

# ROCKY RIVER HIGH SCHOOL

2012 - 2013

## COURSE CATALOG



## **ROCKY RIVER HIGH SCHOOL**

Mrs. Debra M. Bernard, Principal  
Mr. Alan G. Wilhelms, Associate Principal  
Mr. Jeffrey K. Schultz, Assistant Principal  
Mr. Mark Wagner, Director of Athletics & Activities

### **BOARD OF EDUCATION**

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**Dr. Michael G. Shoaf, Superintendent**  
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### **MISSION STATEMENT**



#### **BELIEFS**

We believe...

- Students are the heart of our purpose.
- Student success requires a partnership among family, school and community.
- A Rocky River education empowers values, inspires curiosity and encourages talents that lead to success.
- High expectations lead to high achievement.
- Lifelong learners thrive as they embrace the changing global society.

Dear Parents and Students:

This Course Catalog is developed each year to provide students and their families the necessary information for making sound choices in course selection. We hope that we have adequately described our courses, credit values, any prerequisites, and relevant recommendations in a manner that will enable students and parents to make challenging but appropriate course selections. We have included a work page drafting a Four-Year Plan of Study. Information has also been included to address Graduation Requirements, Athletic Eligibility, and a host of other related topics.

Our master schedule of classes and teacher assignments are student driven. Courses are offered and teaching staff assigned to courses based on the number of students requesting them. Schedule changes can seriously impact class size and course offerings. Please understand before selections are made that schedule changes will only be approved by the administration if it is determined that a student was misplaced, a technical error was made during data entry, a master schedule change closed or changed a course, a failed course must be rescheduled or a summer school course must be replaced. **It is crucial that each family give careful consideration to courses a student must take in high school to meet graduation requirements, prepare for post-secondary education, and/or the world of work.**

Please take time to ask questions of our professional staff to make the best, most informed decisions. We stand ready to assist each family with charting a course for success. It is my wish that each school year brings many new and exciting opportunities for every student at Rocky River High School. Many opportunities are found in this Course Catalog. Course selection can be a stressful time for students and parents. Communication is a critical component in this process, and can help make the process much easier and more enjoyable.

Good luck as you embark on this most important task, and, if necessary, please contact specific staff for assistance.

Sincerely,

*Debra M. Bernard*

Debra M. Bernard  
Principal

## **BOARD POLICY 2230**

The philosophy of the Board of Education emphasizes that the professional staff will make recommendations as set forth in Guideline 211A for specific course selections for a student. Parent and student involvement is also an integral part of the course selection process. After the input of the professional staff is considered and the course expectations are explained, the parent and student have the final determination as to what the placements will be. During the school year course expectations will not be lowered except for students with disabilities as required by applicable rules and regulations. Appropriate instructional assistance will be provided in a personalized learning environment to help all students in meeting course expectations.

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**Online course catalog available at [www.rrcs.org](http://www.rrcs.org)>Rocky River High School>Forms & Links**

## **BELL SCHEDULE**

### **TEACHERS REPORT BY: 7:45 AM DAILY**

PERIOD 1            7:55 – 8:49 AM    (54 MIN.)

PERIOD 2            8:53 – 9:50 AM    (57 MIN.)

PERIOD 3            9:54 – 10:48 AM   (54 MIN.)

SEMINAR            10:52 – 11:16 AM   (24 MIN.)

PERIOD 4            11:20 – 12:14 PM   (54 MIN.)

#### **Lunch/Study Hall Split for Grades 9 & 10**

4A                    11:20 – 11:45

4B                    11:49 – 12:14

PERIOD 5            12:18 – 1:12 PM   (54 MIN.)

#### **Lunch/Study Hall Split for Grades 9 & 10**

5A                    12:18 – 12:43

5B                    12:47 – 1:12

PERIOD 6            1:16 – 2:10 PM    (54 MIN.)

PERIOD 7            2:14 – 3:08 PM    (54 MIN.)

**PROFESSIONAL LEARNING COMMUNITY**  
**WEDNESDAY IRREGULAR BELL SCHEDULE**

<b>7:45 – 8:45 AM – TEACHER LEARNING TEAM MEETING and * REQUIRED STUDENT GRADE LEVEL MEETING PERIOD</b>
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PERIOD 1            8:55 – 9:40 AM    (45 MIN.)

PERIOD 2            9:44 – 10:32 AM   (48 MIN.)

PERIOD 3            10:36 – 11:21 AM   (45 MIN.)

SEMINAR            11:25 – 11:49 AM   (24 MIN.)

PERIOD 4            11:53 – 12:39 PM   (46 MIN.)

Lunch/Study Hall Split for Grades 9 & 10

4A                    11:53 – 12:14

4B                    12:18 – 12:39

PERIOD 5            12:43 – 1:29 PM    (46 MIN.)

Lunch/Study Hall Split for Grades 9 & 10

5A                    12:43 – 1:04

5B                    1:08 – 1:29

PERIOD 6            1:33 – 2:19 PM    (46 MIN.)

PERIOD 7            2:23 – 3:08 PM    (45 MIN.)



## **GRADUATION REQUIREMENTS and DIPLOMAS**

Students may earn one of two diplomas, a regular diploma or a diploma with honors. The criteria for each are outlined below.

Diplomas will be awarded under the following guidelines:

**1. Regular Diploma:**

- Successful completion of **21 units** of credit and other requirements as set forth by the Ohio Revised Code and the Rocky River Board of Education, which includes passage of all facets of state-mandated testing.
- The OGT (Ohio Graduation Test) is required for graduation and will measure content learned through the end of the 10<sup>th</sup> grade in five areas: reading, writing, mathematics, science and social studies. Students must pass all five sections of the OGT to be eligible to receive a diploma. The OGT is given annually in the spring of the 10<sup>th</sup> grade year.

**2. Diploma with Honors - Refer to grid on Page 10**

**The privilege to participate in the commencement ceremony is extended *only* to those students who have successfully met all requirements mandated for graduation.**

## **ATHLETIC AND INTERSCHOLASTIC CO-CURRICULAR ELIGIBILITY (Ohio High School Athletic Association)**

Athletic eligibility is officially determined by referencing grades earned the previous grading period. **To be eligible for athletic participation, students must be officially enrolled in school and have received passing grades in a minimum of 5 one-credit courses, or the equivalent, in the preceding grading period.**

OHSAA Bylaw, 4-7-3, mandates that students may make a choice of a school when advancing from grade 8 to grade 9. A one year period of ineligibility will occur if a transfer is made at any time after beginning grade 9.

**Exceptions are:**

1. If the parents or legal guardian change residence from one public school district to another;
2. If the Superintendents of both districts enter into a written agreement in order to protect the student's physical and mental well-being;
3. If a school in which the student is enrolled closes.

**References to quarterly grades determine eligibility.** Semester or end-of-year grades may not be used. The OHSAA mandates that an eligible student cannot regain eligibility by attending summer school classes. Changes in athletic eligibility become effective the 5<sup>th</sup> school day following the end of any grading period.

<b>High School Academic Diploma with Honors</b> <i>Students need to fulfill only 7 of the following 8 criteria</i>	
<b>Subject</b>	<b>Criteria</b>
<b>English</b>	<b>4 units</b>
<b>Mathematics</b>	<b>4 units, including Algebra I, Geometry, Algebra II or equivalent and another higher level course or a four-year sequence of courses that contain equivalent content</b>
<b>Science</b>	<b>4 units, including physics and chemistry</b>
<b>Social Studies</b>	<b>4 units</b>
<b>World Language</b>	<b>3 units, including at least 2 units in each language studied</b>
<b>Fine Arts</b>	<b>1 unit</b>
<b>Grade Point Average</b>	<b>3.5 on a 4.0 scale</b>
<b>ACT/SAT Score [excluding scores from the writing sections]*</b>	<b>27 ACT / 1210 SAT</b>

\*Writing sections of either standardized test should not be included in the calculation of this score.

**See next page for Career-Technical Diploma with Honors for Graduating Classes of 2011 and Beyond.**

<b>Career-Technical Diploma with Honors</b> <i>Students need to fulfill only 7 of the following 8 criteria</i>	
<b>Subject</b>	<b>Criteria</b>
<b>English</b>	4 units
<b>Mathematics</b>	4 units, including Algebra I, Geometry, Algebra II or equivalent and another higher level course or a four-year sequence of courses that contain equivalent content
<b>Science</b>	4 units, including physics and chemistry
<b>Social Studies</b>	4 units
<b>World Language</b>	Not counted toward requirements
<b>Fine Arts</b>	Not counted toward requirements
<b>Career-Technical</b>	Now counted in Electives
<b>Electives</b>	4 units of Career-Technical minimum. Program must lead to an industry recognized credential, apprenticeship or be part of an articulated career pathway which can lead to post secondary credit.
<b>Grade Point Average</b>	3.5 on a 4.0 scale
<b>ACT/SAT Score [excluding scores from the writing sections]*</b>	27 ACT / 1210 SAT
<b>Additional Assessment</b>	Achieve the proficiency benchmark established for the appropriate Ohio Career-Technical Competency Assessment or the equivalent

\*Writing sections of either standardized test should not be included in the calculation of this score.

# ELIGIBILITY CRITERIA FOR AWARD OF MERIT

## ELIGIBILITY CRITERIA FOR AWARD OF MERIT

The requirements listed below have been adopted for the "Award of Merit." This certificate will be awarded by the State Board of Education to all those who meet the criteria specified in A and C or B and C below.

**NOTE:** Courses completed prior to ninth grade, taught by a teacher licensed to teach high school, and recognized as high school level work by the local school district Board of Education. Courses that are part of the Post Secondary Education Options Program, also apply to the criteria for the "Award of Merit."

A. ***College Prep Requirements*** – complete the following minimum requirements:

1. English – 4 units (May include 1 unit of fundamentals of speech.)
2. Mathematics – 3 units (Must include 1 unit of algebra and 1 unit of geometry.)
3. Science – 3 units (Must include 2 units from among biology, chemistry, and physics.)
4. Social Studies – 3 units (Must include 2 units of history and 1/2 unit of civics or government.)
5. World Language – 3 units (Must include no less than 2 units of any language for which credit is sought, i.e., 3 units of one language or 2 units each of two languages.)
6. Complete 2 units from one or more of the following, or 2 additional units from one or more of the areas listed A.1 through A.5 above.
  - a. Business
  - b. Computer Science
  - c. Visual or Performing Arts

B. ***Career-Technical Curriculum Requirements***

1. Complete a career technical occupational preparation program
2. Complete the following curriculum requirements
  - a. English – 4 units
  - b. Mathematics – 3 units
  - c. Science – 3 units
  - d. Social Studies – 3 units

*Applied academic credits earned via career-technical education shall apply to the criteria for the "Award of Merit."*

3. Complete 2 units from one or more of the following, or 2 additional units from one or more of the areas listed in B.2 above.
  - a. Business
  - b. Computer Science
  - c. World Language
  - d. Visual or Performing Arts

## **ELIGIBILITY CRITERIA FOR AWARD OF MERIT** *(Continued)*

### **C. *Performance Criteria (applies to both curricula)***

1. Maintain above average attendance for grades 9 through 12 (compared to a rolling four-year state average).
2. Demonstrate outstanding achievement in the curriculum as evidenced by one of the following: earning the equivalent of an overall grade point average of 3.25 on a 4.0 scale for grades 9 through 12; earning the equivalent of an overall grade point average of 3.5 on a 4.0 scale for grades 11 and 12; or ranking in the top 25 percent of the class, whichever is more inclusive.
3. Participate in co-curricular, extracurricular or community activities in accordance with procedures established by the district Board of Education.
4. Demonstrate outstanding citizenship/character traits in accordance with criteria established by the district Board of Education.

## **HONOR ROLLS**

Students may be named to one of two honor rolls for each grading period – “**High Honors**” and “**Honors**”. The criteria are:

**High Honors**     *Grade Point Average (GPA) of 3.75 or higher, quarter grade C- or better and no incomplete grades.*

**Honors**             *Grade Point Average (GPA) of at least 3.00 but less than 3.75, quarter grade C- or better and no incomplete grades.*

\*A student may be added to the honor roll upon completion of an incomplete grade.

## **LEARNING RESOURCE SERVICES**

A variety of support services are extended to students needing assistance to succeed in the regular classroom and are available via the **Learning Resource Center**. Services may include:

- **After School Assistance Program** – students work on homework/project completion and test preparation in basic classes assisted by a tutor.
- **Academic Coaching** – assistance to enable students to become independent learners.
- **English Language Learner** – instruction provided to students whose functional language is one other than English. Major emphasis is placed on oral communication, developing survival language, and usage of standard English.
- **Special Education Programs** – are for students identified as disabled via a formal evaluation.

In addition to direct instruction, Learning Resource Services include diagnosing and prescribing of activities to meet individual student needs, sharing of instructional materials, strategies with classroom teachers, and conferring with teachers, parents, and students. *Requests for Learning Resource Services may be initiated by school personnel through the Intervention Assistance Team (IAT) process.*

# HIGH SCHOOL GRADING POLICY

Grades are quantitative statements reflecting instructor assessment of student performance. Grades represent the degree of mastery of the prescribed curriculum of a given content area or course at a given point in time in a student's educational development. Measurement of a student's performance provides a means for educators to communicate with students and parents. *Grades indicate academic achievement of a student, not necessarily one's ability.* Assessment is to be a daily function so that feedback, both written and verbal, is constant. Grades reflect actual student's academic performance. Parameters include authentic assessments, tests, class work, homework, and class participation. Teachers will follow additional guidelines in the courses of study when determining a grade. Grades are interpreted as follows:

<u>GRADES IN GPA</u>		<u>GRADES NOT IN GPA</u>	
A+	=	Superior	I = Incomplete
A, A-, B+	=	Excellent	P = Passed
B, B-, C+	=	Good	EX = Excused
C, C-, D+	=	Average	WP = Withdrawn Passing
D, D-	=	Below Average	
F	=	Failing	
WF	=	Withdrawn Failing	

In accordance with the Rocky River High School Grading Scale, a student will receive a letter grade and corresponding quality point value for each course based on the percentage earned at the end of each grading period. A non-cumulative GPA based on quality point values is calculated quarterly.

## Rocky River High School Grading Scale

<u>% Range</u>	<u>Grade</u>	<u>Quality Point Value</u>	<u>Quality Point Value Honors/Advanced Placement</u>
100-98	A+	4.0	5.0
97-93	A	4.0	5.0
92-90	A-	3.7	4.7
89-87	B+	3.3	4.3
86-83	B	3.0	4.0
82-80	B-	2.7	3.7
79-77	C+	2.3	3.3
76-73	C	2.0	3.0
72-70	C-	1.7	2.7
69-67	D+	1.3	1.3
66-63	D	1.0	1.0
62-60	D-	0.7	0.7
59-0	F	0.0	0.0

**A revised cumulative GPA is calculated at the end of each school year using the actual credit awarded and the final course letter grade earned. All final grades are maintained on the student's transcript.**

# **HIGH SCHOOL GRADING POLICY (Continued)**

## **Student Attainment of Course Credit**

To earn credit in a **yearlong course**, the student will fulfill **ALL** of the following criteria:

1. Pass a minimum of two of the three grading “opportunities” each semester. In the first semester, those opportunities are the first quarter, second quarter, and midterm examination. Second semester opportunities are third quarter, fourth quarter, and final examination.
2. Earn a minimum of .42 quality points.
3. Maintain compliance with the Board approved Attendance Policy (i.e. students exceeding 26 absences may be withdrawn failing from a course).

**Students not meeting criteria needed to pass a yearlong class will be required to meet with parents, administrator, counselor, and the subject area teacher to determine the appropriate course of action for earning credit. The principal makes the final decision.**

To earn credit in a **semester course**, the student will fulfill **ALL** of the following criteria:

1. Pass a minimum of two of the three grading opportunities in the semester.
2. Earn a minimum of .42 quality points.
3. Maintain compliance with the Board approved Attendance Policy (i.e. students exceeding 13 absences may be withdrawn failing from a course).

**Students not meeting criteria needed to pass a semester class required for graduation will be required to meet with parents, administrator, counselor, and the subject area teacher to determine appropriate course of action for earning credit. The principal makes the final decision.**

**Summer School Courses:** Students ***must*** have approval from their counselor or principal prior to registration for summer school to receive credit for summer school courses. Weighted grades will ***not*** be given for summer school course work.

## **DETERMINATION OF GRADE LEVEL**

Students are assigned to grade levels *based on accumulated academic credits*. The minimum number of credits required for assignment to each grade level, above the 9<sup>th</sup>, is as follows:

<b><u>GRADE</u></b>	<b><u>CREDITS REQUIRED</u></b>
<b>10</b>	<b>5.0</b>
<b>11</b>	<b>10.0</b>
<b>12</b>	<b>15.0</b>

## **SCHEDULE CHANGES**

Once a student selects courses, **schedule changes are discouraged**. In some instances, however, a **legitimate educational reason may exist to suggest or approve a change**.

**To add a course, a student may do so:**

- In place of a study hall.
- If the class is not filled.
- If the “add” takes place during the first 10 days the course meets.
- With approval of the counselor

**A student may NOT drop an elective course before the 10th day the course meets; unless an elective course is added in its place (refer to the conditions stated above “to add a course”).**

**To drop a course a student must:**

1. Obtain a drop form from the counselor.
2. Meet the conditions stated on the drop form, which are:
  - a. Obtain parent signature
  - b. Obtain teacher’s signature after returning books
  - c. Obtain counselor’s signature

In some situations students may be encouraged to remain in a core academic course beyond the first 10 days the course meets. Students operating under such provisions may drop the course, or transfer to a comparable course, prior to the end of the first quarter without consequence. Students who are failing a course and request permission to withdraw after the 1<sup>st</sup> quarter of school are subject to the consequence of having WF (“withdrawn failing”) noted on their transcript for lack of commitment to the course.

**Please Note: when transferring from an Honors/AP course to an academic level course, the student will receive a non-weighted grade.**

## **ADVANCED PLACEMENT**

The *Advanced Placement (AP) Program* of the College Board gives students the opportunity to pursue college-level studies while still in high school and to, possibly, receive Advanced Placement credit upon entering college. AP courses offered are: *AP Computer Science A, AP English Literature and Composition, AP Spanish Language, AP French Language, AP Calculus AB, AP Calculus BC, AP Chemistry, AP Physics B, AP Biology, AP United States Government and AP United States History*. AP tests in other areas are available to selected proficient and prepared students. Students may take the Advanced Placement examination without taking the course; however, this situation is rare. See your respective counselor, AP Coordinator or school website for additional information.

AP examinations are administered at Rocky River High School each year in May. Registration for the examinations takes place in February, at which time the exam fee will be collected by the AP Coordinator. A fee reduction is available when a verifiable need exists.

## **DISTANCE LEARNING**

Rocky River High School is affiliated with NOTA (Northeast Ohio Technology Association). We are part of a consortium of member schools, including Cuyahoga Community College and WVIZ Idea-Stream. As a member of the NOTA consortium of schools, we are able to expand our curriculum offerings. Students enrolled in distance learning coursework will follow the curriculum prescribed by the school and teacher transmitting the lessons and will receive academic credit upon successful completion of the course. A list of specific course offerings is available in the Counseling Office. Students can see their counselor for more specific information.

## **COURSE CREDIT FROM OTHER SCHOOLS**

**Transfer of Credits from Other Schools:** Students transferring to Rocky River from accredited schools during grades 9-12 will have their courses/credits recognized on a Rocky River transcript in an appropriate manner. In light of the fact that there are myriad grading systems and that course offerings vary from school to school; the following guidelines will attempt to ensure fair competition and placement for all students relative to graduation and honors accorded to class rank.

1. Credits will be accepted at face value provided the system is accredited and consistent with the standards set forth by the State of Ohio. (120 hours = 1.00 credit, 60 hours = .50 credit)
2. All courses, *except religion*, will be accepted for credit provided the sending school granted credit as evidenced by an official school transcript. Exceptions may be made by a committee of the High School Principal, Associate and/or Assistant Principal if the course is listed in the Ohio "Procedures for School Evaluation."
3. Grades will be issued according to the grading scale used at the sending school. An exception is relevant for weighted grades, which will only be accepted for courses in which Rocky River offers an honors or AP course. These grades will be evaluated with the appropriate assigned quality points.

4. Grades for honors/AP courses from a sending school that does not have weighted grades *may* be weighted for GPA purposes at Rocky River High School if deemed appropriate by the High School Principal.

## **POST SECONDARY ENROLLMENT OPTIONS**

The *Post Secondary Option* program is intended to provide enhanced opportunities for qualified high school students to experience college level coursework at various colleges and universities. Students may enroll full or part-time for high school and/or college credit. A high school student admitted to a course by a college, university or community college will be expected and required to perform at the same level as the institution's regular students. Academic credit earned via college courses or any combination of high school and college courses cannot exceed a maximum of 7 Carnegie units for the year.

### **Program Options:**

**Option A:** Permits eligible students to enroll in college courses for college credit only. Students electing this option will be required to pay all costs incurred, including tuition, books, materials, or fees.

**Option B:** Permits eligible students to enroll in college courses for college and high school graduation credit. Students electing this option will not be required to pay for tuition, books, materials, or fees associated with such courses.

For students enrolling under Option B, reimbursement is contingent upon completion of each course for which credit is offered toward fulfillment of graduation requirements for the high school. Failure to complete the course, other than for reasons generally accepted by the school district, will result in all financial obligations defaulting to the student or his/her parent.

- A student or his/her parent shall inform Rocky River High School Guidance Office by March 31<sup>st</sup> of the student's "intent to participate" in this program during the following school year. This deadline is state mandated.

- The student and his/her parent must sign a Post Secondary Enrollment Option form that indicates they have participated in a counseling session regarding the program and that they understand the responsibilities they must assume in the Post Secondary Enrollment Options Program.

**Final grades earned in PSEO courses will post to the high school transcript and will be included in the calculation of grade point average and class rank.** *Grades may be weighted for courses that are determined to be equivalent to or higher than Rocky River High School Honors/AP courses.*

***Principal approval is required prior to the start of the course. Prior approval must be granted by the principal for students to receive credit for any educational option. See your counselor for details and required documentation.*** The amount of credit to be granted and whether the grade will be weighted will be determined by a committee consisting of the principal, counselor and appropriate subject area coordinator.

## **INDEPENDENT STUDY**

*Independent Study* is an activity involving advanced, in-depth work by an individual student under the direction of a certificated member of the school staff. The student has the opportunity to pursue an interest ***not offered in the curriculum on his or her own time***. Any high school student may participate in independent study. Any area of a student's interest, which is not offered in the course catalog, or not offered that year, may qualify for an independent study project. Once a student decides to enter into the independent study the following steps are to be followed:

1. Meet with his/her counselor to clarify and verify that the eligibility criteria for independent study are met. An *Independent Study Contract* form signed by the counselor will be given to the student.
2. Select a teacher who is willing to be the teacher advisor for the independent study.
3. Complete, with the identified teacher advisor, the *Independent Study Contract*. The contract will include: (a) title of the independent study; (b) instructional objectives and a syllabus; (c) outline, including major instructional activities, materials, and environments; (d) description or criteria and methods for assessing the student's performance; (e) signature of the student; (f) signature of parent(s)/guardian(s), (g) signature of advisor.
4. Return the completed *Independent Study Contract* to the counselor, who will submit it to the principal and superintendent for approval. **Approval by the principal and superintendent must be secured no later than 10 days after the course start date.**
5. Meet regularly with the teacher advisor. Any revisions in the original contract must have the approval of the teacher advisor, counselor, and principal.
6. Complete the requirements of the contract, receive an evaluation from the teacher advisor, and submit the contract to the principal for final approval to receive the appropriate credit and grade.
7. AP courses may not be taken as independent study if the course is offered during the school year and, in cases where an AP course is taken via independent study, a weighted grade may be given.

## **CREDIT FLEXIBILITY**

### **CREDIT FLEXIBILITY PROGRAM**

Flexible credit applies to any alternative coursework, custom learning activity, assessment, and/or performance that demonstrate proficiency qualified to be awarded equivalent credit toward graduation as applied for and approved in advance by the district. Approved credit awarded will be posted on the student's transcript, calculated into the student's grade point average (GPA), and counted as required graduation credit in the related subject area or as an elective.

The school district communicates the Credit Flexibility Program Information and Guidelines annually on the district website and in the RRHS course catalog and student handbook. If interested, a student must initiate the request to take a course or earn credit via Credit Flexibility by first meeting with his or her counselor and then successfully completing the application process.

Any student with high school status can earn credit toward graduation in three ways, or a combination thereof:

1. Traditional coursework
2. Credit by assessment
3. Board approved educational options (i.e., dual enrollment, post-secondary enrollment, independent study, alternate coursework, custom learning activity)

# FOUR-YEAR PLAN FOR HIGH SCHOOL PROGRAM

FRESHMAN YEAR		SOPHOMORE YEAR	
<u>Semester 1</u>	<u>Semester 2</u>	<u>Semester 1</u>	<u>Semester 2</u>

JUNIOR YEAR		SENIOR YEAR	
<u>Semester 1</u>	<u>Semester 2</u>	<u>Semester 1</u>	<u>Semester 2</u>

## **ART – VISUAL ARTS**

The Visual Arts Department is open to all students who wish to learn art for personal interest or as a potential career. Successful completion of homework assignments is considered an integral part of each course.

### **EXPLORATORY ART**

**#1621**

**Grade Level: 10-12**

**Credit: .50**

**Length: 1 Semester**

**Prerequisites: None**

**Fee: \$30.00**

This introductory class features the exploration of various art media (e.g., acrylic, water color, drawing, etc.) via art history and the elements of art and principles of design elements such as pattern, lines and shape. **This class is a prerequisite for other art classes.** Students will be expected to provide additional supplies.

### **DRAWING**

**#1622**

**Grade Level: 9-12**

**Credit: .50**

**Length: 1 Semester**

**Prerequisites: #1621 or Instructor Approval**

**Fee: \$30.00**

This class is for the student who loves to draw! Students will study different drawing techniques – lines, stipple and value shading – while learning some “tricks of the trade.” Students will draw and design using pencils, pastels, pen and ink, and will discover that pencils are not the only drawing utensils. Projects will be required. Students will be expected to provide additional supplies.

### **PAINTING**

**#1623**

**Grade Level: 9-12**

**Credit: .50**

**Length: 1 Semester**

**Prerequisites: #1621 or Instructor Approval**

**Fee: \$30.00**

A great class in which to learn how to paint! Students will learn to work with several different types of media including acrylic, watercolor, pastels and how to use a variety of painting techniques. Students will learn how to mix, blend and apply paint on a variety of surfaces. Students will be expected to provide additional supplies.

## **ART – VISUAL ARTS (Continued)**

### **SCULPTURE**

**#1625**

**Grade Level: 10-12**

**Credit: .50**

**Length: 1 Semester**

**Prerequisites: 1 Semester of Art**

**Fee: \$30.00**

This course is an introduction to the principles, history and methods required to create three-dimensional forms. Paper, clay, metal, fabric, wood, plaster and recycled materials are some of the media that may be used as the basis for sculptural designs. Students will be expected to provide additional materials and tools for personal use.

### **CERAMICS 1**

**#1626**

**Grade Level: 10-12**

**Credit: .50**

**Length: 1 Semester**

**Prerequisites: None**

**Fee: \$30.00**

This course is an introduction to ceramics. Topics will include clay preparation, hand built pottery, surface decoration, glazes and the firing of clay. The studio emphasis will be enriched with content from art history. Students will be required to provide additional materials and tools for personal use.

### **ADVANCED CERAMICS 2/3**

**#1627**

**Grade Level: 10-12**

**Credit: .50**

**Length: 1 Semester**

**Prerequisites: Ceramics 1 (B Average or Above)**

**Fee: \$30.00**

Advanced Ceramics 2/3 students will create original works of art that demonstrate creativity, increased complexity and skill and an in-depth understanding of the media and processes. This course will build upon the knowledge and skill learned in previous ceramic courses. More complex and varied methods of hand built and wheel thrown construction will be applied. Students will develop their abilities in hand building, wheel throwing, ceramic sculpture, glazing and surface treatment. This course will include historic as well as contemporary approaches to ceramics. Students will be required to participate in individual and class critiques.

## **ART – VISUAL ARTS (Continued)**

### **ADVANCED ART**

**#1641 (Semester 1), #1642 (Semester 2)**

**Grade Level: 11-12**

**Credit: .50**

**Length: 1 Semester**

**Prerequisites: 4 Semesters of Art (Successful completion of Exploratory Art, Drawing I, Painting I and one additional art course. B average or above and Teacher Recommendation.**

**Fee: \$30.00**

Advanced Art is a two-semester course for juniors and seniors who wish to major in art in college and need to create a portfolio. Emphasis is on drawing and painting but there are opportunities for in-depth study in other media. Art appreciation will be offered as appropriate to the media being explored. Trips (field trips and on your own) to art galleries and museums will be required. Students will be required to participate in written and oral art critiques and to complete daily sketchbook assignments. Students will be expected to provide additional tools for personal use.

### **ADVANCED DRAWING AND PAINTING**

**#1644**

**Grade Level: 11-12**

**Credit: .50**

**Length: 1 Semester**

**Prerequisites: Successful Completion of Drawing 1 and Painting 1 (B Average or Above)**

**Fee: \$30.00**

This course focuses on the continuation of two-dimensional designs with emphasis on improving drawing and painting techniques and observational skills. Students will create artworks that demonstrate understanding of materials, processes, tools, medias, techniques, composition and available technology. They will use the elements of art and the principles of composition and design to communicate their ideas in a variety of visual forms. Students will be required to participate in art critiques and to complete sketchbook assignments. Students will be expected to provide additional supplies for personal use.

# **BUSINESS**

Today we live in an advanced and highly technological society. More than ever before, the study of business and its economic environment is essential for all citizens. Rocky River's Business Education Program is dedicated to helping students develop a comprehension of and an appreciation for, our American business system and the economic setting in which it functions.

## **BUSINESS TODAY**

**#1420**

**Grade Level: 10-12**

**Credit: .50**

**Length: 1 Semester**

**Prerequisites: None**

**Fee: None**

Business Today is designed to make the student aware that business is a creative, competitive activity that has always played an important part in shaping our global society. Business Today faces the challenge of adapting itself to the rapid changes occurring in both social and physical environments of business today. It not only introduces basic business concepts and principles but demonstrates application of these concepts through a student operated company. In addition, the course will include speakers from the business community, field trips to local companies and a weekly overview of various business media. There will be an emphasis on pertinent topics including entrepreneurship, globalization, ethics and business law. The use and application of technology will be inherent in this course.

## **BUSINESS MANAGEMENT**

**#1421**

**Grade Level: 10-12**

**Credit: .50**

**Length: 1 Semester**

**Prerequisites: None**

**Fee: None**

Business Management is designed to enable the students to realize that key elements are necessary for a business to sustain long-term superior performance or strategic competitive advantage in a global marketplace. This course elaborates on the principles of business management and applies these principles through the integration of such organizations as Junior Achievement. In addition, students will research information on various topics (e.g., human resource management, total quality management, financial management, production/marketing management, information/communication systems and various business cultures). Pertinent management topics will be emphasized (e.g., globalization, ethics, leadership and law). Use and application of technology will be inherent in this course.

## **BUSINESS (Continued)**

### **FINANCE**

**#1423**

**Grade Level: 10-12**

**Credit: .50**

**Length: 1 Semester**

**Prerequisites: None**

**Fee: None**

This course is designed to help students understand the various types of both business related and personal finance that they will use as a citizen, consumer, investor and taxpayer. Units of study will include the topics of: budgeting, banking, tax deferred savings vehicles (e.g., pension plans and annuities) understanding the stock market, stocks and bonds and other financial instruments, money management, insurance and credit. Speakers from the business world will be used to augment the content and applications. Use and application of technology will be inherent in this course.

### **MARKETING**

**#1422**

**Grade Level: 10-12**

**Credit: .50**

**Length: 1 Semester**

**Prerequisites: None**

**Fee: None**

Marketing is the study of the roles of the retailer and the consumer in today's economy. This course presents the essential business concepts, principles and terminology required to understand basic marketing practices. Students will understand and apply principles of promotion, distribution, product development, state of the marketing environment and sources of information relevant to making sound business decisions. Use and application of technology will be inherent in this course.

# **COMPUTER EDUCATION/TECHNOLOGY**

Computers are the center of highly informational and technological societies. Most colleges and businesses require some kind of computer experience. The more you know, the more prepared you will be to enter the workforce. The computer classes offered at Rocky River High School will help prepare students for both college and careers. These classes also engage students in critical 21<sup>st</sup> century skills such as communication, collaboration, critical thinking, creativity, and problem solving.

## **PROGRAMMING CONCEPTS**

**#1190**

**Grade Level: 9-12**

**Credit: .50**

**Length: 1 Semester**

**Prerequisites: Instructor Approval**

**Fee: \$5.00**

This course is designed for students interested in exploring computer programming. Students will learn basic programming concepts, as well as, how to use and apply the problem solving method. Concepts in this class will be taught using software designed specifically with the beginning programmer in mind.

## **TECHNOLOGY APPLICATIONS TODAY**

**#1191**

**Grade Level: 9-12**

**Credit: .50**

**Length: 1 Semester**

**Prerequisites: None**

**Fee: \$5.00**

This course will provide students with an introduction to a variety of business-related software programs. Students will develop computer technology skills in Internet safety and research, word processing, spreadsheet, database, and presentation software. Additionally, students will be introduced to basic photo editing, movie making, and portfolio building.

## **ADVANCED PROGRAMMING**

**#1192**

**Grade Level: 10-12**

**Credit: .50**

**Length: 1 Semester**

**Prerequisites: Programming Concepts or Instructor Approval**

**Fee: \$5.00**

Students will enhance skills learned in Programming Concepts using the Java programming language. This class is meant for the student that is interested in programming as a college major/career. Students should be highly motivated and have excellent mathematical and problem solving skills.

## **COMPUTER EDUCATION/TECHNOLOGY *(Continued)***

### **AP COMPUTER SCIENCE A**

**#1193**

**Grade Level: 11-12**

**Credit: .50**

**Length: 1 Semester**

**Prerequisites: Advanced Programming or Instructor Approval**

**Fee: \$5.00**

This course offers students the opportunity to receive greater preparation and experience for the Advanced Placement examination. Students will independently pursue the Grid World case study in Java.

### **GRAPHIC DESIGN**

**#1197**

**Grade Level: 9-12**

**Credit: .50**

**Length: 1 Semester**

**Prerequisites: None**

**Fee: \$5.00**

Students will explore digital design using Adobe Creative Suite software such as Photoshop, Illustrator, and Indesign. Units of instruction will focus on digital photography, typography, image manipulation, drawing, and page layout. This class is designed for both the artist and the non-artist.

### **WEB DESIGN**

**#1210**

**Grade Level: 9-12**

**Credit: .50**

**Length: 1 Semester**

**Prerequisites: Teacher Approval**

**Fee: \$5.00**

This course will introduce students to software used in web design. Students will learn to create websites using HTML, CSS, and Dreamweaver. Additionally, students will be challenged to study other web design tools, such as JavaScript, Flash, and Fireworks.

# **ENGLISH**

English courses are core to the education of every student and concentrate on communication skills: reading, writing, listening, and speaking. Students are required to take four, full-year courses designed to reinforce previous skills and progressively introduce new skills to move student forward through a clearly defined, articulated program. The goal of this program is to help students reach their highest potential of performance in reading, composition, analysis and speaking.

While a student must complete four units of English (including English 9, 10, 11, and 12). Students *may elect* more than one credit of English per school year and are encouraged to do so, if interested in Journalism, Broadcasting, or Drama.

NOTE: Specific fees are not charged, but there may be costs for purchase of necessary supplemental materials (e.g. workbooks and paperback books).

## **COURSES OFFERED**

**English 9, Honors English 9, English 10, Honors English 10, English 11, Honors English 11, English 12, English 1010/1020/College Partnership, AP English Literature and Composition, Broadcast Journalism, Drama, Introduction to Journalism, Journalism 1, Journalism 2, Reading**

### **ENGLISH 9**

**#1011**

**Grade Level: 9**

**Credit: 1.00**

**Length: 1 Year**

**Prerequisites: None**

**Fee: None**

English 9 is a required course for all freshmen except those enrolled in English 9 (Honors). It includes the study of grammar and composition, poetry, selected novels, short stories, drama, public speaking, and vocabulary. The completion of a documented research paper/project is a course requirement. A specific fee is not charged, but there will be costs involved for purchase of necessary supplemental materials. **Summer reading is required.**

## **ENGLISH (Continued)**

### **HONORS ENGLISH 9**

**#1012**

**Grade Level: 9**

**Credit: 1.00**

**Length: 1 Year**

**Requirements: English 8 Honors (B average or above)**

**Fee: None**

Students enrolling in Honors English 9 must possess a strong work ethic and are expected to be thorough and complete pre-requisites in preparation of all work by specified deadlines; therefore, self-motivation and initiative are critical. The nature of study is more in-depth than English 9 and requires students to be proficient in reading, writing, and critical reasoning skills. Students will be required to develop writing skills through grammar, vocabulary and style, enhance their verbal ability through class discussions, and develop their interests to conduct individualized readings and literary projects. The completion of a documented literary research paper is a course requirement. A specific course fee is not charged, but there will be costs involved for the purchase of necessary supplemental materials.

**Summer reading and writing are required.**

### **ENGLISH 10**

**#1014**

**Grade Level: 10**

**Credit: 1.00**

**Length: 1 Year**

**Prerequisites: English 9**

**Fee: None**

English 10 is required of all sophomores except those enrolled in English 10 Honors. Literary materials are organized around the studies of four genres: short story, poetry, drama, and the novel, and concurrent units will encompass the study of grammar usage, vocabulary, spelling, and mechanics which students will apply to competently developed and organized writing assignments. The completion of a documented research paper is a course requirement. A specific fee is not charged, but there will be costs involved for purchase of necessary supplemental materials. **Summer reading is required.**

## **ENGLISH (Continued)**

### **HONORS ENGLISH 10**

**#1015**

**Grade Level: 10**

**Credit: 1.00**

**Length: 1 Year**

**Requirements: English 9 Honors (B average or above)**

**Fee: None**

Students who select Honors English 10 should have displayed in Honors English 9 a strong verbal ability, competency with intensive individualized reading, strong expository writing skills, originality in creative writing, and eager interest and involvement in class discussions. Students will read 5-6 major classical works of literature selected from great American and European writers. In addition, a wide and varied collection of shorter fiction and poetry will be included to supplement and enrich the major works. This world of fiction is the source from which students select examples and details to prove generalizations they make in the many expository themes they write. Other composition skills emphasized include thesis development, organizational techniques, thematic structure, incorporation of new higher level vocabulary, and a dynamic knowledge of grammar. A documented research paper based on additional titles is required. A specific fee is not charged, but there will be costs involved for purchase of necessary supplemental materials. **Summer reading and writing are required.**

### **ENGLISH 11**

**#1017**

**Grade Level: 11**

**Credit: 1.00**

**Length: 1 Year**

**Prerequisites: English 10**

**Fee: None**

English 11 is required for all juniors except those in English 11 Honors. The course, a study of American literature, examines the founding, growth, and changes of the American culture and the heritage it has produced and students are challenged to think seriously about their culture and heritage and to effectively articulate their ideas both verbally and in writing. Students are challenged to think and write clearly, and become more effective writers through application of grammar skills, syntax, and vocabulary. Students study the works of notable American authors, consider the language, characters, action and theme of the particular work, and evaluate its relation both to contemporary times as well as to the era in which it was written. The completion of a documented research paper is a course requirement. A specific fee is not charged, but there will be costs involved for purchase of necessary supplemental materials. **Summer reading and writing are required.**

## **ENGLISH (Continued)**

### **HONORS ENGLISH 11**

**#1018**

**Grade Level: 11**

**Credit: 1.00**

**Length: 1 Year**

**Requirements: English 10 Honors (B average or above)**

**Fee: None**

English 11 Honors is built upon the foundation established in English 9 Honors and English 10 Honors while preparing students for AP English Literature and Composition. A strong work ethic and proficient level of reading and writing skills are essential requirements to be successful in this course. A chronological analysis of American literature serves as the means by which students gain an appreciation for our nation's literary heritage while becoming sophisticated in the critical examination of its subtleties and nuances. Clarity, precision, depth, organization, and logic are stressed when analyzing the literature through the writing process. A documented literary research paper is a course requirement. A specific fee is not charged, but there will be costs involved for the purchase of necessary supplemental materials. **Summer reading and writing are required.**

### **ENGLISH 12**

**#1020**

**Grade Level: 12**

**Credit: 1.00**

**Length: 1 Year**

**Prerequisites: English 11**

**Fee: None**

Literature for this course consists of modern or classical drama, novels, poetry, short stories, and/or essays from different nations and cultures. Some of the readings function as a basis for developing skills in expository writing and effective language skills. The course reinforces the elements of vocabulary, grammar, composition, literature, and logic which are all to be applied in a fully documented, required research paper. A specific fee is not charged, but there will be costs involved for the purchase of necessary supplemental materials. **Summer reading and writing are required.**

## **ENGLISH (Continued)**

### **ENGLISH 1010 and 1020/COLLEGE PARTNERSHIP**

**#1024**

**Grade Level: 12**

**Credit: 1.00**

**Length: 1 Year**

**Requirement: Acceptance to Tri-C as a PSEOP student; Cumulative GPA 3.0 and a Cumulative 3.0 in English.**

**Fee: None**

This course includes *all* components of English 12 (e.g., summer reading, vocabulary, grammar study, and a speech). In addition, during the first semester the student will write several 1,000-word essays that include the following: analyzing a text through the lens of a theory or concept, synthesizing multiple readings, and using literary craft and theory to interpret short pieces of literature. Activities in the second semester include writing a text analysis, an argumentative research paper, and a literary analysis of a novel. Students earn three college credits per semester.

### **AP ENGLISH LITERATURE AND COMPOSITION**

**#1021**

**Grade Level: 12**

**Credit: 1.00**

**Length: 1 Year**

**Requirements: English 11 Honors (B average or above)**

**Fee: None**

The Advanced Placement (AP) English course, the most rigorous literature and writing course Rocky River High School has to offer is designed around works typically found in the sophomore year of the college curriculum. Through speaking, listening, reading, thinking and writing. Students become more aware of the resources of language connotation, metaphor, syntax, and tone and how the use of language has been manipulated over time to suit author purpose. The study and practice of reading and writing develops a deep and working understanding of the use of characteristic modes of discourse and various rhetorical strategies. Writing assignments focus largely on critical analyses of literature, a process that enables learners to write with honest and effective language and to organize ideas in a clear, coherent, and persuasive way. The concentration in reading emphasizes careful, intensive study of representative and challenging works of recognized literary merit from several genres and periods – literary examples which are worthy of scrutiny for their complexity and richness in thought and language. This reading list is modified yearly based on the student group to ensure the richest and most effective learning experience for all students. Study includes the structure, the meaning, the values, and the works' relationships to contemporary experience as well as to the times in which they were written. Students who take the Advanced Placement examination in May may receive both college credit and advanced placement in college courses. A fully documented research paper is required. A specific fee is not charged, but there will be costs involved for purchase of necessary supplemental materials. **Summer reading and writing are required.**

## **ENGLISH ELECTIVES**

### **DRAMA**

**#1027**

**Grade Level: 10-12**

**Credit: .50**

**Length: 1 Semester**

**Prerequisites: None**

**Fee: None**

Drama is an elective course open to students in grades 10-12. The course serves as an introduction to theater with a strong emphasis on the student as actor. The physical elements of acting will be introduced through exercises in pantomime, improvisation, stage business, by-play and blocking. The vocal qualities of an actor will be stressed through the study of inflection, enunciation, projection, line interpretation, and stage voices. Self-analysis, traditional approaches to acting (both Method and Technique), and the art of realism will be examined to develop the emotional reality of a character. Monologues, duet scenes (both comedic and dramatic) and ensemble pieces, including Children's Theater, will be used throughout the course to develop these skills. Script analysis, scene writing and technical theater elements will be introduced. Theater terms will be included. Public performances and guest speakers/performers will be included whenever possible.

### **READING**

**#1041**

**Grade Level: 9-12**

**Credit: .50**

**Length: 1 Semester**

**Prerequisites: Middle School Teacher Recommendation**

**Fee: None**

This course is required for students who have not yet passed the State-mandated exam in reading and is suggested for those who need to improve basic reading skills. This course will include diagnostic and prescriptive teaching.

### **BROADCAST JOURNALISM**

**#1032**

**Grade Level: 10-12**

**Credit: .50**

**Length: 1 Semester**

**Prerequisites: None**

**Fee: None**

This survey of radio and TV broadcasting includes units on other mass media and advertising. Students will design ads, star in, direct or produce a radio or TV news show, write and perform commercials, and produce a 5-10 minute media-related production. Experts in various media will, on occasion, address the class.

After an initial study of broadcasting history and technique, the class will produce the weekly "River Current" show on cable TV's community channel. The class will be divided into two announcer/producer groups and one technical crew. Participation outside of class time is required. Instructor approval for enrollment is required.

## **ENGLISH ELECTIVES (Continued)**

### **INTRODUCTION TO JOURNALISM**

**#1034**

**Grade Level:** 9-12

**Credit:** 1.00

**Length:** 1 Year

**Requirement:** English 8 Teacher Recommendation

**Fee:** None

Students will learn and apply journalistic skills including writing stories, captions and headlines, taking and cropping photos, creating layouts, interviewing various people, creating, distributing and analyzing surveys, and using desktop publishing. The curriculum will include producing portions of the yearbook and submitting stories and photos to the yearbook and newspaper for publication. This is a prerequisite to the Yearbook and Newspaper classes.

### **JOURNALISM 1 (Yearbook)**

**#1035**

**Grade Level:** 10-12

**Credit:** 1.00

**Length:** 1 Year

**Prerequisites:** English Teacher Recommendation; Intro to Journalism or Instructor Approval

**Fee:** None

Students will be responsible for the entire production of the annual high school yearbook including content selection; interviewing; writing stories, headlines and captions; taking, selecting and cropping photos; designing layouts; and using the program InDesign to generate the yearbook. Students will become familiar with and practice responsible journalism. Students will sell ads for the publication as part of the financial responsibility. *Also, students will be asked to comply with a "Performance Expectation" contract.*

### **JOURNALISM 2 (Newspaper)**

**#1036**

**Grade Level:** 10-12

**Credit:** 1.00

**Length:** 1 Year

**Prerequisites:** Introduction to Journalism or Instructor Approval

**Fee:** None

This course is designed as a basic introduction to the techniques of journalism writing and ethical reporting. Students will complete a variety of writing assignments including news writing, feature writing, sports writing, and editorial writing. Students will be responsible for the entire production of the high school newspaper using the computer program InDesign. Students will also become familiar with and practice responsible journalism. Students are expected to sell two ads for the publication as part of the financial responsibility.

## **HEALTH and FITNESS EDUCATION**

Health Education promotes the development of students' understanding, which, through application of good health practices, contribute to healthful living in modern society. Fitness Education promotes the development of students' bodies and minds so they may enjoy physical activities and fitness throughout their lives.

**Fitness Education (one full year for .50 credit) and Health (1 semester at .50 credit) are required for graduation.** A swimming element must be completed within the fitness education course.

### **FITNESS**

**#1918**

**Grade Level: 9-12**

**Credit: .25/.50**

**Length: Semester/Year**

**Requirements: 2 Semesters**

**Fee: None**

Two semesters of this course are required for graduation. It will focus on lifetime activities, team sports and other activities and skills related to developing and maintaining personal fitness of mind and body. Introduction to swimming is a requirement of this course. **(ALL STUDENTS ARE ENCOURAGED TO TAKE FITNESS IN GRADE 9. EXCEPTIONS MAY OCCUR. SEE YOUR SCHOOL COUNSELOR.)**

### **FIT (CONDITIONING)**

**#1902**

**Grade Level: 10-12**

**Credit: .25**

**Length: 1 Semester**

**Prerequisites: Fitness**

**Fee: \$5.00 for Training Log**

Students will find this course to be fun, interesting and purposeful. A variety of activities will be experienced including the five components of fitness: aerobic endurance, muscular endurance, body composition, muscular strengthening and flexibility. Students should find greater personal body awareness and improved body composition by taking this course.

***This is an elective course and does not count toward graduation requirement in the area of Health and Fitness Education.***

## **HEALTH and FITNESS EDUCATION (Continued)**

### **HEALTH EDUCATION**

**#1920**

**Grade Level: 10**

**Credit: .50**

**Length: 1 Semester**

**Prerequisites: None**

**Fee: None**

Health Education provides students with information and experiences designed to develop understanding of human growth and development, appropriate health practices, family living, and health responsibilities in order that they apply sound health practices in daily living. Units covered include studies of anatomy and physiology, first aid, and CPR, drug use, disease, and personal health practices.

*All students are encouraged to take Health in 10<sup>th</sup> grade.*

### **EXERCISE SCIENCE**

**#1928**

**Grade Level: 10-12**

**Credit: .50**

**Length: 1 Semester**

**Prerequisites: Health and Teacher Recommendation**

**Fee: Cost of Materials Used**

This course is available to students with a strong interest in anatomy and physiology with specific application to exercise, sports, and recreational leisure activities. Concepts will include the study of acute and chronic adaptations to exercise and the means by which exercise may prevent injuries or illnesses. Students will evaluate health behaviors, risk factors, and motivations for modifying negative health habits. Students will acquire basic knowledge and skills in the areas of human anatomy and physiology, exercise and conditioning, nutrition, pharmacology, and professional health care responsibilities. Interested students may pursue this course for information to enhance his/her overall health and well-being or in preparation for possible careers in: exercise science/physiology, pre-medicine, athletic training, physical therapy, medicine, nursing, personal trainer, research, biomechanics, etc. Basic first aid and CPR will be included in the course.

*This is an elective course and does not count toward graduation requirement in the area of Health and Fitness Education.*

# **FAMILY AND CONSUMER SCIENCES**

The study of family and consumer sciences plays a vital role in helping to develop students who are ready to enter into life activities in a competent and effective way. As the complexities of life increase, it is imperative that students value knowledge and skills in this realm to become lifelong learners, citizens, consumers and family members. Family and Consumer Sciences provides appropriate learning experiences for all students who will be taking their place in society.

## **CAREER AND LIFE PLANNING**

**#1721**

**Grade Level: 9**

**Credit: .50**

**Length: 1 Semester**

**Prerequisites: None**

**Fee: None**

Career and Life Planning is designed to help students develop the skills necessary for living independently after high school. Topics included in this course will be building a strong foundation for the student's self-esteem, building good relationships with friends and family, goal setting, stress management, and decision making. Other life lessons that will be taught are education and career choices, money management, nutrition and health, and clothing maintenance.

## **CHILD DEVELOPMENT**

**#1728**

**Grade Level: 10-12**

**Credit: .50**

**Length: 1 Semester**

**Prerequisites: None**

**Fee: \$6.00**

Child Development is designed to help students learn the responsibilities of raising and nurturing children. The course will focus on learning about children from birth to four years of age. Topics included in this course will be readiness for parenthood, parenting roles and responsibilities, planning a future family, prenatal development, birth, how children grow and learn and building positive parent-child relationships. The course will also explore careers involving the care and education of children. The course will include the planning and operation of a play school designed for three and four year olds.

## **FAMILY AND CONSUMER SCIENCES (Continued)**

### **INDEPENDENT LIVING**

**#1722**

**Grade Level: 10-12**

**Credit: .50**

**Length: 1 Semester**

**Prerequisites: None**

**Fee: \$10.00**

Independent Living is designed to help students develop the skills necessary for living independently following graduation. Included in this course will be meal planning and preparation, nutrition and health, money management, finding and furnishing a place to live, selection and maintenance of clothing, basic sewing skills, job-hunting, and personal and social relationships. There will be additional costs involved for the purchase of necessary supplemental materials.

### **JUNIOR/SENIOR MENTORING**

**#0128**

**Grade Level: 11-12**

**Credit: .50**

**Length: 1 Semester**

**Prerequisites: Application Process**

**Fee: None**

A unique mentoring program that allows selected junior and senior students to mentor incoming freshmen. Mentoring occurs daily during a structured, 24 minute class period. The goals of the program are for freshmen to experience academic success, to develop life skills and to make a positive social adjustment to Rocky River High School.

### **SERVICE LEARNING**

**#1725**

**Grade Level: 10-12**

**Credit: .50**

**Length: 1 Semester**

**Prerequisites: None**

**Fee: \$20.00**

Service Learning is designed to help students explore local and global issues about which they are concerned and discover ways some of these issues may be addressed. Service Learning will provide students with hands-on experience in the real world through student-directed service learning projects that will fill a need in the school and/or the community. Through reflection activities students will be given the opportunity to understand what was learned and experienced and how the community was benefited. Service Learning is dedicated to developing civic responsibility through active community involvement.

# MATHEMATICS

Most current occupations require more mathematics now than ever before, and future occupations will almost certainly demand thinking and analysis often fostered by the study of mathematics. The mathematics curriculum provides opportunities to master basic mathematical skills, prepare for future study in the field and begin the study of college-level mathematics.

Students are recommended for courses that will help them optimize their potential and performance. ***Students planning to attend college should take three (3) or more courses including: Algebra 1, Geometry, and Algebra 2.*** The following courses are available in the mathematics department. (Careful attention should be given to prerequisites).

## COURSES OFFERED

**Integrated Mathematics 1, Integrated Mathematics 2, Integrated Mathematics 3, Algebra 1, Algebra 2, Algebra 2 (Honors), Geometry, Geometry (Honors), Pre-Calculus, Pre-Calculus (Honors), AP Calculus AB, AP Calculus BC, College Algebra with Trigonometry, Introduction to Differentiated Calculus & Statistics, Math 1521 and 1580/ College Partnership**

A student may not enroll in a mathematics course if the content duplicates the content of a previously completed mathematics course. It is recommended a student earn at least a “C” in each college preparatory mathematics course in order to advance through the curriculum.

**\*All students enrolled in mathematics coursework are required to own a graphing calculator for school and home use. The suggested model is the TI-84 Plus.**

### **ALGEBRA 1**

**#1220**

**Grade Level: 9-12**

**Credit: 1.00**

**Length: 1 Year**

**Prerequisites: None**

**Fee: None**

Algebra 1 provides the foundation for more advanced mathematics. The real-life value of algebra as a problem-solving tool is a major theme stressed throughout the course. Technology is used to investigate algebra by giving concepts visual dimension, and to verify findings.

## **MATHEMATICS (Continued)**

### **ALGEBRA 2**

#1225

Grade Level: **11-12**

Credit: **1.00**

Length: **1 Year**

Prerequisites: **Algebra 1**

Fee: **None**

Algebra 2 is designed to build on the student's background in solving open sentences (both equations and inequalities, one variable and two variables) and simplifying expressions to solve quadratic equations and exponential equations. Functions, complex numbers, arithmetic and geometric progressions are introduced.

### **HONORS ALGEBRA 2**

#1230

Grade Level: **10**

Credit: **1.00**

Length: **1 Year**

Prerequisites: **Honors Geometry**

Fee: **None**

This course features traditional Algebra 2 course content; including: solving open sentences, simplifying expressions to solve quadratic equations, quadratic systems, radical equations, logarithmic equations, and exponential equations. The course emphasizes problem solving and critical thinking skills.

### **GEOMETRY**

#1235

Grade Level: **10-12**

Credit: **1.00**

Length: **1 Year**

Prerequisites: **Algebra 1**

Fee: **None**

This course features a study of points, lines, and planes. Logical thinking is developed by relating lines and points in a plane. Measurements and distance comparisons in lines, planes, angles and triangles are studied utilizing the modern approach based on a set theory. Additional areas of focus include properties of congruent and similar triangles, circles, spheres, and plane coordinate geometry. Ohio Graduation Test review is a requirement.

## **MATHEMATICS (Continued)**

### **HONORS GEOMETRY**

#1240

Grade Level: 9

Credit: 1.00

Length: 1 Year

Prerequisites: Algebra 1 (B- Average or Above)

Fee: OGT Workbook

This is an accelerated course for talented and diligent mathematics student. Content includes set theory and measurement and comparison of distances in lines, planes, angles, and triangles. Strong emphasis is placed on problem solving and proofs.

### **INTRODUCTION TO DIFFERENTIATED CALCULUS & STATISTICS**

#1245

Grade Level: 12

Credit: 1.00

Length: 1 Year

Prerequisites: Pre-Calculus

Fee: None

Introduction to Differentiated Calculus and Statistics is for the student that has successfully completed Pre-Calculus, but is not ready for the rigor of an Advanced Placement Calculus course. This course will prepare students for many first-year college courses. Topics include limits, differentiation, probability and statistics.

### **HONORS PRE-CALCULUS**

#1250

Grade Level: 11-12

Credit: 1.00

Length: 1 Year

Prerequisites: Honors Algebra 2 (B Average or Above)

Fee: None

Pre-Calculus Honors is designed to finalize the student's preparation for Calculus. Topics include review and completed study of the elementary function, elements of analytic geometry- plane and space, and an introduction to elementary topics of Calculus.

## **MATHEMATICS** *(Continued)*

### **AP CALCULUS AB**

#1256

**Grade Level:** 12

**Credit:** 1.00

**Length:** 1 Year

**Prerequisites:** Pre-Calculus (B Average or Above)

**Fee:** None

The course is equivalent to a typical first year college Calculus class. Material covered aligns with the Calculus AB Advanced Placement (AP) exam administered in May. Topics include limits, continuity, derivatives and their applications and integrals and their applications. Students are required to complete a summer packet that focuses on properties of functions trigonometry, log and exponential functions: these topics must be thoroughly understood before studying Calculus.

### **AP CALCULUS BC**

#1255

**Grade Level:** 12

**Credit:** 1.00

**Length:** 1 Year

**Prerequisites:** Pre-Calculus Honors (B Average or Above)

**Fee:** None

This course is equivalent to the typical first year math and science-based college Calculus class. Material covered aligns with the Calculus BC Advanced Placement exam (AP) administered in May. Topics include limits, continuity, derivatives and their applications, integrals and their applications, infinite series and differential equations. Students are required to complete a summer packet that focuses on properties of functions trigonometry, log and exponential functions: these topics must be thoroughly understood before studying Calculus.

### **PRE-CALCULUS**

#1261

**Grade Level:** 11-12

**Credit:** 1.00

**Length:** 1 Year

**Prerequisites:** Geometry and Algebra 2 (B Average or Above)

**Fee:** None

Pre-Calculus presents a unified treatment of advanced algebra, trigonometry, and analytic geometry using modern technology. Polynomial functions, rational functions, and transcendental functions are studied using graphical analysis and more traditional approaches. This course offers an excellent background for those planning to continue the study of mathematics in college.

## **MATHEMATICS (Continued)**

### **MATH 1521 AND 1580/ COLLEGE PARTNERSHIP**

**#1262**

**Grade Level:** 11-12

**Credit:** 1.00

**Length:** 1 Year

**Prerequisites:** Geometry and Algebra 2. Cumulative GPA 3.0 and a Cumulative 3.0 in Mathematics. Administrative Recommendation and College Placement Test.

**Fee:** None

A course designed for the calculus bound student or a student planning to continue the study of mathematics in college. This course presents a study of advanced algebra topics and analytic geometry along with an exploration of various functions, including polynomial, rational, exponential, logarithmic and trigonometric models. Polar and parametric equations, mathematical induction, and the binomial theorem will be studied as well. These topics will be explored using modern technology and graphical analysis along with the more traditional approaches. This is a dual credit class between Rocky River High School and Cuyahoga Community College. Upon completing course requirements, qualifying students will earn a year-long high school credit for Pre-Calculus and 9 semester hours credit from Cuyahoga Community College.

### **COLLEGE ALGEBRA WITH TRIGONOMETRY**

**#1265**

**Grade Level:** 12

**Credit:** 1.00

**Length:** 1 Year

**Prerequisites:** Algebra 2

**Fee:** None

This is a course for seniors seeking an alternative to Pre-Calculus. Topics include: polynomials, rational, exponential, logarithmic and trigonometric functions, complex numbers, systems of equations and inequalities, mathematical induction, probability and statistics, and analytic geometry. Course material will be studied analytically and graphically. Graphing calculators will be used daily and extensively.

### **INTEGRATED MATHEMATICS 1**

**#1221**

**Grade Level:** 9-12

**Credit:** 1.00

**Length:** 1 Year

**Prerequisites:** Teacher Recommendation

**Fee:** None

This is the first course of a two-year sequence. Students taking this course will be required to take Integrated Mathematics 2 the following year. Students completing the two-year sequence will fulfill the Algebra 1 curriculum requirements, and complete some geometry requirements. The underlying theme will be critical thinking and problem solving skills. Upon successful completion of the two-year sequence, students will be eligible to enroll in geometry.

## **MATHEMATICS (Continued)**

### **INTEGRATED MATHEMATICS 2**

#1222

**Grade Level:** 9-12

**Credit:** 1.00

**Length:** 1 Year

**Prerequisites:** Integrated Mathematics 1

**Fee:** None

Integrated Mathematics 2 is a continuation of the study of algebra introduced in Integrated Mathematics 1. Upon completion of this course, the student will have studied the topics typically taught in a traditional Algebra 1 course. The topics include: polynomial functions, coordinate geometry, systems of linear equations, quadratic equations, probability and statistics, and problem solving. The student will continue using a graphing calculator in this course.

### **INTEGRATED MATHEMATICS 3**

#1223

**Grade Level:** 10-12

**Credit:** 1.00

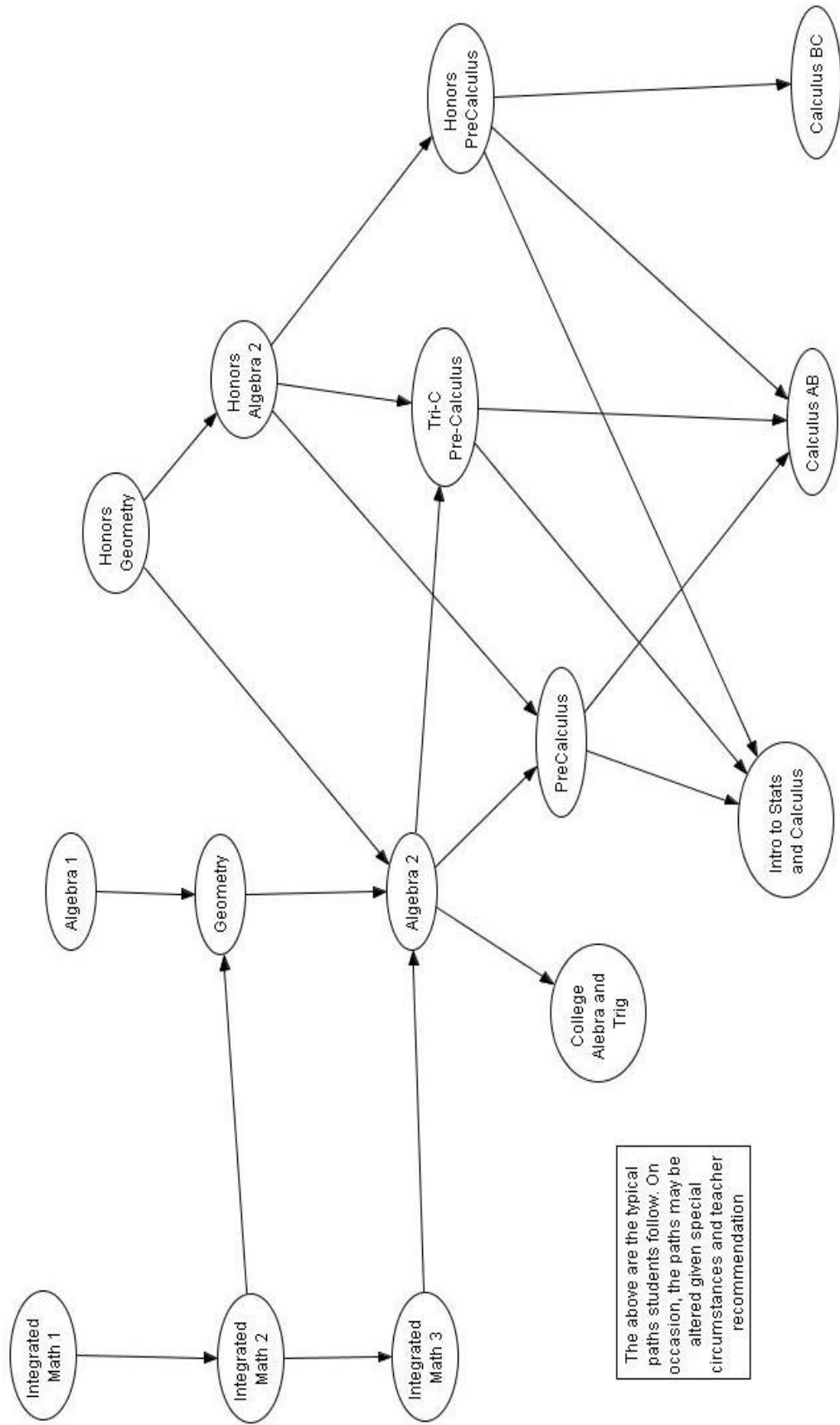
**Length:** 1 Year

**Prerequisites:** Teacher Recommendation Only

**Fee:** None

Integrated Mathematics 3 is an optional continuation of mathematical concepts introduced in Integrated Mathematics 2. Topics from algebra, geometry, trigonometry, statistics, probability and discrete mathematics are infused into a logical sequence so students continue to gain skills to use mathematics as a tool to solve real-life problems. Technology is used extensively to investigate mathematical concepts and to verify results.

Rocky River High School  
Mathematics Curriculum



The above are the typical paths students follow. On occasion, the paths may be altered given special circumstances and teacher recommendation

## **MUSIC: VOCAL and INSTRUMENTAL**

Music education develops a keen awareness of one's musical environment and an awakening of one's sensibilities to the contribution music makes to the quality of life. Participation in music can be a most cherished experience. The knowledge and skills acquired will be useful, whether music becomes a vocation, an avocation, or a memory.

### **COURSES OFFERED**

**Band, Concert Choir, Chorale/Show Choir, Treble Ensemble, Music Listening & Literature, Music Theory and Music Technology**

Music Technology, Music Theory and Music Listening & Literature will be offered on a rotational basis. Be certain to discuss with your counselor when, in the future, the courses will be offered.

#### **MUSIC LISTENING & LITERATURE (2012-2013)**

**#1516**

**Grade Level: 9-12**

**Credit: .50**

**Length: 1 Semester**

**Prerequisites: None**

**Fee: None**

This course is open to all students who wish to study music as a fine art. The ultimate goal of this is to develop understanding listeners who respond fully to music. Such listeners will find their aesthetic sense sharpened and their pleasure in music enhanced. Emphasis will be placed on the varying aspects of musical coherence in a broad variety of repertoires, with attention given to both the large-scale formal design and to the syntax of music phrases and periods. Music from the Medieval Period to art music and jazz of the twentieth century, as well as music history through the study of cultural context.

#### **MUSIC THEORY (2012-2013)**

**#1515**

**Grade Level: 9-12**

**Credit: .50**

**Length: 1 Semester**

**Prerequisites: Solid Foundation in General Music Concepts**

**Fee: None**

This is an advanced course open to all students who wish to study music in depth. The ultimate goal is to develop a student's ability to recognize and understand the basic material and processes in any music that is heard or read in score. Emphasis will be placed on the development of fundamental aural, notational, and performance skills. The course will provide a foundation in intervals, pitch patterns, metric/rhythmic patterns, chords, and the terms that are part of basic understanding of music.

## **MUSIC: VOCAL and INSTRUMENTAL (Continued)**

### **MUSIC TECHNOLOGY (2011-2012)**

**#1522**

**Grade Level: 9-12**

**Credit: .50**

**Length: 1 Semester**

**Prerequisites: Basic Knowledge of General Music Concepts**

**Fee: None**

Students will review basic music concepts and apply them to the creation of musical works. They will study technologies, old and new, used in the creation of music. Students will create musical works using MIDI (Musical Instrument Digital Interface) systems. In addition, students will analyze analog and digital waveforms and learn to interface between the two. Students will also become familiar with historical perspectives of this medium.

### **CONCERT CHOIR**

**#1511**

**Grade Level: 9-12**

**Credit: 1.00**

**Length: 1 Year**

**Prerequisites: None**

**Fee: \$45.00**

Concert Choir is a mixed ensemble that meets daily. Membership is open to students in grades 9, 10, 11 or 12 who enjoy singing and working within the structure of a large performing group. This ensemble studies music from many different styles and historical periods, including musical theater and pop literature. Students are required to perform at all school concerts and adjudicated events to complete the requirements of this course.

### **CHORALE**

**#1512**

**Grade Level: 9-12**

**Credit: .50**

**Length: 1 Year**

**Prerequisites: Audition**

**Fee: \$45.00**

Chorale is a mixed ensemble that meets on Mondays, Wednesdays, and Fridays. Members are chosen on the basis of musicianship, vocal quality, and a desire to achieve high performance standards. Students will study advanced vocal techniques and perform music from all periods with special emphasis being placed on the more difficult choral literature. Members perform at all school concerts and adjudicated events to complete the requirements of this course. Note: Chorale members may elect to take Advanced Musicianship upon instructor recommendation.

## **MUSIC: VOCAL and INSTRUMENTAL (Continued)**

### **CHORALE/SHOW CHOIR**

**#1513**

**Grade Level: 9-12**

**Credit: 1.00**

**Length: 1 Year**

**Prerequisites: Audition**

**Fee: \$75.00**

This is an entertainment-oriented ensemble that performs musical programs for school, community and civic groups, as well as festivals and competitions. Members are encouraged to actively participate in the staging and showmanship of this organization. Private vocal instruction is strongly encouraged.

The instrumentalists accompanying this group must be members of one of the high school instrumental ensembles and should be a member of one of the vocal ensembles (i.e., Chorale or Concert Choir).

The crew members of this group must be members of one of the vocal ensembles (i.e., Chorale or Concert Choir).

### **TREBLE ENSEMBLE**

**1520**

**Grade Level: 9-12**

**Credit: 1.00**

**Length: 1 Year**

**Prerequisites: Audition**

**Fee: \$45.00**

Treble Ensemble is a soprano/alto ensemble that meets daily. This choir is open to students in grades 10, 11 or 12 by audition only. Members are chosen on the basis of musicianship, vocal quality, and a desire to achieve high performance standards. Students who are members of Chorale do not need to audition for this group, and may participate in both Treble Ensemble and Chorale. Students will study advanced vocal techniques and perform music from all periods with special emphasis being placed on the more difficult choral literature. Members perform at all school concerts and adjudicated events to complete the requirements of this course.

## **MUSIC: VOCAL and INSTRUMENTAL (Continued)**

### **BAND**

**#1519**

**Grade Level: 9-12**

**Credit: 1.00**

**Length: 1 Year**

**Prerequisites: Successful completion of Middle School Band Program and/or private lessons**

**Fee: Ranges from \$50-\$150 depending on equipment needs**

Band is open to all students interested in instrumental music that possess the skills necessary to perform at the high school level. Emphasis is on the performance aspects of music through a varied repertoire of marching and concert band literature. Essentials of good musicianship, good bandsmanship, and development of techniques are stressed. Students who enroll in band music participate in the marching and either the wind ensemble or concert band. Exceptions are made (e.g., medical problems) via committee review. The committee consists of the band director, the director of student activities, and the building principal.

The bands take an extended trip every other year (Spring 2011).

***Marching Band*** is a precision marching unit that follows the schedule of all home and away football games. Additionally, there are parades, festivals, and special events. Rehearsals are held daily as a scheduled class, 1 night per week during the season, and approximately 2 weeks before the first performance with a daily “band camp.”

***Concert Band*** is a large instrumental ensemble performing at concerts and special events. Auditions in this group are for seating only rather than for membership. This ensemble studies music from many different styles and historical periods. Students are required to perform at all school concerts and adjudicated events to complete the requirements of this course.

***Wind Ensemble*** is a medium sized instrumental ensemble performing at concerts and special events. Auditions in this group are for membership as well as seating. This ensemble studies music from many different styles and historical periods. Students are required to perform at all school concerts and adjudicated events to complete the requirements of this course. Private lessons are highly recommended for students wishing to audition for the Wind Ensemble, but they do not guarantee acceptance.

## **SCIENCE**

Science courses deal with the study of truths, processes, and attitudes. They stress scientific attitudes, including the idea that man's concept of scientific truth is relative. That is to say, man's concept of scientific truth changes as our knowledge of reality changes. Students are encouraged to select courses that will help them realize their optimum level of performance. Students are encouraged to study as much science as possible, including, if appropriate, taking more than one course simultaneously.

The following courses are available. Careful attention should be given to prerequisites, if applicable.

### **COURSES OFFERED**

**Earth Science and the Physical Environment, Environmental Science, Biology, Biology (Honors), AP Biology, Principles of Biology/College Partnership, Chemistry, Chemistry (Honors) AP Chemistry, Physics, AP Physics B**

#### **EARTH SCIENCE and the PHYSICAL ENVIRONMENT**

#1312

**Grade Level: 9-12**

**Credit: 1.00**

**Length: 1 Year**

**Prerequisites: None**

**Fee: \$15.00**

Earth Science and the Physical Environment is an activity-oriented course intended for the freshman student. This course provides a foundation in Chemistry and Physics with a continued study of Earth and Space Science. Topics include: the composition and behavior of matter, the periodic table, nuclear chemistry, forces and motion, energy, astronomy, and the dynamic forces acting on and within the Earth.

#### **ENVIRONMENTAL SCIENCE**

#1313

**Grade Level: 11-12**

**Credit: 1.00**

**Length: 1 Year**

**Prerequisites: Successful Completion of one Life Science and one Physical Science**

**Fee: \$15.00**

Environmental science is a laboratory / activity based course design. Topics covered include: water quality, mineral resources, ecological interactions, energy use, population issues, conservation, and national/local environmental policies. Class discussion focuses on issues and activities surrounding environmental studies.

## **SCIENCE (Continued)**

### **BIOLOGY**

**#1322**

**Grade Level: 10-12**

**Credit: 1.00**

**Length: 1 Year**

**Prerequisites: None**

**Fee: \$20.00**

Biology is intended for the sophomore student as a laboratory science course. Basic laboratory skills and techniques are taught. The course emphasizes the interpretation of laboratory activities through analysis of data and background from the text. The student is engaged as a scientist to solve problems of a biological nature. The major topics explored in this course are Biochemistry, Cellular Biology, Genetics, Evolution, Classification, Botany, Zoology, and Ecology.

### **HONORS BIOLOGY**

**#1323**

**Grade Level: 9-10**

**Credit: 1.00**

**Length: 1 Year**

**Prerequisites: Algebra 1 Preferred or Concurrent Registration in Algebra 1**

**Fee: \$20.00**

This is a laboratory-based course structured around unifying themes of Biology. The course is taught at an accelerated pace and concepts are explored in greater detail as compared to academic biology. Laboratory skills and techniques are taught and practiced, and students are asked to draw conclusions based on data obtained. The major concepts covered include Biochemistry and Cells, Energy, Cell Division, Genetics, DNA & DNA Technology, Evolution, Ecology, Classification, and Anatomy & Physiology as investigated through an animal dissection.

### **AP BIOLOGY**

**#1324**

**Grade Level: 11-12**

**Credit: 1.00**

**Length: 1 Year**

**Prerequisites: Biology, Chemistry, Algebra 2 or Concurrent Enrollment in Algebra 2**

**Fee: \$30.00**

This challenging, second-year, laboratory-based course is intended for those students interested in the biology field as a future career and possible college credit. Students will explore, through detailed laboratory and classroom experiences: Biochemistry, Cellular Biology, Genetics, Evolution, Classification, Botany, Zoology, and Ecology. Interested students do have the option of taking the AP Biology Exam to earn college credit. Students taking this course must have a good understanding of chemistry and basic biological concepts. Students interested in taking the AP exam may have to spend extra time, before or after school, in preparation for the test.

## **SCIENCE (Continued)**

### **BIOLOGY 1500 - PRINCIPLES OF BIOLOGY I/COLLEGE**

#### **PARTNERSHIP**

#1325

Grade Level: 12

Credit: 1.00

Length: 1 Year

Requirements: Biology, Chemistry, Cumulative GPA of 3.0 and Cumulative 3.0 in Science, Administrator Recommendation and Successful Performance on College Placement Test.

Note: Students who have successfully completed AP Biology are not eligible for this course.

Fee: \$50.00

Principles of Biology College Partnership is a senior level course designed as a second year biology course with both Biology (first year) and Chemistry as prerequisites for enrollment. It is intended for seniors interested in college credit and a biology-related field as a future career. This course focuses on building a strong foundation of biological knowledge, developing solid study, laboratory, and writing skills; and preparing the students for college level classes. The pace and depth of the curriculum of the course is indeed at the college freshman level, and this course is structured as a course offered at a typical college as "Principles of Biology I." In this laboratory-based course, students will explore, through detailed laboratory and classroom experiences the following topics: Biochemistry, Cellular Biology, Mendelian Genetics, Molecular Genetics, Biotechnology, Evolution, Viruses, Bacteria, and the Origin of Life.

### **CHEMISTRY**

#1332

Grade Level: 11-12

Credit: 1.00

Length: 1 Year

Prerequisites: Concurrent Algebra 2, EPE, and Biology

Fee: \$19.00

Chemistry is a laboratory course dealing with basic concepts such as chemical reactions, stoichiometry, gas laws, atomic structure, the periodic table, ionic and covalent bonding, equilibrium, and acid base chemistry. Proficiency with algebra is necessary for managing the course content. Analytical thinking skills and problem solving skills are emphasized.

### **HONORS CHEMISTRY**

#1333

Grade Level: 10-12

Credit: 1.00

Length: 1 Year

Prerequisites: Concurrent w/Algebra 2

Fee: \$25.00

Honors Chemistry is a mathematical course covering much of the same topics as academic chemistry but to a greater depth at a faster pace. The scientific process is emphasized through data analysis of laboratory activities. It serves as the precursor to the AP Chemistry course.

## **SCIENCE (Continued)**

### **AP CHEMISTRY**

**#1336**

**Grade Level: 11-12**

**Credit: 1.00**

**Length: 1 Year**

**Prerequisites: Honors Chemistry /Concurrent Registration in Pre-Calculus**

**Fee: \$30.00**

AP Chemistry serves as a challenging second year of chemistry which parallels a college level curriculum in terms of pace and complexity. It is driven by two goals: (1) to prepare students to succeed on the AP Exam in May and (2) to develop the corresponding laboratory skills and techniques. It is a math-based course that utilizes equations to demonstrate the integration of concepts. Topics covered include quantum mechanics, kinetics, stoichiometry, descriptive chemistry, thermodynamics, and electrochemistry.

### **PHYSICS**

**#1342**

**Grade Level: 12**

**Credit: 1.00**

**Length: 1 Year**

**Prerequisites: Algebra 2/Concurrent Registration in Pre-Calculus Preferred**

**Fee: \$15.00**

This physics course is an algebra and trigonometry-based introduction to the interactions between matter and energy. The course emphasizes mathematical reasoning, multi-step problem-solving, and laboratory investigations. Topics include Newtonian mechanics, thermodynamics, optics, electricity, and magnetism.

### **AP PHYSICS B**

**#1344**

**Grade Level: 12**

**Credit: 1.00**

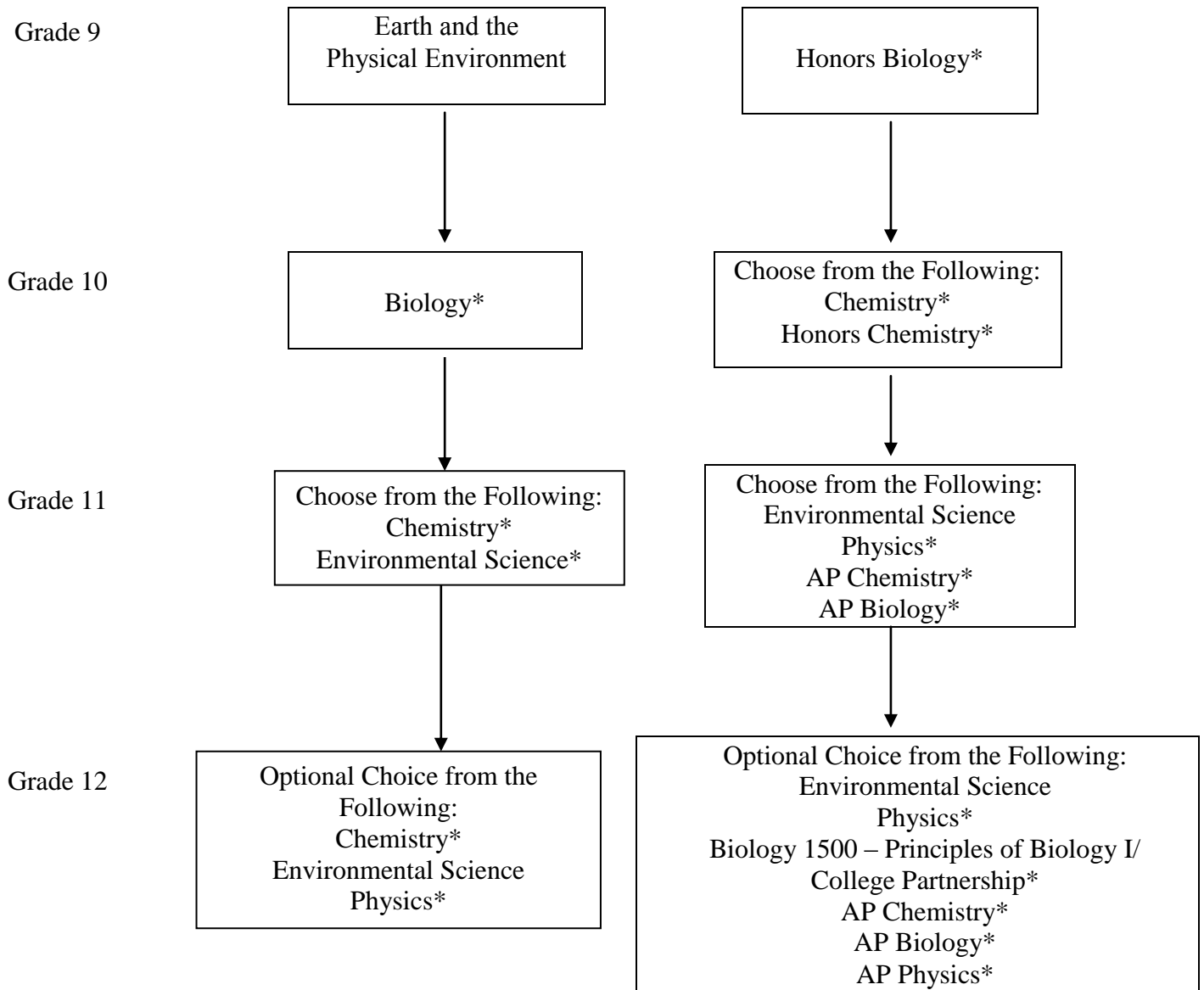
**Length: 1 Year**

**Prerequisites: Chemistry, Pre-Calculus and Concurrent Registration in Calculus**

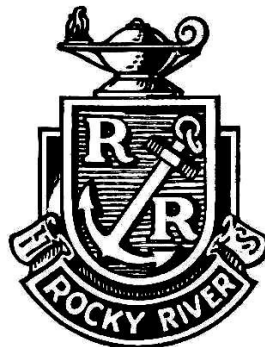
**Fee: \$15.00**

This is an Advanced Placement laboratory course which is the equivalent of the first-year college general physics course. The course is designed to prepare students to take the Physics (B) advanced placement examination and to qualify for college credit. Topics taught in the course include: Newtonian Mechanics without calculus, oscillations, electricity, magnetism, thermodynamics, and modern physics.

# Rocky River High School Science Curriculum Flowchart



\*Denotes class has a pre-requisite and/or admission requirements



## **SOCIAL STUDIES**

Social Studies courses deal with the study of people in relation to their social and physical environments. Through the various courses offered students will acquire the knowledge, skills, values, and responsibilities to enable them to become productive and effective members of society.

*World History, United States History and United States Government and Contemporary Issues/Personal Finance are required.* All other courses are electives.

The following courses are available. Careful attention should be given to prerequisites, if applicable.

### **COURSES OFFERED**

**United States History, United States Government and Contemporary Issues/Personal Finance, AP United States Government, AP United States History, World History, Honors World History, Global Affairs, Economics**

#### **UNITED STATES HISTORY**

#1124

**Grade Level: 10**

**Credit: 1.00**

**Length: 1 Year**

**Prerequisites: None**

**Fee: None**

United States History is a *required* study of American History that includes a brief review of Pre-Colonial times through the Civil War. This course emphasizes the economic, political, cultural, and social developments from Reconstruction through the present era. Emphasis is on the meaning and values of the democratic way of life.

#### **UNITED STATES GOVERNMENT & CONTEMPORARY ISSUES/PERSONAL FINANCE**

#1125

**Grade Level: 11-12**

**Credit: 1.00**

**Length: 1 Year**

**Prerequisites: American History**

**Fee: None**

American Government is a *required* study of governmental units at the national, state, and local levels. The purpose of the course is to examine why a democratic form of government is best suited to the needs of the American people and to examine its strengths and weaknesses. Continuing interest is focused on how the three levels of government interact and how each can perform best to fulfill all the services the people need. Guest speakers, political figures, and attorneys are an integral part of the course.

This experience will provide students with an exposure to the events, which have a major impact on the United States. Student research and participation will be emphasized.

## **SOCIAL STUDIES (Continued)**

### **AP UNITED STATES HISTORY**

#1126

**Grade Level:** 10

**Credit:** 1.00

**Length:** 1 Year

**Prerequisites:** Teacher Recommendation

**Fee:** None

This course is designed to provide students with analytical skills and factual knowledge necessary to think critically about the problems and issues in American History. This course prepares students for intermediate and advanced college-level courses by making demands upon them equivalent to those of full-year introductory college courses. Students will learn to assess historical materials – their relevance to a given interpretive problem, their reliability, and their importance – and to weigh the evidence and interpretations present in historical scholarship. An Advanced Placement examination is given in May.

### **WORLD HISTORY**

#1123

**Grade Level:** 9

**Credit:** 1.00

**Length:** 1 Year

**Prerequisites:** None

**Fee:** None

This is a requirement for freshmen and references the history of western civilization from Greece to modern day. This course stresses the following areas of study: Greek and Roman Civilization, the Middle Ages, the Renaissance and Reformation, revolutions, Nationalism, Imperialism, the World Wars, and modern problems. Independent study and supplementary readings are among the many techniques used to vary the student's study of the fascinating story of the rise and fall of great societies.

### **HONORS WORLD HISTORY**

#1120

**Grade Level:** 9

**Credit:** 1.00

**Length:** 1 Year

**Requirements:** 8<sup>th</sup> grade Social Studies and Honors English Teacher Recommendations (B average or above)

Honors World History is a challenging course designed for students intending to take AP US History in their sophomore year. The scope and sequence for Honors World History is the same as the required World History course. It is the challenge of Honors World History to look for original sources, competing viewpoints and the work of professional historians to attempt to validate the most likely truth. Such analysis requires extensive writing experience as well as reading and memorizing in a fast paced environment. Regular major writing projects, research programs and short analyses prepare the students for this skill.

- This course *should be* taken in conjunction with Honors English.
- This course is recommended for students planning on taking 10<sup>th</sup> grade A.P. U.S. History.

## **SOCIAL STUDIES (Continued)**

### **GLOBAL AFFAIRS**

**#1127**

**Grade Level:** 11-12

**Credit:** .50

**Length:** 1 Semester

**Prerequisites:** World History

**Fee:** None

This course will focus upon major historical trends that have helped shape civilization in the post World War II era. Course content begins with the forces contributing to the Cold War alliances and concludes with an examination of the process of globalization and the subsequent emergence of worldwide terrorism. While the course is primarily a study in contemporary world history, it incorporates the study of world geography and geopolitics throughout.

### **AP UNITED STATES GOVERNMENT**

**#1129**

**Grade Level:** 11-12

**Credit:** 1.00

**Length:** 1 Year

**Prerequisites:** Teacher Recommendation

**Fee:** None

AP United States Government is a yearlong examination of government in America, from the national to the state to the local levels. This course leads to the Advanced Placement test in May, which is strongly recommended for high achieving students. It offers the most comprehensive study of U.S. Government and politics available in a high school curriculum, including a full look at the operation of the three branches of the federal government, a comparison with other governmental systems, and an investigation of the Constitution (especially through court decisions). Cooperation between national and regional levels is explored, as are the forms and functions of the state systems. In addition, the course examines the ways in which American cities are governed and looks at some of the special problems that face our large metropolitan areas.

### **ECONOMICS**

**#1130**

**Grade Level:** 11-12

**Credit:** .50

**Length:** 1 Semester

**Prerequisites:** None

**Fee:** None

The course focuses on a general overview of our American Economy. National economic trends will be thoroughly examined. Emphasis is placed on the economic issues, structure of the market, demand, supply, and how demand and supply interact. Other topics include: the stock exchange, market growth, monetary policy and the Federal Reserve System. A variety of supplemental activities will be used.

## **STUDY SKILLS**

### **FRESHMEN MENTORING PROGRAM**

**#0124**

**Grade Level: 9**

**Credit: .25**

**Length: Semester/Year**

**Required**

This course is designed to help students find success in school and in life. The personal, social and academic growth of each freshman student is nurtured through an ongoing orientation that includes information about school policies, procedures and programs, academic and social counseling and relationship building through upper-class student mentors. It will emphasize the value of academic rigor and expectations at the high school level and in one's educational career. It will provide a supportive environment that allows freshmen to become familiar with the high school's traditions, co-curricular opportunities and school activities. It will provide students with skills to get and stay organized to include study skills (learning styles, note taking, textbook reading, test taking and memorization techniques), setting and reaching goals, decision making, and management of time and stress factors.

## **WORLD LANGUAGES**

Language study is an experience that implies progressive acquisition of linguistic skills. Generally, the skills developed in learning a world language may be applied to other areas of study. World language study reinforces English language skills and communication. It also develops an approach to learning a language and illustrates the systematic structure of the language.

Skills to be mastered in each language include listening, speaking, reading and writing. Acquisition of these skills will result in a greater understanding of the concept of language and will lead to competency in the use of world languages. Students will be encouraged to expand and deepen their knowledge of the country or countries in which the world language is spoken by examining people, geography, history, social institutions, literature and culture.

Students should attain a better perspective of our own culture by studying the cultural similarities and differences among nations. Students will also explore career opportunities available to those who have gained proficiency in another language.

***NOTE: Students selecting world language will be requested to purchase supplementary materials such as workbooks, newspapers, magazines, and paperbacks.***

## **COURSES OFFERED**

**French 1, French 2, French 3, French 4, AP French Language, Spanish 1, Spanish 2, Spanish 3, Spanish 4, AP Spanish Language, German 1, German 2, German 3, German 4**

### **FRENCH 1**

**#1061**

**Grade Level: 9-12**

**Credit: 1.00**

**Length: 1 Year**

**Prerequisites: None**

**Fee: None**

Basic skills will be introduced progressively. Listening and speaking will be emphasized with practice in simple sentence construction, question and answer drill, and elementary conversation. Thematic vocabulary (i.e. home, school, work, clothing, weather, and recreation) will be stressed. Students will be introduced to the concept of expressing time in different verb tenses. Basic Francophone culture and traditions will be introduced with a focus on France.

## **WORLD LANUAGES (Continued)**

### **FRENCH 2**

**#1062**

**Grade Level:** 9-12

**Credit:** 1.00

**Length:** 1 Year

**Prerequisites:** French 1

**Fee:** None

There will be extensive review of material previously studied. New grammatical construction and vocabulary will be introduced and further developed. Emphasis will be placed on answering questions and expressing thoughts in simple language using a variety of verb tenses, both orally and in writing. Short readings will reinforce students' understanding of the language. Study of Francophone culture will be continued. Projects will include a one-page paper in French, and French in depth food unit with menu and video.

### **FRENCH 3**

**#1063**

**Grade Level:** 10-12

**Credit:** 1.00

**Length:** 1 Year

**Prerequisites:** French 2

**Fee:** None

During the third year of the program, the student should be listening to and understanding French when spoken at a normal tempo on subjects within the range of his/her experiences. Skills of previous levels will be further sharpened. More focus will be placed on developing skills in spontaneous oral and written expression. Students will read more advanced texts in order to increase comprehension skills. More advanced grammar and syntax will be learned. Students will engage in a more in-depth study of the culture and art, the geography of France and its place in the European community.

### **FRENCH 4**

**#1064**

**Grade Level:** 11-12

**Credit:** 1.00

**Length:** 1 Year

**Prerequisites:** French 3

**Fee:** None

Class periods will be conducted primarily in French. More refined points of grammar and syntax will be presented and practiced. Texts read and discussed will be taken from French literature and media. Readings will also offer insight into French manners, thought, and everyday life. French history and Francophone cultures will be an integral part of the course. The student will be expected to discuss and summarize the readings, and complete PowerPoint and Smartboard presentations.

## **WORLD LANGUAGES (Continued)**

### **AP FRENCH LANGUAGE**

**#1066**

**Grade Level: 12**

**Credit: 1.00**

**Length: 1 Year**

**Prerequisites: French 4**

**Fee: None**

This class is designed to be an advanced course in French composition and conversation stressing oral and written skills, advanced grammar and vocabulary as will be experienced on the AP exam. Class will be conducted in French. Readings will include short stories, newspapers, literary and historical selections, and a full-length novel. Students will also develop listening comprehension skills through the use of authentic audio-visual materials. Art, politics, poetry and a continued study of history will be an integral part of the course. The Advanced Placement examination is given in May.

### **SPANISH 1**

**#1071**

**Grade Level: 9-12**

**Credit: 1.00**

**Length: 1 Year**

**Prerequisites: None**

**Fee: None**

Basic skills will be introduced progressively. Listening and speaking will be emphasized, with practice in conversation, question-answer drill, and simple sentence construction. Vocabulary dealing with home, school, weather, clothing and recreation will be stressed. Aspects of culture will be introduced. There will be costs involved for purchase of necessary supplemental materials.

### **SPANISH 2**

**#1072**

**Grade Level: 9-12**

**Credit: 1.00**

**Length: 1 Year**

**Prerequisites: Spanish 1**

**Fee: None**

There will be extensive review of material previously studied. New information will be presented in the form of simple narratives, gradually increasing in length and complexity as the year progresses. Emphasis will be placed on answering questions and expressing thoughts in simple language, both orally and in writing. After a review of previously studied verb tenses, several new tenses will be introduced. Vocabulary and grammatical constructions will be expanded. Study of culture will be continued. There will be costs involved for purchase of supplemental materials.

## **WORLD LANGUAGES (Continued)**

### **SPANISH 3**

**#1073**

**Grade Level:** 10-12

**Credit:** 1.00

**Length:** 1 Year

**Prerequisites:** Spanish 2

**Fee:** None

During the third year of the program, the student should be listening to and understanding Spanish when spoken at a normal tempo on subjects within the range of his/her experiences. The student's conversational skills are developing so that he/she may be approaching an oral proficiency sufficient to make direct contact with a native speaker on a common topic. He/she is now reading with more direct understanding of material on both general topics and material on the subject covered in stories. The student's writing consists of longer paragraphs using many authentic patterns of the language. The grammatical concepts learned are being used orally in sentences. Finally, he/she is learning to understand the Hispanic people and their values. There will be costs involved for purchase of necessary supplemental materials.

### **SPANISH 4**

**#1074**

**Grade Level:** 11-12

**Credit:** 1.00

**Length:** 1 Year

**Prerequisites:** Spanish 3

**Fee:** None

This program embraces virtually every phase of world language learning and concentrates on an in-depth study of Hispanic culture, history, art and literature. Study of the following continues: grammar, vocabulary, and style. Greater proficiency is achieved in the finer points of pronunciation and intonation. A natural use of idiomatic constructions is developed. The student learns to express himself/herself clearly and concisely in writing and to read most written material. There may be costs involved for purchase of necessary supplemental materials.

### **AP SPANISH LANGUAGE**

**#1076**

**Grade Level:** 12

**Credit:** 1.00

**Length:** 1 Year

**Prerequisites:** Spanish 4

**Fee:** None

The current AP Spanish Language course is intended to develop proficiency in the five goal areas outlined in the Standards for World Language Learning in the 21<sup>st</sup> Century. It has also been designed to prepare students for the AP test and the university. Students will perform and increase their level in Spanish by integrating their language skills and synthesizing their writing and aural materials. This course is conducted in Spanish and it is meant to be comparable to fifth and sixth semester college and university courses that focus on speaking and writing in the target language at an advanced level. The course includes writing and integration of skills with a strong emphasis on grammatical structures and vocabulary. There will be costs involved for purchase of necessary supplemental materials.

## **WORLD LANGUAGES (Continued)**

### **GERMAN 1**

**#1081**

**Grade Level: 9-12**

**Credit: 1.00**

**Length: 1 Year**

**Prerequisites: None**

**Fee: None**

Basic skills will be introduced progressively. Listening and speaking will be emphasized, with practice in conversation, question-answer drill, and simple sentence construction. Simple vocabulary dealing with home, school, work, clothing, and recreation is stressed. Students will be introduced to the concept of expressing time in different tenses. Aspects of culture will be introduced. A specific fee is not charged, but there will be costs involved for purchase of necessary supplemental materials.

### **GERMAN 2**

**#1082**

**Grade Level: 10-12**

**Credit: 1.00**

**Length: 1 Year**

**Prerequisites: German 1**

**Fee: None**

There will be extensive review of material previously studied. New information will be presented in the form of simple dialogues and narratives, gradually increased in length and difficulty as the year progresses to include a novella. Emphasis will be placed on answering questions and expressing thoughts in simple language, both orally and in writing. Verb tenses will be reviewed, introduced and developed in depth. Vocabulary and grammatical constructions will be further developed and the study of culture will be continued. A specific fee is not charged, but there will be costs involved for purchase of necessary supplemental materials.

### **GERMAN 3**

**#1083**

**Grade Level: 11-12**

**Credit: 1.00**

**Length: 1 Year**

**Prerequisites: German 2**

**Fee: None**

Oral and written skills from previous years are further developed in this course. Reading and discussion are expanded to include more complex material. The emphasis in literature is on dialogues, narratives and novellas. Grammar skills will be reviewed, practiced and expanded. Topics include the genitive case, past tense with modal auxiliaries, past perfect tense, adjective endings, coordinating and subordinating conjunctions and two-way prepositions. Oral practice will concentrate on proper word order and tense usage. Each student should be willing to make maximum use of the language in class. A specific fee is not charged, but there will be costs involved for purchase of necessary supplemental materials.

## **WORLD LANGUAGES (Continued)**

### **GERMAN 4**

**#1084**

**Grade Level: 12**

**Credit: 1.00**

**Length: 1 Year**

**Prerequisites: German 3**

**Fee: None**

Emphasis is on honing written and oral skills, and class discussions are conducted in German. Literature focuses on legends, historical persons and current short stories. Attention is given to individual grammar problems. Topics include relative pronouns, if/then clauses in the past tense, modals in the present perfect and with double infinitives. Subjunctive mood and passive voice are studied in detail. Students are expected to summarize what they have read in detail both orally and in writing. All students keep a diary for the year. A specific fee is not charged, but there will be costs involved for purchase of necessary supplemental materials.

## **WEST SHORE CAREER – TECHNICAL DISTRICT**

The Career – Technical Education Programs are designed to provide students with entry-level skills, prepare them to enter full-time employment, college, technical school or seek military or civic service careers. Emphasis is placed on the development of proper work habits and attitudes necessary for enriching and successful employment careers.

**INTEREST IN A COURSE DOES NOT GUARANTEE ENROLLMENT. CONSIDERATIONS INCLUDE STUDENT ELIGIBILITY AND CONTRACTED SPACE ALLOCATION.**

### **TECH PREP**

Is an educational option for students who wish to link their last two years of high school education with a two-year associate degree technology program at Cuyahoga Community College. Time will be spent in a program designed to be flexible in scheduling academic and career – technical classes the last two years in high school.

This program is designed to prepare students for college level work; therefore, higher-level Mathematics, Science and English courses are suggested for this program. Please consult with your guidance counselor for the pathways in each program. **Participation is limited.**

**Program offerings for the tech prep option and all other West Shore Career-Technical programs are noted in the individual course descriptions located in the West Shore Career-Technical District Course Catalog. Please see your respective counselor for additional information.**



West Shore Career-Technical  
District

# 2012-13 Programs

For  
High School Students  
Of the  
West Shore Districts

Bay Village  
Lakewood  
Rocky River  
Westlake

West Shore Career–Technical District



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## *Welcome to West Shore*

*The West Shore Career-Technical District* offers the programs listed in this catalog to students of the *Bay Village, Lakewood, Rocky River and Westlake* school districts. Our Career-Technical Education programs are recognized as some of the finest in the state. Many of our graduates are employed upon graduation, while others continue their education at two- or four-year colleges.

Many capable students overlook a career technical program during their high school years because they believe that, since they are planning to go to college, they need to be on an exclusively “college prep” academic track. While this may have been true a generation ago, it is no longer true today. Many college prep students have found several career tech programs actually *enhance* their college preparation rather than compete with it. These are students who are typically more focused than their peers because they

- ❖ Possess a career direction
- ❖ Possess a vision of their lives beyond just today
- ❖ Have planned with their counselors how to fit academics and career tech into their four years of high school
- ❖ Have developed good time management skills
- ❖ Possess the social and emotional maturity that allows them to take advantage of a new educational opportunity

For example, students who think they may want to study business, accounting, finance, marketing or management in college may want to consider one of the programs in the **Business** section to get a head start on what will be taught in college. This is true as well for students interested in a medical, teaching or engineering career. Is technology your passion? Then consider something in **Arts & Communication, Electronics** or **Networking**; if you are an advanced biology student who dreams about DNA and microscopes, then look at our **Biotechnology** program. There are many more opportunities to combine college and career tech. Look at the possibilities in a West Shore Career- Technical program and *dare to dream what you could do*.

Employers and college admissions officers like career technical graduates because they know they have had hands-on training and real-world experience in their chosen field of interest. Learning **about** something is not the same as learning how to **do** something. Career-technical programs at West Shore emphasize both. Students graduate from our one or two-year programs with *documented evidence* of their knowledge, skills and experience that will take them to the next step of their education as well as to entry level *skilled* employment. In addition, many of our programs offer the opportunity for students to obtain industry credentials as a result of their mastery of the topics studied. Please see our website for specific program information.

### *Northeast Ohio Tech Prep Partnership – College Link – (CT)<sup>2</sup>*



This symbol next to course offerings in the catalog denotes a college Tech Prep offering

The West Shore Career-Technical District, in collaboration with Cuyahoga Community College, offers Tech Prep programs as an educational option for students who wish to link their last two years of high school education with a two-year associate degree technology program at Cuyahoga Community College. Students enrolled in a Tech Prep program can earn college credit toward a degree at Cuyahoga Community College. The credits earned can be transferred to some four-year colleges as well.



**LINK** College Link is a means for our Career-Technical students to receive credit from various **private schools** in Ohio. The West Shore Career-Technical District has secured articulation agreements which will enable students to transfer college credits to that school provided they have met the requirements set by that school.



(CT) <sup>2</sup> is a state-wide articulated college credit program. It helps high school career technical students go to college and enter with college credit. Technical credit saves students money and time and Ohio business and industry will benefit from more employees with higher education and advanced skills. Students are guaranteed the transfer of applicable credits among Ohio’s public colleges and universities through (CT) <sup>2</sup>. To read more about this program go to: <http://www.ohiohighered.org/transfer/ct2> from this page you can scroll down and click on Approved Programs and Courses where you can look up what colleges accept the college credits from your specific program.

**ARTICULATED COLLEGE CREDIT WILL HELP STUDENTS . . .**

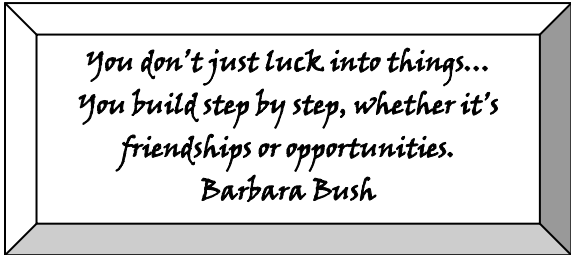
- ✓ GET A GREAT JOB
- ✓ TRANSITION INTO A TWO-YEAR OR FOUR YEAR COLLEGE PROGRAM
- ✓ EARN A COLLEGE DEGREE

Students may earn college credits or waive college requirements by taking a career-tech program. Articulated college credit requirements vary by program, if you are interested in the possibilities offered in a Tech Prep, College Link or (CT) <sup>2</sup> program call the Coordinator of Career Development at 216-529-4154.

**Grading Scale**

Points assigned for letter grades in determining grade point averages in West Shore Programs.

<b>Letter Grade</b>	<b>Percentage Grade</b>
A+	97-100
A	93-93
A-	90-92
B+	87-89
B	83-86
B-	80-82
C+	77-79
C	73-76
C-	70-72
D+	67-69
D	63-66
D-	60-62
F	0-59



# West Shore Career-Technical District



## *Tech Prep, College Link, and (CT)<sup>2</sup> FAQs*

### ***What do I need to do to earn college credit while in a career-tech program?***

- Earn at least a 3.0 GPA (grade point average) in your career-tech program
- Maintain a 2.0 GPA (grades 9-12)
- Maintain a 95% attendance rate in your career-tech program
- Pass Tech Prep Algebra 2 or equivalent
- Pass all parts of the OGT
- Pass the State of *Ohio Career Technical Competency Assessment (OCTCA)*

### ***How many credits can I earn?***

Each program offers a different amount of credit and set of criteria, so it will vary depending on the college, the career-tech program, or the major you are pursuing after high school. Some colleges may require a “bridge” course, testing, or a portfolio to award credit. You must also meet all the above requirements.

### ***What are SOME of the colleges or universities have Articulated College Credit\* with the West Shore Career-Technical District?***

Ashland College  
Bowling Green University  
Bryant & Stratton  
Cleveland State University  
Cuyahoga Community College  
Hocking College  
Lakeland Community College  
Lorain County Community College  
Ohio State University  
Ohio University  
Sinclair Community College  
The University of Akron  
The University of Dayton  
The University of Toledo  
Youngstown State University  
Virginia Marti College of Art and Design

***\*Many articulation agreements waive one or more college requirements because of skills mastered by the student in the West Shore program.***

## **ARTS & COMMUNICATIONS**



### Interactive Media Design 1

**0630** **Full Year – 3 Credits**  
**Open to Grade 11** **15 Periods per week**  
*Application & interview required. Prerequisite: Algebra 1 (completed or currently passing) Suggested: Intro to IT; Artistic Ability*

### Interactive Media Design 2

**0640** **Full Year – 3 Credits**  
**Open to Grade 12** **15 Periods per week**  
*Prerequisite: Interactive Media I.  
Recommended: Tech Prep Algebra 2 or equivalent*

#### ***DRAW – ANIMATE– CREATE – DESIGN!!***

This **two-year program** provides students with the opportunity to learn, in a lab situation, various computer graphic & text applications such as **web-page design, video editing, page layout, digital design, digital photography, multimedia, commercial art and graphic design animation**. Students will learn to use such software as Adobe PhotoShop, Indesign, Illustrator, Dreamweaver, Flash and Final Cut Pro starting at basic levels and work to achieve professional skills.

- **Early Placement** – *Work experience 2nd semester senior year, 15 hours per week in a related occupation.*
- **College Credit Available**

**\*Students must also complete Tech Prep Algebra 2 or equivalent to be eligible for college credit in Ohio.**

#### Career Opportunities:

- *Graphic Design*
- *Audio/Video Specialist*
- *Production Assistant*
- *Traditional Media Production*
- *Web Page Designer*
- *Art Director*
- *Interactive Media Producer*
- *Illustrator*
- *Storyboard Artist*
- *Digital Photographer*
- *Animator*

**All two-year programs are part of our college partnership; students can earn college credit in high school if they meet the following criteria:**

- Maintain a 2.0 or higher GPA
- Maintain at least a 3.0 in their Career Tech program
- Successfully complete Tech Prep Algebra 2 or equivalent
- Maintain at least a 95% attendance rate.

# BUSINESS AND MANAGEMENT/ INFORMATION TECHNOLOGY

The Business and Management Career Cluster is a series of academic and technical courses with a focus on the dynamic world of business. Students in these areas can specialize in such subjects as banking & finance, accounting, administration, management, medical administrative support and hospitality. IT (Informational Technology) has opened the doors for many new careers in the technology sector. Programs are offered for those students interested in a career in technology, such as network administrator, multimedia programmer, and web designer.

## TWO-YEAR TECHNICAL PROGRAMS

*(Application and Interview Required)*



### COURSE OFFERINGS TWO-YEAR TECHNICAL PROGRAMS

#### Business and Management

- **Business Management 1 & 2**
- **Medical Office Management 1 & 2**

#### Information Technology

- **Networking (CISCO) 1 & 2**

#### SEMESTER ELECTIVES

(See page 20)

- **Computer Applications**
- **Personal Finance**

#### Business Management 1

**6100** **Full Year – 2 Credits**  
**Open to Grade 11** **10 Periods per week**  
*Prerequisite: Computer Applications , Algebra 1*  
*(completed or currently passing)*

#### Business Management 2

**6110** **Full Year – 2 Credits**  
**Open to Grade 12** **10 Periods per week**  
*Prerequisite: Successful Completion of Business Management 1.*  
*Suggested: Tech Prep Algebra 2 or equivalent*

This two-year program is designed for students who wish to pursue a career in business. Students will study accounting, entrepreneurship, marketing, human resources, risk management and budgeting. They will manage and run the Business Management Student Supply Center as a class

business. This is a store that sells a variety of items to the student body. Students must operate the register, handle sales transactions, prepare deposits, and maintain inventory levels.

Students will acquire skills in basic and advanced computer applications using Microsoft Word, Excel, Access, and Power Point and will take the Microsoft certification exams for each. They also learn the QuickBooks program while learning accounting. These experiences help students develop skills in organizing, planning, delegating and supervising.

- **Early Placement** –Work experience senior year, 10 hours per week in a related occupation.
- **College Credit Available**
- **Certification** –Microsoft Office Specialist in Word, Excel, Access and Powerpoint
- **Career Opportunities**  
 Office Manager  
 Business Manager  
 Entrepreneur  
 Office Assistant

Medical Office Management 1



**6930** Full Year – 2 Credits

**Open to Grade 11** 10 Periods per week

**Application & Interview Required**

*Prerequisite: Algebra 1 (completed or currently passing)*

*Suggested: Computer Applications*

Medical Office Management 2

**6940** Full Year – 3 Credits

**Open to Grade 12**  
**15 Periods per week**

*Prerequisite: Successful Completion of Medical Office Management 1*

*Suggested: Tech Prep Algebra 2 or equivalent*

Students in this two-year program will learn the skills needed to prepare for employment in a physician's office, clinic, or hospital. The typical physician rarely has time to attend to the administrative responsibilities of the office and is turning toward administrative assistants to schedule patients, maintain medical communications, manage financial records, and perform front-desk operations. Senior students will be scheduled for internships in the medical office field during year 2.

- **Certification** –Preparation for Microsoft Word and Excel
- **Early Placement** –Senior year, 12 hours per week in a related occupation.
- **College Credit Available**
- **Career Opportunities**
  - Medical Office Assistant
  - Medical Records Management

*\*Students must complete Algebra 2 or equivalent to be eligible for college credit.*

*\*Students must complete Tech Prep Algebra 2 or equivalent to be eligible for college credit.*

Networking/Cisco 1



**6975** Full Year – 2 Credits

**Open to Grade 11** 10 periods per week

*Prerequisite: Algebra 1*

*Application and interview required*

Networking/Cisco 2

**6980** Full Year – 2 Credits

**Open to Grade 12** 10 periods per week

*Prerequisite: Successful completion of Networking 1*

*Suggested: Tech Prep Algebra 2 or equivalent*

This is a two-year program. Designing, installing and maintaining computer networks are skills much in demand. Networking is a two-year college Tech Prep program that prepares students to take both the Cisco Certified Entry Network Technician (CCENT) exam and the industry-standard, Cisco Certified Network Associate (CCNA) exam. CCENT is an optional first step toward earning the Cisco CCNA certification which is the foundational certification for networking careers. With Cisco System's online curriculum and hands-on labs, students learn the latest industry networking standards and technologies, including network design, set-up, hardware maintenance and administration.

- **Early Placement** –Work experience 4<sup>th</sup> quarter senior year, 15 hours per week in a related occupation.
- **College Credit Available**
- **Career Opportunities**
  - Computer Networking and Enterprise Management
  - CISCO Certified Network Associate
  - Computer Systems Technician
  - CISCO Channel Partner
  - Network Operations Center
  - Network Engineer
  - Sales Support Engineer
  - Data Networking Technician

Average Salaries of Popular Certifications	
Cisco CCIE	\$110,283
Cisco CCSP	\$95,730
Cisco CCNA	\$79,695
CompTIA A+	\$68,631

Source: TechRepublic & Global Knowledge 2010 IT Skills and Salary Report

**\*Students must complete articulation requirements to be eligible for college credit.**

## ENGINEERING & SCIENCE TECHNOLOGIES MANUFACTURING TECHNOLOGIES & TRANSPORTATION SYSTEMS

Many occupations today require technical expertise. The Industrial and Engineering Department offers programs for the career minded and/or college prep student. If you are interested in such a career, check out the following program offerings.

### Automotive Technology 1

**6823**

**Open to Grade 11**

*Prerequisite: Algebra I (passed or currently passing)  
Application and interview required*



**Full Year – 4 Credits  
20 Periods per week**

### COURSE OFFERINGS

#### TWO-YEAR TECHNICAL PROGRAMS

- Automotive Technology
- Construction Trades
- Electronic Technology

#### FOUR-YEAR TECHNICAL PROGRAM

- Project Lead the Way – Pre-Engineering

This is the first year of a **two-year program** which follows curriculum based on ASE/NATEF guidelines (industry based). The first year covers shop and safety practices, tool and equipment handling and operation, as well as automotive detailing. Areas taught in the first year are: Brakes, engines, electrical systems, and steering and suspension. Classroom lessons correlate with active lab experiences using actual vehicles. Students receive a grade for related class and a separate grade for lab.

### Automotive Technology 2

**6820**

**Open to Grade 12**

*Prerequisite: Automotive Technology 1*

*Suggested: Tech Prep Algebra 2 or equivalent completed prior to or during the 12th grade.*

**Full Year – 3 Credits  
15 Periods per week**

The second year of the Automotive Technology program follows the same guidelines as year one. Areas covered are: heating and air conditioning systems, manual transmission and driveline components, and engine performance. All materials covered from the previous year are continually reinforced. Lessons in the classroom correlate with the active lab. A final end-of-program test is given to all students which aligns with the ASE/NATEF guidelines.

- **Early Placement** – Work experience 2<sup>nd</sup> semester senior year, 15 hours per week in a related occupation for students with a B (3.0) or higher
- **Certifications:** This program prepares students for ASE testing after graduation.
- **College Credit Available**
- **Career Opportunities:**
  - Auto Mechanic/Technician
  - Auto Dealership Technician
  - Parts Departments
  - Sales/Management
  - Alignment Specialist
  - Service Advisor/Writer
  - Maintenance Technician

**\*Students must complete Tech Prep Algebra 2 or equivalent to be eligible for college credit.**

### Construction Trades 1



**0580**                      **Full Year – 3 Credits**  
**Open to Grade 11**      **15 Periods per week**  
*Application and Interview required.*

This is the first year of a **2-year program**. The junior class will work in the lab at Lakewood High School. Students will focus on new home construction and remodeling. At the completion of the program, successful students will be certified in the core curriculum of NCCER (National Center for Construction and Education Research). Students are required to purchase their own tools and safety glasses.

### Construction Trades 2

**0590**                      **Full Year – 4 Credits**  
**Open to Grade 12**      **20 Periods per week**  
*Prerequisite: Construction Trades 1*

The second year of the Construction Trades program is designed to provide skill training in home remodeling and new home construction with an emphasis on carpentry. In the senior year students will do construction projects in the West Shore area.

- **Youth Organization:** Skills USA
- **Early Placement** – Work experience 2<sup>nd</sup> semester senior year, 15 hours per week in a related occupation.
- **Apprentice Opportunities** may be available
- **College Credit Available**



### Electronic Technology 1

**0740**                      **Full Year – 3 Credits**  
**Open to Grade 11**      **15 Periods per Week**  
*Application & Interview Required.*  
*Prerequisite Algebra 1 (passed or currently passing)*

## Electronic Technology 2

**0750**                      **Full Year – 3 Credits**  
**Open to Grade**        **15 Periods per Week**  
**12**

*Prerequisite: Electronic Technology 1*

*Suggested : Tech Prep Algebra 2 or equivalent*

Electronic Technology is a **two-year program** that will provide students the opportunity to explore fundamental concepts of electronic technology. Students will receive hands on training in direct current, analog, digital and microprocessor circuit operation and applications as well as communications and consumer equipment. Lab-centered training in robotics and industrial control offer students real world life experiences. Students purchase their own tools and safety glasses. With the Tech Prep options available, students can earn up to 15 college credit hours at Cuyahoga Community College while enrolled in the Electronic Technology Program.

- **Early Placement** –Work experience 2<sup>nd</sup> semester senior year  
15 hours per week in a related occupation
- **College Credit Available**
- **Career Opportunities:**
  - *Electronic Assembly*
  - *Security Systems Technician*
  - *Appliance Repair Technician*
  - *Industrial Electronics*
  - *Electrical Wiring*
  - *Cable Technician*
  - *Engineering Technician*
  - *Illuminating Company*
    - Sub Station
    - Lineman

**\*\*Students must complete Tech Prep Algebra 2 or equivalent to be eligible for college credit.**

## Project Lead the Way - 4 Years

**PLTW is a 4 course program for young men and women who want to explore careers in the many fields of engineering. Students who begin this program after 9<sup>th</sup> or 10<sup>th</sup> grade may take two courses during 11<sup>th</sup> and 12<sup>th</sup> grade.**

- **College Credit Available**
- **Career Opportunities:**
  - *Industrial Engineering*
  - *Mechanical Engineering*
  - *Civil Engineering*
  - *Electrical Engineering*
  - *Urban Planner/Design*

### **Project Lead the Way 4 Year Pathway:**

11<sup>th</sup> Grade - Introduction to Engineering

11<sup>th</sup> Grade - Principles of Engineering

12<sup>th</sup> Grade - Digital Electronics

12<sup>th</sup> Grade - Engineering Design and Development

*Learn more about this national program by going to [www.pltw.org](http://www.pltw.org)*

**\*Students must complete Tech Prep Algebra 2 or equivalent to be eligible for college credit.**



# FAMILY AND CONSUMER STUDIES: HOSPITALITY & TOURISM, EDUCATION AND TRAINING

The Family and Consumer Studies Department hopes to contribute to the students' overall development and understanding of family and societal issues. Courses are designed to offer students opportunities to develop valuable long-term life skills and to explore careers that help people in different ways.

## EDUCATION AND TRAINING TWO-YEAR PROGRAM

### Early Childhood Education/Senior Services 1



**0780**

**Full Year – 3 Credits**

**Open to Grade 11**

**15 Periods per Week**

*Application & Interview Required.*

*Suggested: Algebra 1*

### Early Childhood Education/Senior Services 2

**0790**

**Full Year – 3 Credits**

**Open to Grade 12**

**15 Periods per Week**

*Prerequisite: Early Childhood 1.*

*Suggested: Tech Prep Algebra 2 or equivalent*

## COURSE OFFERINGS

### TWO-YEAR TECHNICAL PROGRAMS

- **Early Childhood Education/ Senior Services**
- **Culinary Arts/ProStart Internship**

This is a **two-year program**. Experience an exciting and rewarding opportunity to work with young children or the elderly. Daily hands-on involvement with infants, toddlers, preschool, and kindergarten children, as well as senior citizens, is provided at off campus sites. Students work and acquire skills with a variety of age levels from infancy to geriatrics. A background check and interview are part of the selection process.

- **Early Placement** Work experience 2nd semester senior year, 15 hours per week in a related occupation.
- **Youth Organization:** FCCLA
- **Certifications:** Child Development Associate Portfolio, First Aid, CPR, Communicable Disease, Preventing Child Abuse
- **College Credit Available**
- **Career Opportunities:**
  - *Preschool Teacher*
  - *Day Care Teacher*
  - *Elementary School Teacher*
  - *Social Worker*
  - *Recreation Centers For Children*
  - *Nanny*
  - *Teacher's Aide*

**\*Students must complete Tech Prep Algebra 2 or equivalent to be eligible for college credit.**

# HOSPITALITY AND TOURISM

## Two-Year Program

ProStart is a **two-year curriculum** designed by the National Restaurant Association for students who wish to pursue a career in the food service/hospitality industry. **During year 1**, students will learn the fundamentals of food preparation. Students will prepare food items for the restaurant and catering events to gain real life experiences in the hospitality industry. **Near the end of their junior year students are expected to obtain a paid work experience and work part-time.** During year 2, students are responsible for the production and execution of the West Shore Career Technical restaurant, the Ranger Café @ West Shore. **Students are expected to continue to work in paid culinary arts and/or a hospitality position and earn a minimum of 200 hours to earn ProStart Certification.** Students will also gain on-the-job training working in the Ranger Café. Passage of both the ProStart 1 and 2 exams and the successful completion of work experience can lead to ProStart certification upon graduation. Transportation to work sites is the student's responsibility.

### Culinary Arts/ProStart Internship 1

8555

**Open to Grade 11**

*Application & Interview Required. Prerequisite: One foods class or food prep experience.*

*Suggested: Algebra 1*

**\*\*Students must take ServSafe and Culinary Arts/ProStart 1 at the same time.**



**Full Year – 3 Credits**

**15 Periods per Week**

- **Youth Organization:** FCCLA
- **Certifications:** ProStart
- **Early Placement:** Work experience senior year, 15 hours per week in a related occupation.
- **College Credit Available**
- **Career Opportunities:**
  - Pastry Cook
  - Kitchen Assistant
  - Short Order Cook/Prep Cook
  - Assistant Banquet Manager
  - Assistant Food and Beverage Manager
  - Baker/Chef/Cook
  - Dining Room Manager

### Culinary Arts/ProStart Internship 2

8565

**Open to Grade 12**

*Prerequisite: Successful completion of Culinary Arts/ProStart Internship 1*  
*Suggested: Tech Prep Algebra 2 or equivalent*

**Full Year – 3 Credits**

**15 Periods per Week**

### ServSafe

8560

**½ Year – ½ Credit**

**5 periods per week**

**Required of ProStart 1 (juniors) Students**

Prepare for certification by the National Restaurant Association (NRA) and the Ohio Department of Health (ODH). Completing this curriculum for food safety training will allow you to act as Person-in-Charge for food facilities, schools, churches, etc. Course covers principles of food microbiology, food borne diseases, standards and measures for prevention of food borne diseases. **This class is a requirement for all (and only open to) ProStart junior students first semester.**

**\*Students must complete Tech Prep Algebra 2 or equivalent to be eligible for college credit.**

# HEALTH SCIENCE

## Health Careers Technology 1 6950



Full Year—3 Credits  
15 Periods per Week

Open to Grade 11

Application & interview required

*Prerequisites: Algebra 1 (completed and/or passing) and Biology/Lab; meeting graduation requirements; must have a serious interest in learning to provide care to individuals with health issues.*

Health Careers Technology is a **two-year program** that introduces students to medical careers involving **hands on patient care in a variety of settings** including hospitals & nursing homes. The program provides State Tested Nurse Aide training – leading to entry level employment in the health care field. Admission into this program is highly competitive.

## Health Careers Technology 2

6960

Full Year—3 Credits  
15 Periods per Week

Open to Grade 12

*Prerequisite: Completed/passed Health Careers Technology 1; completed or enrolled in Algebra 2 or Tech Prep Algebra 2; meeting graduation requirements; passed OGT*  
*Suggested: Anatomy & Physiology, Chemistry*

Students use their training and skills in the clinical setting at Lakewood Hospital and other facilities in order to gain real experience. In addition, an emphasis on the study of disease, medical terminology and health care ethics provides the opportunity to earn college credit.

### **Additional opportunities include:**

- **Youth Organization:** Participation in HOSA (Health Occupation Students of America)
- **Certifications:** First Aid, CPR, State Tested Nurse Aide (STNA)
- **College Credit Available**
- **Preparation for Career Opportunities with Further Education:**

- Nursing: RN, LPN
- Pre-Medicine
- Pharmacist, Pharmacy Technician
- Physical or Occupational Therapy
- Radiologist, Radiology Technician
- Health Science Technologies  
(Ultrasound, Lab, EKG, Phlebotomy, Medical Assisting, Emergency Medical Tech)

## COURSE OFFERINGS

### TWO-YEAR TECHNICAL PROGRAM

- Health Careers Technology

### SENIOR YEAR COURSE

- Biotechnology

**\*Students must complete Tech Prep Algebra 2 or equivalent to be eligible for college credit.**

**Biotechnology**  
**6970**



**Open to Grade 12**      **10 Periods per week**  
*Prerequisite: 9<sup>th</sup>, 10<sup>th</sup>, and 11<sup>th</sup> Grade Science Requirements*

- *Advanced Biology*
- *Chemistry or AP Chemistry*
- *Physics or Calculus (completed or in senior year)*
- *Additional science course*

Biotechnology is a **four-year progression of coursework** designed for biological science majors. An emphasis is placed upon developing laboratory and research skills. Topics covered in this lab intensive course include: biochemistry, energetics, embryology, microbiology, and bioinformatics. Theory and practice of recombinant DNA methodologies are highlighted. Past, present, and future applications including ethical, political, and economic impacts of the biotech industry are presented.

- ***College Credit Available***
- ***Career Opportunities:***
  - *Biomedical Laboratory Technician/ Biomedical Engineer*
  - *Research Scientist*
  - *Agricultural Biotechnology*
  - *Genetic Engineering*
  - *Pharmaceutical Industry*
  - *Quality Assessment Technician*
  - *Forensics*
  - *Regulatory Agencies*
  - *Health*
  - *Food Production*
  - *Marketing and Sales*
  - *Bioinformatics*
  - *Manufacturing*
  - *Medical Field*

**Students must complete an exit exam in May of their senior year, complete Tech Prep Algebra 2 or equivalent, and maintain a B or higher GPA in all the pathway courses to be eligible for college credit.**

\*Students must complete Tech Prep Algebra 2 or equivalent to be eligible for Tech Prep credit.

**SEMESTER ELECTIVES**

**Exploring Childhood**

**8410**      **½ Year – ½ Credit**  
**Open to Grades 10-12**      **5 Periods per Week**  
*Prerequisite: No Prerequisite*

Discover more about yourself and your own development by exploring child development stages. Content includes the importance of healthy lifestyles during pregnancy, newborn care, stages of development in infancy, toddler and preschool years, the importance of play, communication, parenting skills, and child care careers. Guest speakers in their areas of expertise will offer insight. If you have any interest in elementary education, childcare careers, learning parenting skills, or learning more about how child development affects adult development, you should take this course. This course would be a good introduction to Early Childhood/Senior Services. *Baby Think It Over* is an optional project.

### Creative Cooking

**8310** **½ Year – ½ Credit**  
**Open to Grades 10-12** **5 Periods per Week**  
*Prerequisite: One foods class or food prep experience*

Explore basic food preparation techniques such as broiling, sautéing, baking, and poaching. Preparation includes working with yeast breads, making pasta from scratch and low fat cooking techniques. Use your creative skills by participating in a cooking contest. Explore career choices in the foods industry. This course is a good companion with Gourmet Foods and as a supplement or prerequisite to Culinary Arts.

### Gourmet Foods

**8350** **½ Year - ½ Credit**  
**Open to Grades 10-12** **5 Periods per Week**  
*Prerequisite: One foods class or food prep experience*

This course is a must if you want to advance your cooking skills beyond the basics. Food preparation includes making appetizers, salads, and pastries including pies, cream puffs, and working with puff pastries. Learn about food preparation and eating customs of other countries through our group foreign foods projects. Explore possible career choices in the foods industry. This course is a good companion with Culinary Arts and/or Creative Cooking and as a supplement to Culinary Arts.

### Experience with Foods

**8370** **½ Year – ½ Credit**  
**Open to Grades 10-12** **5 Periods per Week**  
*No Prerequisite*

Is a course for students who wish to learn how to cook and what to cook. Food categories you will experience include fruits, vegetables, pastas, salads, eggs, milk, cheeses, soups, meat, and breads. You will have the opportunity to choose new recipes and try new foods.

**8330** **½ Year – ½ Credit**  
**Open to Grades 10-12** **5 Periods per Week**  
*No Prerequisite*

Learn to prepare more nutritious & better tasting dishes than McDonald's and Burger King in Fast Foods! This class features timesaving food preparation techniques including use of appliances such as microwaves, food processors, woks, and blenders. Use convenience foods to make creative dishes in less time. Learn meal planning tips and how to prepare delicious meals quickly, using the computer as well as cookbooks for resources.

### Sports Nutrition

**8360** **½ Year – ½ Credit**  
**Open to Grades 10-12** **5 Periods per Week**  
*No Prerequisite*

Would you like to improve your physical and nutritional condition? This hands-on course offers the opportunity to analyze your own diet for improvements by using the computer and other means. Learn how to prepare nutritious foods and what foods are needed for peak performance. Learn about your BMI and how many calories you need a day.

### **Fashion Fundamentals**

**8210** **½ Year – ½ Credit**  
**Open to Grades 10-12** **5 Periods per Week**  
*No Prerequisite*

This is a sewing class! You will be constructing a simple skirt or pajama pants. You will be responsible for purchasing fabric and patterns for your projects. You will be creating a minimum of 2 sewing projects. Class activities will also include planning and care of wardrobe and evaluating quality construction in clothing. You can learn or enhance your skills, the possibilities are endless.

### **Independent Living**

**8470** **½ Year – ½ Credit**  
**Open to Grades 11-12** **5 Periods per Week**  
*No Prerequisite*

Independent Living is for those students who want to be prepared for adult life. Survival skills are taught to help ease the transition from living at home to living on your own. Topics covered are check writing, banking, consumer rights and responsibilities, insurance concerns, credit ratings, housing options, clothing maintenance and repair, and food preparation according to present dietary guidelines.

### **Personal Finance**

**6270** **½ Year – ½ Credit**  
**Open to Grades 10-12** **5 Periods per week**  
*No Prerequisite*

This course meets the Financial Literacy graduation requirement. Personal Finance will assist today's consumer in budgeting, checkbook writing and reconciliation, applying for and securing loans and investments. It will explore the effect of interest rates on savers and borrowers and the roles of people in the economy. Students will learn about the many financial issues they will face during their lifetime.

### **Computer Applications**

**6380** **½ Year – ½ Credit**  
**Open to Grades 9 - 12** **5 Periods per week**  
*No Prerequisite*

This course is recommended for all students in today's computer world. This course will introduce students to photo editing, computer drawing, basic computer maintenance, animation, web design, word processing, and spreadsheets. Software programs include Adobe Photoshop, Illustrator, Flash, and Dreamweaver. Also included are Microsoft Word and Excel.

# West Shore Program for Seniors

## Biotechnology

6970

Open to Grade 12



Full Year – 2 Credits

10 Periods per Week

*Prerequisite: 9<sup>th</sup>, 10<sup>th</sup>, and 11<sup>th</sup> Grade Science Requirements*

- *Advanced Biology*
- *Chemistry or AP Chemistry*
- *Physics or Calculus (completed or in senior year)*
- *Additional science course*

Biotechnology is a **four-year progression of coursework** designed for biological science majors. An emphasis is placed upon developing laboratory and research skills. Topics covered in this lab intensive course include: biochemistry, energetics, embryology, microbiology, and bioinformatics. Theory and practice of recombinant DNA methodologies are highlighted. Past, present, and future applications including ethical, political, and economic impacts of the biotech industry are presented. Students must complete an exit exam in May of their senior year, complete Tech Prep Algebra 2 or equivalent, and maintain a B or higher GPA in all the pathway courses to be eligible for college credit.

# SPECIALIZED CAREER-TECHNICAL PROGRAMS

## Service Occupations Training

Full Year – **4 Credits**

20 Periods per Week

*Recommended: Career Assessment Evaluation*

Today's hospitality industry is looking for people who enjoy variety and challenge. Service Occupations Training (SOT) is a one year program that provides students with classroom learning and real-life work experiences needed to take advantage of the many opportunities in this field. The program is housed at Lakewood Hospital where students train in food service, housekeeping, materials management, and clerical positions. Guest service, career exploration, and professionalism are other important components of this program.

## Community Based Training

Full Year – **4 Credits**

20 Periods per Week

*Recommended: Career Assessment Evaluation*

These programs provide students training in a variety of departments depending on their interests and abilities. These programs also help students assume responsibilities for important life decisions regarding jobs with the support of employers and teachers. Along with a teacher and educational aide, mentors within a company contribute to students developing competencies in social as well as work skills. This includes job exploration, time management, teamwork, and productivity.

## On-the-Job-Training/Work Study

Full Year – **0-4 Credits**

5 to 20 Periods per Week

*Recommended: Career Assessment Evaluation*

Students learn their occupational skills on the job. A job coach is provided if needed. The work involved is usually in single skill or entry-level positions. Credits are awarded as determined by the time spent on the job and approval of the Career-Technical Director.

## Community Work Training Program

**Rae-Ann Suburban  
Nursing Facility**

Full Year – **4 Credits**

*Recommended: Career Assessment Evaluation*

Students from the West Shore Associate schools work in the afternoon at this facility. With supervision, students receive training in the following departments:

- Food Service
- Laundry/Housekeeping
- Clerical
- Maintenance Department
- Grounds Keeping

The goals of this program are for students to gain experience in specific work skills and to develop independence and interest areas for future employment.



Name of Applicant \_\_\_\_\_

To the Guidance Counselor:

Please help us select and/or place this student in the most appropriate Career-Technical program by completing this side of the application and attaching a current transcript. Send both to the West Shore Career-Technical office at Lakewood High School, 14100 Franklin Blvd., Lakewood, OH 44102. Thank you.

Does this applicant meet the *Suggested Skills for Individual Programs* criteria? \_\_\_\_\_

Comments:

Do you recommend this applicant for this program? \_\_\_\_\_

IF **NOT** PLEASE STATE REASON WHY (application will be held until conference with counselor)

Comments:

**For two-year program applicants**

Have you discussed the program's 2-year commitment with the applicant? \_\_\_\_\_

Comments:

Have you and the applicant determined that there will be room in the senior year schedule for the second year of the West Shore program? \_\_\_\_\_

Comments:

Counselor Signature \_\_\_\_\_

Date \_\_\_\_\_

## Summary of Programs

West Shore Career and Technical Programs	First Year	Second Year
Auto Technology	4 periods a.m.	3 periods p.m.
Biotechnology	2 periods p.m.	<b>Senior Year Only</b>
Business Management	2 periods a.m.	2 periods p.m.
Construction Trades	3 periods p.m.	4 periods a.m.
Culinary Arts/ ProStart	4 periods a.m. (1 <sup>st</sup> semester) 3 periods a.m. (2 <sup>nd</sup> semester)	3 periods p.m.
Early Childhood Education/Senior Services	3 periods a.m.	3 periods a.m.
Electronics Technology	2 periods a.m.	3 periods p.m.
Health Careers Technology	3 periods p.m.	3 periods a.m.
Interactive Media	3 periods a.m.	3 periods p.m.
Job Training: Bonne Bell, Marriott, Rae Ann, Winking Lizard, Work Study	<i>By recommendation; schedule varies; 1 year commitment</i>	
Medical Office Management	2 periods a.m.	3 periods p.m.
Networking/Cisco	2 periods a.m.	2 periods p.m.
Project Lead the Way	1 period in each grade 9-12 <b>or</b> 2 periods in grades 11 and 12	
Service Occupations Training	4 periods a.m.	<i>By recommendation; 1 year commitment</i>

# **ROCKY RIVER HIGH SCHOOL ADMINISTRATION** **and STAFF**

*Principal*, Debra M. Bernard  
*Associate Principal*, Alan Wilhelms  
*Assistant Principal*, Jeffrey Schultz  
*Director of Athletics and Activities*, Mark Wagner

*Counselors*: Candace Hecker, Julie Morriss, Jeff Petrusis

## **ART**

Jennifer Bueck  
Patricia Tobin\*

## **BUSINESS**

Derek Davis

## **FAMILY &**

## **CONSUMER SCIENCES**

Kristen Kalinowski

## **ENGLISH**

Jacqueline Daugherty\*  
Jennifer Garver  
John McKenna  
Stephanie Minotti  
Ashley Morris  
Michael Sislowksi  
Rebecca Taylor  
Joseph Toner  
Erin Voight

## **WORLD LANGUAGE**

Kari Barkin  
Emily Collins  
Jeanette Escobedo  
Luis Escobedo\*  
Andrea Reynolds  
Suzanne Toppel

## **MEDIA CENTER**

Yvonne Morbitzer\*

## **MUSIC**

Marissa Lange  
Kirk Taylor\*

## **MATHEMATICS**

Nicole Altenweg  
Michael Antonelli  
Elizabeth Delzani  
Deborah Pelger  
David Ploenzke  
Joanne Ritschel  
Russell Shuster  
Kristen Stephens\*  
Eric Tuokkola

## **SOCIAL STUDIES**

Richard Adams  
Matthew McLaughlin  
Adam Moeller  
Susan Richardson  
Richard Schuler\*  
Jenveva Schumacher  
Sara Ziemnik

## **TECHNOLOGY**

Christina Bright

## **HEALTH/FITNESS**

Julie Achladis  
Sandra Bricker  
Mike Murray

## **SCIENCE**

Lisa Borgia  
Ann Brokaw  
Daniel Draeger  
Brian Frew  
Daryl Knauss\*  
Gina Mingo  
Sara Olinger  
Cindy Zebris

## **SPECIAL EDUCATION**

Mary Baddour  
Karyn Barrett  
Kelly Bennett  
Diane Boylan\*  
Sharron Brown  
Mark Hogya  
Shawna MacDonald  
Ericka Mathews

*\*Denotes Department Coordinators*

**ROCKY RIVER HIGH SCHOOL ALMA MATER**

***WHERE THE WATERS ROCKY RIVER BLEND WITH LAKE ERIE,***

***STANDS OUR NOBLE ALMA MATER THRONED IN MAJESTY***

***SING HER PRAISES NEVER CEASING***

***WE SHALL EVER CRY,***

***“THEE WE HONOR, ALMA MATER ROCKY RIVER HIGH.”***