

COURSE CATALOG

2022 - 2023



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Non-discrimination Policy

Washington Unified School District Nondiscrimination Policy (BP 5145.3)

The Governing Board desires to provide a safe school environment that allows all students equal access and opportunities in the district's academic, extracurricular, and other educational support programs, services, and activities. The Board prohibits, at any district school or school activity, unlawful discrimination, including discriminatory harassment, intimidation, and bullying, targeted at any student by anyone, based on the student's actual or perceived race, color, ancestry, national origin, immigration status, nationality, ethnicity, ethnic group identification, age, religion, marital or parental status, physical or mental disability, sex, sexual orientation, gender, gender identity, or gender expression or association with a person or group with one or more of these actual or perceived characteristics.

For questions or complaints, contact the Equity Compliance Officer, Title IX coordinator, and Section 504 coordinator.

Equity Compliance Officer/Title IX Coordinator
(Matters pertaining to students)

Andre Phillips
Director of Student & Family Support Services
(916) 375-7600 x 1370
aphillips@wusd.k12.ca.us

Equity Compliance Officer/Title IX Coordinator
(matters pertaining to employees)

Section 504 Coordinator
Kamaljit Pannu
Assistant Superintendent, Human Resources
(916) 375-7604 ext. 1046
kpannu@wusd.k12.ca.us

Graduation Requirements

Graduation requirements are set by the WUSD Board of Trustees. Five credits are awarded per quarter to students who earn a grade of A, B, C or D in coursework.

<u>Minimum Course Requirements</u>	<u>Credits</u>
Subject Area:	
English	40
Mathematics	30
Must include Integrated Math 1 and 2	
Science	20
Life Science (10 credits)	
Physical Science (10 credits)	
Social Science	30
World History (10 credits)	
US History (10 credits)	
US Government (5 credits)	
Economics (5 credits)	
Physical Education	20*
* students who do not pass state physical fitness tests will be required to take additional courses in PE	
Building Foundations for Success	10
Visual and Performing Arts	10
World Language (must be same language)	20
Electives	70
may include Driver Education, and/or additional subject areas as adopted or revised.	
Total credits required	250 credits

Service Learning: 8 hours per year with required documentation (<http://bit.ly/servelearn>)

RCHS is on a 4x4 block schedule. In simple terms, a 4x4 is a schedule where students take 8 ten credit classes; 4 in the fall and 4 in the spring. These are called terms. Each of the four classes meets each day for about 90 minutes. It is a good idea for students to map out the courses they would like to take in a four year plan. Please remember every plan can be customized to the individual student's need. Please refer to the course descriptions when choosing classes. Be aware of requirements for graduation, college entrance, sports eligibility and specialized programs. Individual schedules will vary, but a typical freshman schedule might look like the following:

Student Name		Student#	Grade				
			9				
School			Enter Date				
River City High School			8/15/2018				
Class Schedule				Counselor: Price			
Per	Sm	Days	Sec#	Course ID	Course Title	Teacher Name	Room
1	F	MTWTF	1105	0490	Intro EngrngDes	Faout	752
2	F	MTWTF	1232	0290	PE Indiv Sports	Long	Gym
3	F	MTWTF	1337	0403	French 1	Spencer	803E
4	F	MTWTF	474	0229	Intgrted Math 1	Arreola	606
1	S	MTWTF	1131	0719	Guitar I	Weatherly	203
2	S	MTWTF	238	0492	Princip Bio Sci	Saad	706
3	S	MTWTF	390	0152	English 9	Sawyer	303E
4	S	MTWTF	1438	0553	BldgFnd Success	Spivey	607
							Date
							11/6/2018

Higher Education Admission Requirements

CHOOSING A COLLEGE

It is important to begin your college planning early in high school. There are several types of schools for higher learning: Community colleges, California State University system, University of California system, private colleges/universities, and vocational schools.

COMMUNITY COLLEGES / VOCATIONAL SCHOOLS

Graduation from high school, state proficiency certificate, or a minimum age of 18 years old are the only requirements for Community College admission. There are no subject or grade requirements. There are three primary programs in most community colleges: (1) 2-year college degree (AA/AS), (2) special training in technical fields, and (3) 2 years of general education for transfer to a 4-year university. Some Community Colleges are now offering Bachelor's degrees in selected programs. <https://www.cccco.edu/>

UNIVERSITY

Students wishing to attend a public or private four year college or university should consult the school's website for individual requirements including but not limited to GPA and SAT/ACT test score eligibility index.

California State University : <https://www2.calstate.edu/>

University of California : <https://www.universityofcalifornia.edu/>

Independent California Colleges and Universities : <https://www.aiccu.edu>

UC APPROVAL LISTS : RCHS SCHOOL CODE 053740

The A-G / College Entrance Requirements are a sequence of high school courses that students must complete (**with a grade of C or better**) to be minimally eligible for admission to the University of California (UC) and California State University (CSU). *They represent the basic level of academic preparation that high school students should achieve to undertake university work.*

A-G Area	Subject	Required	Description
A	SOCIAL SCIENCE	2 YEARS	MUST INCLUDE WORLD and US HISTORY
B	ENGLISH	4 YEARS	MUST BE COLLEGE PREP OR HIGHER
C	MATH	3 YEARS (4 Rec.)	MUST INCLUDE INTEGRATED MATH 1,,2, 3 or >
D	SCIENCE - LIFE SCIENCE - PHYSICAL	1 YEAR 1 YEAR	MUST BE LAB SCIENCES (3 YR Recommended) BIOLOGY*, CHEMISTRY*, PHYSICS (Standard) *Check Catalog for courses that may substitute.
E	WORLD LANGUAGE	2 YEARS (3-4 Rec.)	MUST BE SAME LANGUAGE
F	VISUAL/PERFORMING ARTS	1 YEAR	
G	COLLEGE PREP ELECTIVE	1 YEAR	

Seal of Biliteracy

Earn a CA State Seal of Bi-literacy on your high school diploma. The Seal of Bi-literacy is an accolade presented by a school, district or county office of education to recognize a student who has demonstrated proficiency in two or more languages by high school graduation. The seal encourages students to pursue bi-literacy, honors the skills our students attain and can be evidence of skills that are attractive to future employers and college admissions offices.

To earn the Seal students must meet all of the following:

- Completion of all English language arts requirements for graduation with an overall grade point average of 2.0 or above.
- Passing the California Standards test in English language arts administered in grade 11 at the proficient level or above.
- For English learners not reclassified, attain the overall early advanced level on the English language development test.

In addition, students must meet one of the following:

- Passing a World Language Advanced Placement examination with a score of 3 or higher.
- Passing an International Baccalaureate examination with a score of 4 or higher.
- Successful completion of a four-year high school course of study in a world language and attaining an overall grade point average of 3.0 or above, and demonstration of oral proficiency in the language comparable to that required to pass an AP or IB examination.
- Passing a school district language exam that, at a minimum, assesses speaking, reading and writing passing at a proficient level or higher.
- Passing the SAT II world language examination with a score of 600 or higher.

Athletes and College

Students interested in playing sports in college should follow the guidelines of the NCAA in choosing classes that align with the Clearinghouse and college entrance requirements.

NCAA DIVISION I Core-Course Rule

Complete 16 core courses:

Four years of English

Three years of math (Integrated 1 or higher)

Two years of natural/physical science (including one year of lab science)

One additional year of English, math or natural/physical science

Two years of social science

Four additional years of English, math, natural/physical science, social science, foreign language, comparative religion or philosophy

Complete 10 core courses, including seven in English, math or natural/physical science, before the seventh semester (before Senior Year). Once students begin their seventh semester, they may not repeat or replace any of those 10 courses to improve their core-course GPA.

Earn at least a 2.3 GPA in their **core courses**.

Earn an SAT combined score or ACT sum score matching their core-course GPA on the Division I sliding scale, which balances their test score and core-course GPA. If students have low test scores, they need a higher **core-course** GPA to be eligible. If they have a low core-course GPA, they need a higher test score to be eligible.

TAKING COLLEGE CLASSES IN HIGH SCHOOL (ADVANCED EDUCATION)

Advanced Education is intended to provide high school students with educational enrichment opportunities through their local Community Colleges. If you will be a high school junior or senior in grades 11-12, or at least 16 years of age by the first day of instruction, and you have a GPA of 2.7 or higher, you may be eligible to enroll in a maximum of two courses each semester on Advanced Education Status. Grades earned in Advanced Education courses will NOT receive a grade bump on a student's permanent high school transcript. The course credit and grade the student receives will become part of his or her permanent college record and must be submitted as such on college applications.

You must follow these steps for each semester you wish to enroll as an Advanced Education Student.

1. Read and complete the entire Advanced Education Application by visiting www.scc.losrios.edu/admissionsrecords/advancededucation/. Your high school counselor must recommend specific courses and the form must be signed by your high school principal or designated counselor / administrator, your parent /guardian, and you.
2. New Advanced Education Students: Complete the SCC application online indicating that you are an advanced education student and not a new or transfer student www.scc.losrios.edu/apply/. Continuing Advanced Education Students: Complete the supplemental form through Eservice.
3. New Advanced Education Students: Complete the Los Rios online orientation after receiving your Los Rios Student ID number. Print out the certificate of completion that is sent to your Los Rios Gmail account. All correspondences will be sent to your "W" address.
4. All Advanced Education Students: Complete a typed statement explaining how you meet the criteria for Advanced Education. Attach a current copy of your high school transcripts.
5. Advance Education students must register in person at SCC Admission & Records or West Sacramento Center or Davis Center. Parents / Guardians may not register their student.
6. After submitting your Advanced Education packet, you will receive a confirmation email through your "W" email address.
7. New Advanced Education Students are required to attend a new advanced education student workshop. At this workshop an SCC counselor will provide additional information regarding your next steps.

Courses Not Allowed through Advanced Education:

- Basic skills courses numbered below 100.
- Courses being repeated due to unsatisfactory high school grades.
- Courses in which the safety of the student or others would be jeopardized.
- Courses with an adult or mature subject matter not appropriate for high school students.

Additional Advanced Education Program Information:

- Exceptions to the 2.7 GPA are courses in Human Career Development.
- Enrollment fees are waived for California residents but advanced education students will be charged the mandatory UTP fee and will be entitled to receive the Student Access Card.
- Advanced Education Students will use their Los Rios gmail account for all communication.
- The course credit and grade the student receives will become part of his or her permanent college Record.

For more information about Advanced Education process, updates, and/or due dates visit:

www.scc.losrios.edu/admissionsrecords/advancededucation/

ADDING AND DROPPING COURSES

As personnel, facilities and material resources are assigned based on the student's **Course Request Forms**, it is imperative that students choose courses carefully (including alternates) during spring registration. Changes to students' schedules create an impact on many other courses and, therefore, will only be made on a limited basis. If a student changes his/her schedule three weeks into the semester, that student is already behind in learning. Therefore, RCHS administration has established the following schedule change policy to promote academic success for students.

Students will be expected to keep the courses they selected. An exception to this will be made if a student meets one of the criteria listed below. If a forecast sheet is not received, a counselor will create a schedule for the student based on credits and course needs.

Valid reason for student / parent initiated schedule changes are limited to:

1. Duplicate period error (i.e. two classes during the same period are listed on your schedule)
2. Incomplete schedule (i.e. missing class period on your schedule)
3. A senior missing a class required for graduation.
4. Inappropriate academic placement (i.e. you are in Spanish 2 but have not passed Spanish 1)
5. A student has a physical / medical reason, documented by a medical professional that will prevent participation in a class.

Student / parent initiated schedule change requests must be submitted, via e-mail by the date/time posted on the RCHS website *during the schedule change request window*. All change requests will be processed and students will be notified of the disposition of their request, essentially locking all student schedules at the end of the 5th school day of each semester. If a student or parent-initiated schedule change is made after the 5th day of enrollment, the student's grade will be determined by their new teacher based on the grade the student had in the dropped course. In addition, the new teacher may require the student to make up assignments missed from the start of term. If a student chooses not to complete an assignment, a "0" may be entered in the gradebook for that assignment, therefore negatively affecting the grade in the new class. **NOTE: Any course dropped after the third week of a semester may be listed on the transcript as a failing grade.**

Teacher initiated schedule changes may be made when a teacher recommends a student be moved from one level or another within the same subject area. Teachers will contact the parent /guardian to discuss the change and, if agreed upon, the teacher will contact the student's administrator to recommend the change.

Students must follow their original schedule until they are notified the change has been made.

ATTENDANCE

Regular attendance is vital to a student's success in school. The student who is frequently absent misses social interaction and direct instruction from his/her teachers even though written work can be made up. Any day or hour absent is a missed learning opportunity. While we know students do become ill and are unable to attend school, the average number of days missed due to illness is 3 (three) per school year. Absences must be excused by a parent in a timely manner. Please see the Frequently Asked Questions page regarding Attendance at <http://bit.ly/rchsattFAQ> and monitor your child's attendance through the Aeries Parent Portal.

SPECIAL EDUCATION

Special Education at River City High School is integrated. Special education students at RCHS attend the majority of their classes with general education students and participate in all aspects of campus life including sports, clubs, and community service. Most special education students are working toward a diploma while some are working toward a certificate of completion (mild/moderate disabilities) or a certificate of achievement (moderate/severe disabilities).

Classes for students receiving special education services are based on individual needs. **All students with Individual Education Plans (IEP) have access to core curriculum and electives based on specialized academic instructional needs.** For questions regarding your child's IEP please contact your student's case manager.

For questions regarding placement or case managers, please contact the Program Specialist at the WUSD District Office, 916-375-7600 x1361.

General Education Classes

Whenever appropriate, students with disabilities will be educated in the general education classes. In addition, whenever possible, they will attend the school they would ordinarily attend.

General Education Classes with Related Services

In addition to general education, related services may be provided to assist students with disabilities to benefit from their general education program. Some examples of related services are language and speech services, adapted physical education, counseling, physical, and occupational therapy.

Special Day Classes

Special Day Classes serve students who, because of their disabilities, cannot participate in general education classes for a majority of the school day. As appropriate, students enrolled in Special Day Classes interact with their general education peers through academic, non-academic and extracurricular activities. Students in the SDC Mild / Moderate program will be scheduled in Core Skills courses, i.e. English Skills, Math Skills, Science Skills, History Skills. Students in Mod / Severe program will be scheduled in ILS (Independent Living) Core courses.

Scheduling for Students with an IEP will be done with the guidance of Student Case Managers. Students may see the following Course Offerings on their Course Request Sheet in addition to Elective and General Education courses:

ACADEMIC SUCCESS

Year: 9-12 RCHS Graduation Requirement: Elective

The Academic Success class is designed to support students with disabilities academic achievement and planning for the transition from school to adult living. Students will be provided direct instruction in study skills, writing, organization and planning for the transition from high school to post-secondary education, training or work.

COMPUTER SCIENCE SKILLS

Year: 9-12 RCHS Graduation Requirement: Elective

Basic Computer Science is an introductory computer science course whose emphasis is to enable students to develop a mastery of basic operations of the personal computer. Topics will include using a computer to solve problems, web development, animations and games.

SKILLS CLASSES

Year: 9-12 RCHS Graduation Requirement: Fulfills Certificate or SDC Diploma Track
English, Math, Science, and Social Science Skills

SELF CONTAINED CLASSES

Year: 9-12 RCHS Graduation Requirement: Fulfills Certificate
Independent Living Skills Core Courses

BRYTE CAMPUS

Bryte College and Career Training campus is River City High School's extension campus located in northern West Sacramento. The extension campus is noted for its popular Career Technical Education (CTE) programs in Culinary Arts, Ag Science - FFA, and Construction - BITA. Bryte CCT is located at 637 Todhunter Avenue in West Sacramento. You're invited to visit Bryte CCT before school starts to check out the campus.

Students will be transported between RCHS and Bryte by District bus. Please contact transportation for a bus schedule. **Buses begin pickup at 6:45 am for transfer to Bryte.**

Students attend the Bryte extension campus two periods a day and spend two periods a day at River City. Students may attend morning classes at Bryte and then take the bus back to River City for their afternoon classes or attend morning classes at River City then take the bus to Bryte for afternoon classes.



CAREER TECHNICAL EDUCATION

<http://bit.ly/RCCTEvideo> Pathways

Washington Unified School District Career and Technical Education (CTE) programs prepare students by providing them with industry-specific knowledge and skills critical for successful employment in a wide range of high-wage, high-skill, and high-demand careers.

WUSD's Career Technical Education Department offers sequences of courses or pathways in 9 career areas. Learn more about WUSD's Career and Technical Education pathways. With the aid of local industry partners, many of our programs offer work-based learning opportunities including mentoring, guest speakers, job shadowing, and internships.

Each of our career and technical education pathways prepares students to enter employment directly following high school and/or prepares students to continue their educational and career goals in aligned programs at local colleges. In addition, our programs have been designed with regular input from advisory committee members who keep our programs relevant with up-to-date industry expectations and standards.

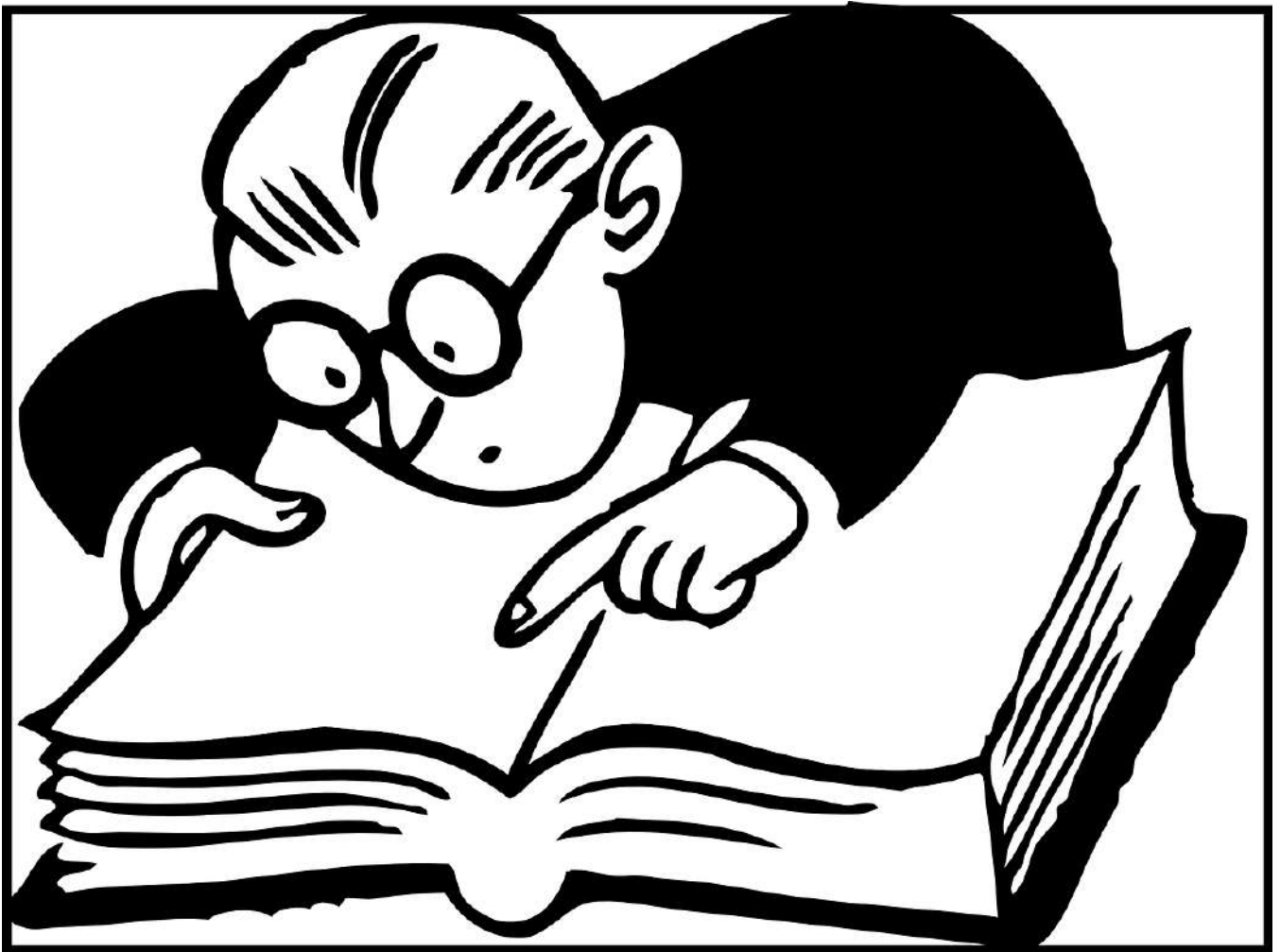
Combined with other academic offerings, students enrolled in Career Technical Education are able to meet UC/CSU A-G college entrance requirements as well as high school graduation requirements and career goals. In addition, several classes also get articulation credit with Los Rios Community College.

Check the Course Descriptions for articulation possibilities.

Courses offered at the Bryte Campus currently or planned may be indicated by a bus symbol:



COURSE DESCRIPTIONS



COURSE LIST : see descriptions for grade level and pre-requisites. Use hyperlinks to jump to sections.

PHYSICAL EDUCATION

PE Individual Activities
PE Team Sports
PE 1

ENGLISH

ELD 9/10/11/12
English 9
English 9 Honors
English 10
English 10 Honors
English 11
English 12 (ERWC)

MATH

Integrated Math 1
Integrated Math 2
Transition to Quantitative Reasoning
Integrated Math 3
Quantitative Reasoning
Statistics
Pre Calculus
Personal Finance

SCIENCE

Biology
Innovations in Green Technology
Energy and Environmental Design
Chemistry
Pre AP Chemistry
Physics

SOCIAL SCIENCE

World Hlstory
US History
Government
Economics

VISUAL & PERFORMING ART

2 Dimensional Design
3 Dimensional Design
Digital Photography
Ceramics
Advanced Ceramics
Introduction to Professional Theater
Advanced Theater Performance
Advanced Dance
Beginning Band
Marching Band
Wind Ensemble
Symphonic Band
Big Band
Beginning Strings
Chamber Orchestra
Jazz Band
Guitar
Guitar 2
Piano
Piano 2
Digital Music Production
Concert Choir
Chamber Orchestra
Advanced Vocal Ensemble

WORLD LANGUAGE

Spanish 1 / 2 / 3 / 4
Spanish Language Arts 1 / 2
French 1 / 2 / 3 / 4
Chinese 1 / 2 / 3 / 4
Russian 1 / 2 / 3 / 4
Russian Language Arts 1 / 2 / 3

ADVANCED PLACEMENT COURSES

AP World History: Modern
AP US History
AP Government/ Honors Economics
AP English Language and Composition
AP English Literature and Composition
AP Statistics
AP Calculus AB
AP Calculus BC
AP Computer Science Principles
AP Computer Science A
AP Biology
AP Chemistry
AP Physics 1
AP Environmental Science
AP Spanish
AP French
AP 2D Art and Design (AP Studio Art)

ELECTIVE PROGRAMS

DEPARTMENT ELECTIVES

Dance Beginning
Dance Intermediate
Dance Advanced
PE Advanced Team Sports
PE Leisure Sports (Advanced Individual)
PE Basketball
PE Weightlifting
PE Soccer
Introduction to the Craft of Poetry
Science Fiction in film and literature
Creative Writing
Film and Literature
Introduction to Animal Science
Forensic Science
Criminal Law/ Mock Trial
Psychology
Art Hlstory
Introduction to Ethnic Studies
Women and Gender Studies

STUDENT ENGAGEMENT

AVID
Avid Tutor
Building Foundation of Success
Senior Seminar
Peer Mediation
Leadership

AGRISCIENCE ACADEMY

Ag Biology
Farm to Fork 1
Farm to Fork 2

**PROJECT LEAD THE WAY
BIOMEDICAL PATHWAY**

PLTW Principles of Biomedical Science
PLTW Human Body Systems
PLTW Medical Interventions Honors
PLTW Biomedical Innovations Honors
PLTW Anatomy and Medical Tech.
PLTW Emergency Medical Responder

**PROJECT LEAD THE WAY
ENGINEERING**

PLTW Introduction to Engineering Design
PLTW Honors Civil Engineering and
Architecture
PLTW Digital Electronics
PLTW Engineering Design and
Development

ELECTRONICS ACADEMY

Intermediate Electronics
AC/DC Circuitry
Digital Electronics/Semiconductor Acad
CMOS Mask Design

HOSPITALITY

Culinary 1
Restaurant, Catering and Commercial
Food production
Culinary 2

**COMPUTER SCIENCE AND
ENGINEERING PATHWAY**

Computer Games Design And
Programming
See AP CSP & CSA for class 2 & 3 in
Pathway

ROBOTICS

Robotics Engineering 1
Robotics Engineering 2

CONSTRUCTION

Building Industry Technology Academy
(BITA) Level 1
Building Industry Technology Academy
(BITA) Level 2

MEDIA STUDIES

Beginning Video Production
Advanced Video Production
Journalism
Yearbook

STAFF ASSISTANCE

Office / Library Aide
Teacher Aide

PHYSICAL EDUCATION

All 9th grade students will take PE Individual to fulfill their freshman year PE requirement. All 10th grade students will take PE Team, or Intermediate Dance*. Additionally, students who fail a PE course will automatically be placed in PE 1 until they have met the minimum credit requirements. ***Students who do not pass their Physical Fitness Exams by the end of their sophomore year will be scheduled in an elective PE course the following year.*** Students who have passed the Fitness Exams AND their minimum PE credits toward graduation may sign a [waiver](#) to opt out of additional years of PE. For more information please view the [WUSD PE Policy](#)

PE Clothes are required. Students may purchase a PE uniform (shirt, shorts) from the student store for \$18.00. Students may wear solid color sweats in Navy, Gray, or Black. Athletic Shoes are required. Dance students must have appropriate shoes / apparel according to the syllabus. All students will be provided with a combination lock. Valuable items should be left at home. River City High School is NOT responsible for theft, damage, or loss of any items. Lockers are school property and are subject to being opened by school staff. Students should be careful to lock all belongings prior to the start of the PE period. Students should not share locker combinations and all students should understand that combination locks represent a deterrent to theft but do not prevent it entirely.

PE Individual Activities

Year: 9 RCHS Graduation Requirement: PE

This course focuses on physical and recreational activities. All of the activities include aspects of conditioning, skill development, offensive and defensive strategies and self evaluation in individual activities. There is an emphasis on activities preparing the student for a lifetime of fitness and recreation. Some of the activities include swimming, dance, gymnastics, badminton, ultimate Frisbee, and tennis. This class also includes a 4 week health unit in the classroom, as well as, state fitness testing.

PE Team Sports

Year: 10 RCHS Graduation Requirement: PE

The goal of this class is to continue to educate the student in physical education through involvement in team sports. There is an emphasis on activities preparing the student for a lifetime of fitness and recreation. The students will change activities every 3 - 4 weeks. These activities include basketball, soccer, flag football, combatives and volleyball.

PE 1

Year: 11 - 12 RCHS Graduation Requirement: PE

Prerequisite: Students deficient in PE Credits / Students who have not passed State Physical Fitness Exams. This course is a combination of PE Team and PE Individual activities. It will contain units in fitness, nutrition, safety, basketball, soccer, ultimate, volleyball, disc golf, gymnastics, and self defense.

*PE Intermediate Dance can be taken in place of PE Team in the 10th grade, or as an Elective PE in 11th or 12th grade, if the student has passed a Beginning Dance Elective.

ENGLISH

ESL / ELD

Year: 9 - 12 RCHS Graduation Requirement: English

Prerequisite: Placement by Language Development Specialist. Yearlong

Students still in the process of acquiring English and not yet demonstrating full fluency in English will be assigned to a daily English class. Class content will mirror equivalent college prep English courses and also provide daily ELD instruction while moving students toward reclassification standards.

English 9

Year: 9 RCHS Graduation Requirement: English UC/CSU - B

Students will be guided toward mastery of the Common Core state standards in reading and writing, speaking and listening, and grammar skills while surveying the elements of literature.

English 9 H - Note: Honors weight available ONLY for high school GPA. UC/CSU does not award weighted credit for this course

Year: 9 RCHS Graduation Requirement: English UC/CSU - B

Prerequisite: Proficient or Advanced on SBAC ELA Test, successful completion of 8th grade English.

In addition to focusing on the mastery of standards covered in English 9, students will be expected to complete the reading of approximately four outside readings of novels organized by thematic units. Emphasis will also be placed on analytical essays pertaining to the thematic units, rather than the standard essays, already covered in the 8th grade.

English 10

Year: 10 RCHS Graduation Requirement: English UC/CSU - B

Students will be guided toward mastery of the Common Core state standards in reading and writing, speaking and listening, and grammar skills while surveying in more depth the elements of literature.

English 10 H

Year: 10 RCHS Graduation Requirement: English UC/CSU - B

Prerequisite: Successful completion of English 9, application and writing sample*

English 10 Honors will focus on the application of the Common Core state standards through advanced composition. Both classic and contemporary novels, as well as supplemental materials will be used to develop critical thinking and analysis. In addition there will be a heavy focus on vocabulary development, complex language skills, grammar usage and mechanics, and the clear conveyance of ideas through both writing and public speaking.

English 11

Year: 11 RCHS Graduation Requirement: English UC/CSU - B

Students will be guided toward mastery of the Common Core State Standards in reading and writing, speaking and listening, and grammar skills while focusing on works of American literature.

ERWC (English 12)

Year: 12 RCHS Graduation Requirement: English UC/CSU - B

This class is an expository reading and writing course. Students explore the art of exposition as it is used to illustrate, define and understand the world we live in. Students will work to improve their critical reading and writing skills by analyzing and critiquing academic and real-world expository texts. Vocabulary development, public speaking and grammar instruction will be integrated into all units.

MATH

[Math Sequence Link](#)

Please note, students may double up on math courses starting in their sophomore year.

Integrated Math 1

Year: 9 - 12 RCHS Graduation Requirement: Mathematics UC/CSU - C

The purpose of Integrated Math 1 is to formalize and extend the math that students learned in the middle grades and prepare students for higher levels of mathematics. The critical areas deepen and extend understanding of linear relationships, in part by contrasting them with exponential functions, and in part by applying linear models to data that exhibit a linear trend. Integrated Math 1 uses properties and theorems involving congruent figures to deepen and extend understanding of geometric knowledge acquired in prior grades.

Note for Incoming Freshmen: *Students planning to take the challenge test to start in Math 2 will be placed in Math 1 until we receive results in the summer. Students who meet the required score on the challenge test will automatically be placed in Math 2. Sign ups for current WUSD students to take tests will be organized through the 8th grade teachers by recommendation only. Please note, students are still required to complete a minimum of three years of math regardless of placement. Students outside of the WUSD system and or Private school/Charter students must provide a current report card and recommendation letter and contact the RCHS Main Office to schedule a challenge test prior to classes starting.*

Integrated Math 2

Year: 10 - 12 RCHS Graduation Requirement: Mathematics UC/CSU - C

Prerequisite: "C-" or better in Integrated Math 1

The focus of Integrated Math 2 is on quadratic expressions, equations, and functions; comparing their characteristics and behavior to those of linear and exponential relationships from Integrated Math 1. Students bring together all of their experience with functions and geometry to create models and solve contextual problems.

Transition to Quantitative Reasoning

Year: 11 - 12 RCHS Graduation Requirement: Mathematics UC/CSU - G

Prerequisite: Integrated Math 2, discuss placement with Counselor / Math Teacher

This class is an option for students after Math 2 for those that may need a bridge from Math 2 to Math 3. Students will use quantitative reasoning to go further with some math 2 topics and introduce some Math 3 topics. **This course does give high school math graduation credit but *will not count toward meeting the 3 year minimum college entrance mathematics requirements.* It will count as an elective for college entrance requirements.**

Integrated Math 3

Year: 10 - 12 RCHS Graduation Requirement: Mathematics UC/CSU - C

Prerequisite: "C-" or better in Integrated Math 2

In Integrated Math 3, students pull together and apply the accumulation of learning that they have from Integrated Math 1 and Integrated Math 2. They study probability, statistics, complex numbers, trigonometry, and polynomial, rational, and radical functions.

Quantitative Reasoning with Advanced Mathematical Topics

Year: 12 RCHS Graduation Requirement: Mathematics UC/CSU - C

Prerequisite: "C-" or better in Integrated Math 3

This class is an option after Math 3 for those that want a math course other than pre-calculus or statistics. Students will use quantitative reasoning to deepen their understanding of Math 3 topics and beyond. **This course will fulfill the recommended fourth year of Math.**

"One of the greatest academic hurdles to college degree attainment is a lack of the fundamental skills associated with quantitative reasoning. Quantitative reasoning skills are challenged in both general education and major coursework across all disciplines, in the professional workforce and in daily life. Increased preparation in quantitative reasoning supports success in college and the workforce and creates more equitable opportunity in high-demand science, technology, engineering and mathematics – collectively known as STEM – majors and careers."

Statistics

Year : 11 - 12 RCHS Graduation Requirement: Mathematics

UC/CSU - C

Prerequisite: Successful completion of Integrated Math 3

In this course, students will develop analytical and critical thinking skills as they learn to describe data patterns, plan and conduct studies, explore randomness, make predictions, test hypotheses, and make statistical inferences about populations. Mathematical prerequisites include procedural fluency in linear functions and basic probability rules. More importantly, students should have a high degree of curiosity and cognitive flexibility, as well as a propensity for evidence-based thinking.

Pre Calculus

Year: 11 - 12 RCHS Graduation Requirement: Mathematics

UC/CSU - C

Prerequisite: Successful completion of Integrated Math 3

This is an advanced level course for students intending to take college level Math or AP Calculus. Content emphasis on trigonometry, mathematical analyses, probability and statistics, analytic geometry, limits, and introduction to calculus.

Personal Finance

Year: 12 RCHS Graduation Requirement: Mathematics

Prerequisite: Counselor placement

This course is for students who have not been able to pass Math 3 and is assigned by placement only. The course covers a wide range of practical skills using Algebra and Geometry including topics such as salary and income, taxes, checking and debit accounts, savings accounts, and loans. Students will learn strategies for critical thinking and problem solving through real life word problems.

SCIENCE

[RCHS Science Flowchart](#)

Biology

Year: 9 - 12 RCHS Graduation Requirement: Life Science

UC/CSU - D

This inquiry-based course acquaints students with the living world around them. Meeting Common Core standards, the main topics covered are genetics, evolution, ecology and living body systems. Students perform various lab experiments and become familiar with laboratory equipment. Students should expect regular homework. Completion of this course is necessary to satisfy Next Generation Science Standards in Life Science.

[Agricultural Biology Pathway](#)

[PLTW Biomedical Science Pathway](#)

Innovations in Green Technology

Year: 10 - 12 RCHS Graduation Requirement: Physical Science

UC/CSU - D

Introduction to Green Technology course introduces students to career opportunities in sustainable STEM fields. Students conduct a series of projects to explore renewable energy technologies including Wind, Solar, biomass, and hydro-electric, culminating in a green building design project. In this course students can earn the SEI Energy Certificate showing their competence in green technologies.

Energy and Environmental Design

Year: 10 - 12 RCHS Graduation Requirement: Physical Science

UC/CSU - G

Prerequisite: Innovations in Green Technology

Students will complete in-depth projects related to sustainable design, energy efficiency, and renewable energy. Students will develop a Zero Net Energy Plan for our school: Utility bill analysis, Conservation Action Plan, Energy Audit report and School Solar Design project, aquaponics system design, solar hot water system design/build and biomimicry design.

Chemistry

Year: 10 - 12 RCHS Graduation Requirement: Physical Science UC/CSU - D

Prerequisite: Successful completion of Math 1 and concurrent enrollment in Math 2 or higher.

This rigorous inquiry based course introduces students to Common Core standards in chemistry. Students will participate in both class and laboratory activities. Students should expect frequent homework and other assignments that will need to be completed outside of class. Students should be comfortable with scientific calculators, algebra, and unit conversions.

Pre AP Chemistry

Year: 10 - 12 RCHS Graduation Requirement: Physical Science UC/CSU - D

Prerequisite: Successful completion of Math 1 and Life Science.

This course is designed for students who are interested in science and would like to attempt an AP course in science. This course will prepare students to develop a deep conceptual understanding of matter and energy at the molecular level as they learn to explain their macroscopic observations using particulate-level reasoning. Students will also utilize scientific reasoning skills needed to analyze the natural world—and to succeed in future science and social science courses in high school and college.

Physics

Year: 10 - 12 RCHS Graduation Requirement: Physical Science UC/CSU - D

Recommended: Successful completion of Math 2 or higher and /or Chemistry.

Students explore principles of Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits. The course is based on six Big Ideas, which encompass core scientific principles, theories, and processes that cut across traditional boundaries and provide a broad way of thinking about the physical world.

SOCIAL SCIENCE

World History

Year: 10 RCHS Graduation Requirement: Social Science UC/CSU - A

Students discover major turning points in shaping the modern world, particularly from the late 18th century to the present. Uncover the interrelationship of the world's people to each other and to their environment.

Remember that 'history repeats itself' as you learn of modern history linked to the past.

US History

Year: 11 RCHS Graduation Requirement: Social Science UC/CSU - A

Learn about the major turning points in American history in the twentieth century, particularly from 1900 to the present. Be prepared to delve into the nation's beginnings with the Industrial Revolution, expanding government, U.S. role as a world power, women and minorities' contributions, impact of technology and development of a corporate economy. Each unit also explores related elements of art, literature and American culture.

Government

Year: 12 RCHS Graduation Requirement: Social Science UC/CSU - A

A 9 week course which compares political systems and analyzes current issues. The course covers the political system, decision-making, the voting public's responsibility, the values, issues and problems of modern American government at home and abroad. Students enrolled in the U.S. Government automatically transfer into Economics for the second 9 weeks.

Economics

Year: 12 RCHS Graduation Requirement: Social Science UC/CSU - G

A 9 week course during which students study the American free enterprise system and product distribution for basic demands in a democratic, economic system. The class looks at your role as a consumer, producer, saver, investor and citizen to learn about economic problems and situations after graduation. Students enrolled in Economics automatically transfer into the U.S. Government for the second 9 weeks..

VISUAL ARTS

2 Dimensional Design <http://bit.ly/RC2Ddesign>

Year: 9 - 12 RCHS Graduation Requirement: VAPA

UC/CSU - F

This course is an introductory course designed to acquaint students with the elements and principles of design as they relate to 2-Dimensional works of art. The students will also learn the skills and techniques necessary for the creative and expressive manipulation of 2-Dimensional space.

3 Dimensional Design

Year: 9 - 12 RCHS Graduation Requirement: VAPA

UC/CSU - F

This course is designed to expose students to a variety of three-dimensional art techniques and mediums. An emphasis is placed on creativity and originality in solving the problems of working with a broad range of materials. Projects include assemblage, ceramics, collage, paper-mâché, and mixed media projects.

Digital Photography <http://bit.ly/RCDigitalPhoto>

Year: 10 - 12 RCHS Graduation Requirement: VAPA

UC/CSU - F

Satisfy your VAPA A-G and graduation requirement while creating exciting and expressive photographs that impress family and friends. Students will learn to use the camera and Adobe Photoshop to create, manipulate and produce a variety of unique projects that also introduce the students to the creative application of the elements and principles of design. If you like taking pictures of family, friends, vacations and more and want to make them even better, this is where you need to be.

Ceramics <http://bit.ly/RCCeramics>

Year: 10 - 12 RCHS Graduation Requirement: VAPA

UC/CSU - F

This course is designed as an introduction to ceramics, and specifically, ceramic sculpture. The central goal is the development and application of basic skills and techniques related to creating and refining three-dimensional ceramic projects. Each project focuses on the effective use of the elements of art and principles of design, as well as attention to detail, time management, following directions, and overall quality of production.

Advanced Ceramics

Year: 11 - 12 RCHS Graduation Requirement: VAPA

UC/CSU - F

Prerequisite: Successful completion of Ceramics or instructor approval

Assignments build upon the skills and methods developed in Ceramics 1, with an emphasis placed on exploring visual concepts to a greater degree, as well as more flexibility for student Interpretation of a given project theme.

PERFORMING ARTS

Introduction to Professional Theater (CTE-[Stage and Screen Pathway](#))



Year: 9 - 11 RCHS Graduation Requirement: VAPA

UC/CSU - F

Put on a happy/sad face for the study of dramatic history of literature and rehearsal and performance of scenes from plays of these periods. Touch up on acting techniques, make-up application, costumes, directing, and body control. Individual projects and at least one major production a year are included. Participation in public productions is mandatory.

Advanced Theater Performance (CTE-[Stage and Screen Pathway](#))



Year: 10 - 12 RCHS Graduation Requirement: VAPA

UC/CSU - G

Prerequisite: Successful completion of Theater or instructor approval

Further study of acting and directing including make-up and production. Required - 24 hours minimum participation in public performance as cast or crew member.

Advanced Dance

Year: 11 - 12 RCHS Graduation Requirement: VAPA UC/CSU - F

Prerequisite: Successful completion of Intermediate Dance or Instructor Approval

This course will help students develop advanced dance skills in a variety of styles, including jazz, modern, lyrical, hip hop, and a variety of world dance forms. Rhythm, musicality, and choreography are emphasized, along with physical skills, flexibility, and aerobic fitness. This is a performance class and show participation is required.

Beginning Band

Year: 9 - 12 RCHS Graduation Requirement: VAPA UC/CSU - F

Beginning Band is geared toward students that have no prior experience in playing traditional band instruments. In this course, you'll be able to learn one of the following instruments: flute, clarinet, saxophone, trumpet, trombone, french horn, baritone, tuba, and percussion/drums. Students will acquire the fundamentals necessary to participate in the following ensembles: Symphonic Band, Marching Band, and audition for Jazz Band and Wind Ensemble.

Marching Band (The River City Regiment) - Yearlong* <http://bit.ly/RCMarchB>

Year: 9 - 12 RCHS Graduation Requirement: VAPA UC/CSU - F

Prerequisite: Students are expected to attend July Band Camp, Previous music experience preferred

The River City Regiment is the most visible music group on campus. We perform at football games, community events, and competitions. We have marched down Main Street USA Disneyland and performed for thousands of people. There are a variety of performances and rehearsals that occur outside of the school day that are required for this course. A mandatory two-week camp in late July will be required. For more information contact Mr. Cisneros at rcisneros@wusd.k12.ca.us. ***Students in Marching Band will be expected to take either Wind Ensemble or Symphonic Band in the Spring**

Marching Band / Wind Ensemble (The River City Regiment-Marching Band)

Year: 10 - 12 RCHS Graduation Requirement: VAPA UC/CSU - F

Prerequisite: Instructor approval, successful completion of Marching Band

The Wind Ensemble is selected from the most outstanding musicians attending RCHS. This ensemble pursues the highest professional standards and is determined to bring the finest artistic repertoire from all musical periods, cultures, and styles to its audience. There will be additional time requirements outside of the regularly scheduled school day.

Marching Band / Symphonic Band (The River City Regiment- Marching Band)

Year: 9 - 12 RCHS Graduation Requirement: VAPA UC/CSU - F

Prerequisite: Previous music experience preferred

The Symphonic Band is a wind band that strives to reach a high level of musicality. This ensemble will perform at various concerts, festivals, and community events throughout the spring term. The symphonic band covers a wide variety of musical styles and cultures. In addition to learning music and musicianship, you will acquire skills that will benefit you no matter which career path you choose. There will be additional time requirements outside of the regularly scheduled school day.

Big Band

Year: 9 - 12 RCHS Graduation Requirement: VAPA UC/CSU - F

Prerequisite: Instructor approval

This Course provides instrumental and vocal musicians with skills in the art of improvisation. Jazz Improvisation and Styles will focus on four main areas: listening, scales/chords, repertoire development, and transcribing jazz solos from famous jazz musicians. Members of this ensemble will be selected by the director to perform in the RC Big Band which will require time outside the school day.

Beginning Strings (Fall Chamber Orchestra)

Year: 9 - 12 RCHS Graduation Requirement: VAPA

UC/CSU - F

Students will be introduced to the orchestral string instruments: Violin, Viola, Cello, or Double Bass. With guidance, students will select an instrument on which to learn basic string technique, music theory, and ensemble playing. The focus will include posture, position, and music reading skills. Students will perform two evening performances. No previous musical experience is required. Students are encouraged to continue their experience by taking Chamber Orchestra in the Spring.

Chamber Orchestra

Year: 9 - 12 RCHS Graduation Requirement: VAPA

UC/CSU - F

Prerequisite: Yearlong - must be requested for two elective positions on the course request sheet or Beg. Strings Fall, Orchestra Spring.

The major emphasis of this course is to develop student achievement through the study of orchestra literature. The course extends the physical skills necessary to play string orchestra music accurately and with good tone quality, increases skills in reading musical notation, and provides additional opportunities for growth in the understanding of music elements. The course also provides opportunities to study and play the music of many geographical locations and historical periods. This class will include the study of the string instruments (violin, viola, cello, and bass) of the orchestra, as well as the greatest compositions in the development of Western Music.

Jazz Band

Year: 9 - 12 RCHS Graduation Requirement: VAPA

UC/CSU - F

Prerequisite: Yearlong - must be requested for two elective positions on the course request sheet, Instructor approval

The jazz band is very active, performing concerts and community activities, and requires a considerable commitment of time outside of the regularly scheduled school day. The group focuses on small jazz group styles with an emphasis on traditional jazz and more modern jazz combo music. This group also travels to and participates in jazz festivals, clinics, and music competitions.

Guitar

Year: 9 - 12 RCHS Graduation Requirement: VAPA

UC/CSU - F

This course provides opportunities for students to develop their musical potential and aesthetic understanding through learning to play the guitar. Emphasis will be placed on playing position, tone production, fundamental technique, simultaneous playing and singing, and reading standard music notation. Knowledge and skills will include experiences in singing, creating, playing, and listening.

Guitar 2

Year: 9 - 12 RCHS Graduation Requirement: VAPA

UC/CSU - F

Prerequisite: Successful completion of Guitar 1 or instructor approval

This course is a continuation of the skills learned in Guitar 1. Students will learn several open chords as well as barre chords and music theory. Songwriting is a large component of the class, and students will compose multiple songs and lyrics to be performed in recording sessions as well as a large evening performance.

Piano

Year: 9 - 12 RCHS Graduation Requirement: VAPA

UC/CSU - F

Piano I

is designed for beginning students who want to develop basic piano keyboarding skills. Students will learn to read music exploring elements of music theory, music history, and ear training. Students will develop hand/eye coordination, and basic sight-reading skills. Students will be required to participate in musical performances in front of classmates. Students will need the ability to work independently and maintain focus. No prior musical training required.

Piano 2

Year: 9 - 12 RCHS Graduation Requirement: VAPA

UC/CSU - F Prerequisite:

Successful completion of Piano or Instructor approval

Piano 2 continues where Piano I left off with an emphasis on further building both students' keyboarding skills and their comprehension of music theory. There is a significant focus on helping students not only to be able to play the correct notes, but also to play expressively using dynamics, articulations, and other tools. Students will be required to participate in musical performances in front of their classmates, and must be able to work independently in order to be successful.

Digital Music Production

Year: 9 - 12 RCHS Graduation Requirement: VAPA

Prerequisite: Piano recommended or instructor approval

This course will cover basic composition and arranging through the use of Digital Audio Workstation Software. Students will complete projects that mimic the real world skills of making music in a virtual studio. Not only that but students will learn historical knowledge that provides background on how specific music genres and artists gained their popularity. This course is geared toward helping students understand and appreciate other music genres through their digital music production projects and assignments.

Concert Choir

Year: 9 - 11 RCHS Graduation Requirement: VAPA

UC/CSU - F

This course is designed to provide beginning vocal instruction and general musicianship skills for all beginning students. Emphasis will be placed on ensemble singing skills such as pitch matching, tone production, correct vocal technique, and sight singing. The students will learn basic music theory, music history and ear training. Occasional performances may be required.

Chamber Choir

Year: 9 - 11 RCHS Graduation Requirement: VAPA

UC/CSU - F Prerequisite:

Successful completion of Choir or instructor approval.

This course is designed to provide intermediate vocal instruction and musicianship skills for second year choral students. Includes sight singing, level 2 music theory, music history, and ear training. Occasional performances may be required.

Advanced Vocal Ensemble

Year: 10 - 12 RCHS Graduation Requirement: VAPA

UC/CSU - F

Prerequisite: Successful completion of Chamber Choir or instructor approval

This course is designed to provide continued vocal instruction and general musicianship skills for students with previous choral experience. Students will perform four, six, and eight – part music. Occasional performances may be required.

WORLD LANGUAGES

By the completion of 4 courses of the same World Language, students are getting an opportunity to obtain the Seal of Bi-literacy on their Diplomas, if the criteria of a passing score on the SBAC ELA Test Section is met.

Spanish Language Arts 1 / 2

Year: 9 - 12 RCHS Graduation Requirement: Foreign Language

UC/CSU - E

Prerequisite: C or better in English / ELD or teacher approval; C or better in SLA 1 or Spanish 2 or teacher approval

These literature-based courses are for students who speak Spanish as a primary language but wish to refine, broaden language skills, knowledge of Spanish speaking cultures, heritage and traditions. These courses incorporate grammar concepts from both Spanish 1 and Spanish 2 (SLA 1) or Spanish 3 and Spanish 4 (SLA 2). Students will develop writing skills through daily writing, reading and speaking assignments.

Russian Language Arts 1 / 2 / 3

Year: 9 - 12 RCHS Graduation Requirement: Foreign Language

UC/CSU - E

Prerequisite: C or better in English / ELD or Instructor Approval; C or better to progress to the next level.

This literature-based course is for students who speak Russian as a primary language but wish to refine and broaden language skills and knowledge of cultures, heritage and traditions. The course incorporates grammar concepts and will develop writing skills through daily Writing, reading, and speaking assignments.

Spanish 1 / 2 / 3 / 4

Year: 9 - 12 RCHS Graduation Requirement: Foreign Language

UC/CSU - E

Prerequisite: "C" or better in course to advance to the next level

You're on your way if you are a student who wishes to complete the graduation language requirement or are considering a four-year college. The course develops Spanish speaking, listening, grammatical structures, writing and reading skills. Students are exposed to the culture, history and geography of countries where the language is spoken. Students are exposed to literature and civilization, poetry readings and interpretation. Be ready for research papers or book reports and oral presentations.

Russian 1 / 2 / 3 / 4

Year: 9 - 12 RCHS Graduation Requirement: Foreign Language

UC/CSU - E

Prerequisite: "C" or better in course to advance to the next level

You're on your way if you are a student who wishes to complete the graduation language requirement or are considering a four-year college. The course develops basic Russian speaking, listening, writing and reading skills. Students are exposed to the culture, history and geography of countries where the language is spoken.

French 1 / 2 / 3 / 4

Year: 9 - 12 RCHS Graduation Requirement: Foreign Language

UC/CSU - E

Prerequisite: "C" or better in course to advance to the next level

For students who wish to complete their graduation language requirement or are considering a four-year college. The course develops speaking, listening, grammatical structures, writing and reading skills in French. Be ready to explore the culture, history and geography of France and French-speaking countries. Students are exposed to French/French-Canadian literature and civilization as well as poetry readings and interpretation. Look for research papers or book reports and oral presentations in French.

Chinese 1 / 2 / 3 / 4

Year: 9 - 12 RCHS Graduation Requirement: Foreign Language

UC/CSU - E

Prerequisite: "C" or better in course to advance to the next level

A wonderful and stimulating level of Chinese study with the opportunity for advanced, college-level study for students with little or no knowledge of Mandarin Chinese. The study of the Chinese language opens the way to one of the world's oldest and richest continuous cultures, and one of the largest modern economies. Students will learn to communicate in Mandarin Chinese and learn about the Chinese customs and cultural practices. Oral communication will be stressed through listening and speaking activities.

ADVANCED PLACEMENT COURSES - [WEBPAGE](#)

AP World History : Modern <http://bit.ly/RCAPWorldHist>

Year: 10 - 12 RCHS Graduation Requirement: Social Science UC/CSU - A
In AP World History: Modern, students investigate significant events, individuals, developments, and processes from 1200 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change over time. The course provides six themes that students explore throughout the course in order to make connections among historical developments in different times and places: humans and the environment, cultural developments and interactions, governance, economic systems, social interactions and organization, and technology and innovation.

AP US History

Year: 11 RCHS Graduation Requirement: Social Science UC/CSU - A
The Advanced Placement U.S. History course is designed to provide the content and knowledge of the development of U.S. History, while providing practice in the written analysis and interpretation of related documents and various primary sources. Critical thinking activities will include extensive readings, written analysis, persuasive essays, and oral discussions, presentations, and projects. This is a difficult college-level course. The ultimate objective is to prepare for and pass the College Board's national AP Exam in the spring.

AP Government / Honors Economics <http://bit.ly/RCAPGovt>

Year: 12 RCHS Graduation Requirement: Social Science UC/CSU - A / G
Includes both the study of general concepts used to interpret US politics and the analysis of specific examples. Requires familiarity with the various institutions, groups, beliefs, and ideas that constitute US politics. Topics presented include: constitutional underpinnings of the US government; political beliefs and behaviors; political parties; interest groups and mass media; institutions of national government; public policy; civil rights and civil liberties. Topics meet requirements for graduation. The ultimate objective is to prepare for and pass the College Board's national AP Exam in the spring.

AP English Language and Composition

Year: 11 RCHS Graduation Requirement: English UC/CSU - B
Prerequisite: Successful completion of English 10.
AP English Language and Composition is a rigorous course for juniors that focuses on writing, asking students to improve all aspects of written discourse including diction and syntax through intense practice. The course guides students in becoming skilled readers of prose written in a variety of periods, disciplines and rhetorical contexts. The class prepares students for the Advanced Placement English Language exam given in the spring.

AP English Literature and Composition

Year: 12 RCHS Graduation Requirement: English UC/CSU - B
Prerequisite: Successful completion of English 11.
Students in this college level course will participate in the close reading and critical analysis of established works of literary merit. They will develop their abilities to read, understand and write about literature through the careful study of how writers use language to create meaning and effect in their works. Students will analyze the structure, style and themes of literature by looking at the specific elements of language such as diction, symbolism, imagery and tone and analyzing how authors use specific literary devices to achieve specific literary purposes.

AP Statistics

Year : 11 - 12 RCHS Graduation Requirement: Mathematics

UC/CSU - C

Prerequisite: Successful completion of Integrated Math 3

The same concepts and topics are taught as in the Statistics course, but with more depth and rigor. Students enrolling in the AP Statistics course should be prepared for the fast pace necessary to prepare for and pass the College Board's national AP Exam in the spring.

AP Calculus AB

Year: 11 - 12 RCHS Graduation Requirement: Mathematics

UC/CSU - C

Prerequisite: Successful completion of Pre-Calculus

Students enrolling in the AP Calculus course should be prepared for the rigor and fast pace necessary to prepare them for the Advanced Placement exam in May. This course is for students with a thorough knowledge of college preparatory mathematics, including algebra, axiomatic geometry, trigonometry and analytic geometry (rectangular and polar coordinates, equations and graphs, lines and cones). Topics from Calculus AB include elementary functions and limits, the derivative, anti-derivatives, techniques of integration and the definite integral. Graphing calculators will be used regularly.

AP Calculus BC

Year: 11 - 12 RCHS Graduation Requirement: Mathematics

UC/CSU - C

Prerequisite: Enrollment in AP Calculus AB for Fall term

For students with a thorough knowledge of college preparatory mathematics, including algebra, axiomatic geometry, trigonometry and analytic geometry (rectangular and polar coordinates, equations and graphs, lines and cones). This course extends and furthers topics from AP Calculus AB. It is offered in the Spring term for students that want to continue on after taking AP Calculus AB in the Fall term.

AP Computer Science Principles

Year: 10-12 RCHS Graduation Requirement: Elective

UC/CSU – D

Recommended: Successful completion of Computer Game Design and Programming

AP Computer Science Principles implements the College Board's AP CS Principles framework. Students work in teams to develop computational thinking and solve problems. In this class they learn Python® programming language to create animations, publish games and develop applications. Students will learn how HTML and CSS direct the client computer to render a page, and experiment with JavaScript™ programming language to provide dynamic content. Students will also be introduced to cybersecurity and online security principles. Students can earn college credits by passing the AP Computer Science Principles exam offered by the College Board. This course may be used to fulfill the recommended third year of Science for the UC/CSU

AP Computer Science A

Year: 10 - 12 RCHS Graduation Requirement: Elective

UC/CSU - C

Prerequisite: Successful completion of Integrated Math2 and Computer Game Design and Programming or AP Computer Science Principles

AP Computer Science A serves both as a college preparatory course for potential computer science majors and a foundation course for students planning to study in other majors, like engineering, physics, chemistry, and geology that requires significant involvement with computing. In AP Computer Science, students learn advanced Java (a programming language used in many private industries, and state government agencies). Students can earn college credits and may also work towards the Oracle certification exam. Students will learn the real world applications of drone technology by developing drone applications. Students will use SQL to structure and access databases hosted on a remote server. This class can also be used to meet the recommended 4th year Math Class for UC admissions

AP Biology

Year: 11 - 12 RCHS Graduation Requirement: Life Science

UC/CSU - D

Prerequisite: Successful completion of Chemistry and Biology

This class is the equivalent of a first year college Biology class for science majors. It utilizes the same textbook and covers the same material as classes taught at UC and CSU. The coursework for this class will be very demanding. Students will be expected to be highly motivated and be able to commit to two hours of study for each hour of class time. Additionally, students will need to complete introductory course work for this class over the summer preceding the start of the school year.

AP Chemistry

Year: 11 - 12 RCHS Graduation Requirement: Physical Science

UC/CSU - D

Prerequisite: Successful completion of Chemistry and Integrated Math 2 and concurrent Math 3 or higher

Advanced Placement (AP) Chemistry is the first semester of a two semester college-level general chemistry course. This course will reinforce the chemical principles learned in college-prep chemistry such as the periodic table, chemical formulas and equations, stoichiometry, and chemical bonding. This course will also include new topics such as the hybrid theory, the molecular orbital theory, organic chemistry, chemical kinetics, chemical equilibrium, and thermo-chemistry. Students will conduct advanced labs, prepare lab reports, complete problem sets, take unit exams, and complete an individual research project.

AP Physics 1

Year: 11 - 12 RCHS Graduation Requirement: Physical Science

UC/CSU - D

Recommended: Concurrent enrollment in Math 3 or higher

AP Physics 1 is an algebra-based, introductory college level physics course. Students cultivate their understanding of Physics through inquiry based investigations as they explore these topics: kinematics, dynamics, circular motion and gravitation, energy, momentum, simple harmonic motion, torque and rotational motion, electric charge and electric force, DC circuits, and mechanical waves and sound.

AP Environmental Science

Presentation

Year: 11 - 12 RCHS Graduation Requirement: Interdisciplinary

UC/CSU - D

Prerequisite: Successful completion of Biology, Physical Science, and Math 1.

The AP Environmental Science course is designed to engage students with the scientific principles, concepts, and methodologies required to understand the interrelationships within the natural world. The course requires that students identify and analyze natural and human-made environmental problems, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving or preventing them. Environmental science is interdisciplinary, embracing topics from geology, biology, environmental studies, environmental science, chemistry, and geography.

AP Spanish

Year: 11 - 12 RCHS Graduation Requirement: Foreign Language

UC/CSU - E

Prerequisite: "C" or better in Spanish 4 or SLA 2 with completion of summer assignment*

A wonderful and stimulating study of Spanish with the opportunity for advanced, college-level study. Vocabulary enrichment, mastery of details in Spanish grammar, writing and speaking skills enable students to express themselves in Spanish, accurately and resourcefully. Successful students will be well-prepared for the AP examination.

AP French

Year: 11 - 12 RCHS Graduation Requirement: Foreign Language

UC/CSU - E

Prerequisite: "C" or better in French 4 or "B+" or better in French 3 with teacher approval

A wonderful and stimulating level of French study with the opportunity for advanced, college-level study. Vocabulary enrichment, mastery of details of French grammar and writing, listening and speaking skills enable students to express themselves in French, accurately and resourcefully.

AP 2D Art and Design (formerly AP Studio Art) <http://bit.ly/RCAPArt>

Year: 11 - 12 RCHS Graduation Requirement: VAPA

UC/CSU - F

Prerequisite: Successful completion of Digital Photo and/or 2D Design, preferably both.

Bring the completed [application](#) and two of your best finished pieces that show your understanding and application of one or more of the elements of art and principles of design to Mrs. Schumacher in room B 202. Take your artistic skills and knowledge to the next level! This is your opportunity to create a collection of high quality finished works guided by your interests and experiences. Make no matter about it, this is a demanding course but it may also be the most enjoyable class you will ever take.

DEPARTMENT ELECTIVES

Dance Beginning

Year: **9*** - 12 RCHS Graduation Requirement: Elective

This course will help students develop basic dance skills in a variety of styles, including jazz, modern, lyrical, hip hop, and a variety of world dance forms. Rhythm, musicality, and choreography are emphasized, along with physical skills, flexibility, and aerobic fitness. This is a performance class and show participation is required. Participation in a rally is optional. This class will also include a 4 week health unit and state fitness testing.

***Please note:** all **9th** grade students will be assigned to PE Individual. Students in 9th grade who would like to take Beginning Dance **in addition** to PE Individual will have the option to take Intermediate Dance as their PE course during 10th grade.

Dance Intermediate

Year: 10 - 12 RCHS Graduation Requirement: Elective

Prerequisite: Successful completion of Individual Activities and Beginning Dance

This course will help students develop intermediate dance skills in a variety of styles, including jazz, modern, lyrical, hip hop, and a variety of world dance forms. Rhythm, musicality, and choreography are emphasized, along with physical skills, flexibility, and aerobic fitness. This is a performance class and show participation is required.

[Dance Advanced](#) Year: 11-12 [Click the link for details.](#)

PE Advanced Team Sports <http://bit.ly/RCAdvTeam>

Year: 11 - 12 RCHS Graduation Requirement: Elective

Prerequisite: Successful completion of PE Team Sports and PE Individual Activities (note: This course may not be taken to make-up a failed PE course)

This course will focus on advanced strategies and game play in sports such as Basketball, Flag Football, Hockey, Lacrosse, Rugby, Soccer, and Softball.

PE Leisure Sports (Advanced Individual) <http://bit.ly/AllLeisureSports>

Year: 11 - 12 RCHS Graduation Requirement: Elective

Prerequisite: Successful completion of PE Team Sports and PE Individual Activities (note: This course may not be taken to make-up a failed PE course)

This course provides students the opportunity to learn and participate in lifelong physical activities, such as tennis, golf, archery, and/or badminton in an individual/dual sports setting, as well as, providing daily physical fitness.

PE Basketball

Year: 11 - 12 RCHS Graduation Requirement: Elective

Prerequisite: Successful completion of PE Team Sports and PE Individual Activities (note: This course may not be taken to make-up a failed PE course)

This course is designed for students who want to focus on advancing already established basketball skills. Emphases include fundamentals, offensive and defensive strategies, training routines, and overall conditioning.

PE Weightlifting

Year: 11 - 12 RCHS Graduation Requirement: Elective

Prerequisite: Successful completion of PE Team Sports and PE Individual Activities (note: This course may not be taken to make-up a failed PE course)

The goal of this class is to continue to educate students so they can successfully design an efficient and sound resistance training program. The focus is on correct exercise technique, program design and safety. Students will learn anatomy, exercise physiology and nutrition as it relates to obtaining optimal health.

PE Soccer

Year: 11 - 12 RCHS Graduation Requirement: Elective (note: This course may not be taken in order to make-up a failed PE course)

Prerequisite: Successful completion of PE Team Sports and PE Individual Activities

Students will learn the primary concepts of playing the game of soccer and developing an awareness of how to coach the sport of soccer.

Introduction to the Craft of Poetry

UC/CSU - G

Year: 9 - 12 RCHS Graduation Requirement: Elective

Do you love words, rhythm, and rhyme? Are you inspired by Shakespeare, Sylvia Plath, or Dr. Seuss? Are you a poet and you know it? Join the Introduction to the Craft of Poetry class! In this elective course, you will study the experts and create your own masterpieces. At the end of the term, you will leave with a portfolio of your original work and a deeper understanding of the art of language. We welcome writers of all grades and all levels of poetic experience. Come one, come all!

Science Fiction in Film and Literature

Year: 9 - 12 RCHS Graduation Requirement: Elective

UC/CSU - G

Prerequisite: Successful completion of English 9

Students will define, analyze, and interpret the genres of SF through influential works in novels, short stories, television and film. This class will include expository, persuasive, and descriptive writing as well as analysis of both fiction and non-fiction materials related to the overall genre of SF.

Creative Writing

Year: 11 - 12 RCHS Graduation Requirement: Elective

UC/CSU - G Creative

Writing will give students the opportunity to write short stories and edit them through a sharing and responding process. Students will also explore the short story genre through plot, character, setting, conflict and voice by reading famous examples of short fiction focusing on the craft. Students will engage in a variety of physical as well as writing activities to help improve their writing. Finally students will produce a portfolio featuring their work from the class.

Film and Literature

Year: 10 - 12 RCHS Graduation Requirement: Elective

UC/CSU - G

Prerequisite: Successful completion of English 9

Students will study approximately one film per week, concentrating on analysis of screenwriting, cinematography, camera angles, editing, acting and symbolism. Students will be expected to learn basic terminology of film analysis and use it to think and write critically about films from various genres. Students would also be expected to write a partial script focusing on one of the elements studied.

Introduction to Animal Science

[West Sacramento FFA](#)

(Bryte Campus)

Year: 9 - 12 RCHS Graduation Requirement: Elective

UC/CSU - G

Introduction to Animal Science is a one term (10 credit), laboratory science course, designed for the students with agricultural career interests with animals. Using the 3-ring model of Agricultural Education, the first ring: classroom instruction will emphasize the principles, central concepts and inter-relationships among the following topics: growth and reproduction of animals, breeding and evolution of domestic livestock species, animal genetics and heredity, animal behavior, ecological relationship among plants & animals, humans and the environment, nutrition in animals, health and disease in animals, and the similarities between animals and humans. The second ring: is an extensive experiential learning component known as Supervised Agricultural Experience. It connects the big ideas of life science with agriculture applications, earth and physical science principles. This hands on learning will challenge the students by being responsible for an animal project to care for and can focus on the Yolo County Fair Competition. The third ring is the leadership component of FFA – Future Farmers of America, the national premier student leadership organization in the country. Students will practice, learn, strong leadership, public speaking/ presentation skills through student lead activities and events.

Forensic Science

Year: 11 - 12 RCHS Graduation Requirement: Life/Physical Science

UC/CSU - D

Forensic science is a laboratory-based introduction to the analysis of crime scenes by collecting and analyzing physical evidence. This course is designed to integrate the core scientific disciplines while giving students both theory and hands-on experience with the skills and knowledge required of a forensic crime scene investigator. This multidisciplinary approach will highlight topics in DNA, genetics, anatomy, chemistry, physics, entomology, botany, and investigative techniques with supplemental subject matter through case studies, earth science, mathematics, medicine, technology and sociology. In addition, the ethical, legal, and social concerns surrounding forensics will be discussed.

Criminal Law / Mock Trial <http://bit.ly/CrimLawMTvideo>

Year: 10 - 12 RCHS Graduation Requirement: Elective

UC/CSU - G

Students will learn about the American legal system through traditional study and by preparing and participating in an in-class criminal Mock Trial. Students in the Criminal Law class are encouraged, but not required, to participate on River City High School's Mock Trial competition team. The final exam is a required performance final.

Psychology

Year: 11 - 12 RCHS Graduation Requirement: Elective

UC/CSU - G

Learn the process of psychological research as you study human behavior. Examine the nature/nurture controversy as you study the history of psychology and learn the theories of human development, learning, motivation, and personality. Review the contributions in the field of psychology by Freud, Maslow, Pavlov, Rogers and R.F. Skinner. Emphasis will be made on critical examination of how we act and why we act in certain ways.

Art History: An Artistic Interpretation of History Through Image

Year: 11 - 12 RCHS Graduation Requirement: Elective

Prerequisite: Successful completion of either World, US, AP World, or APUSH

This course covers the development of art forms from various historical periods. Emphasis is on content, history, significant artists and the impact of art on culture and society. Upon completion, students will be able to demonstrate an historical understanding of art as a product reflective of human social development. This course includes Ancient arts, Renaissance & Baroque, Romanticism, Impressionism, and various 20th century art movements.

Introduction to Ethnic Studies

UC/CSU - G

Year: 9 - 12 RCHS Graduation Requirement: Elective

Take a critical look at U.S. History from multiple perspectives. Do you know who Cesar Chavez, Bell Hooks, and Carlos Bulosan are? Learn about these heroes and many more minorities that made powerful changes in our society. Through this interdisciplinary course that uses a comparative and historical perspective to examine the languages, values, and voices of diverse groups within the United States. Emphasis will be on African Americans, Asian/Pacific Islanders, Chicanos/Latinos, and Native Americans as historically underrepresented groups in Sacramento and the United States.

Women and Gender Studies

<http://bit.ly/WGenderStudies>

UC/CSU - G

Year: 10 - 12 RCHS Graduation Requirement: Elective

This course will explore the history of women and gender from the 19th century until now. The course will include a history of gender and sexuality in the United States, the social construction of gender, how gender, body and beauty are understood through media, and how gender is influenced and performed in pop culture. This multidisciplinary course will include readings by current authors, current events, films, guest speakers, and stories from personal experience.

STUDENT ENGAGEMENT

AVID

Year: 9 - 12 RCHS Graduation Requirement: Elective

UC/CSU - G

Prerequisite: Application and Interview (9th grade).

This is a program designed to prepare average students who have demonstrated academic ability for the rigorous A-G courses. AVID empowers students to achieve academic excellence and prepares them for admission to four-year universities and colleges. Students enrolled in AVID must follow the same criteria for students who plan to enroll in the university systems upon graduating from high school. Students must also take an AVID elective course during each of their four years. **Students must apply to be in this program.**

[Current RCHS AVID student Application](#) [Continuing AVID 8th grade Application](#) [New AVID Student Application 8th grade](#)

AVID Tutor

Year: 11 - 12 RCHS Graduation Requirement: Elective

Prerequisite: Successful completion of 1 prior year of AVID or teacher recommendation.

AVID tutors will facilitate discussion with students during AVID tutorials as they work through problems of various subjects while encouraging the use of the Socratic method and active participation in their own learning. Tutors will be placed with an AVID teacher as a primary supervisor but will also travel to other AVID classes during tutorials where they will interact with students in lower grade levels.

Students will receive a CR / No CR mark on their transcript.

Building Foundations for Success

Year: 9 RCHS Graduation Requirement: Freshman Experience Class UC/CSU - G

This course is designed to help students understand the importance of academics and to build a solid foundation of skills such as self-analysis, time management, goal setting, decision making, career research, financial literacy, and planning for the future. Provides a combination of personal/social, educational, career and life skills to be successful in navigating life in and after high school. Students may earn three units of community college credit through Sacramento Community College when students achieve 80% or higher in the course and have completed an Advanced Education form in class.

Senior Seminar

Year: 12 RCHS Graduation Requirement: Elective

UC/CSU - G

Senior Seminar will serve as an elective credit for high school seniors. Students will leave with an understanding of leadership skills, financial awareness and fluency, and their 10 year plan. Students will exit with artifacts that demonstrate mastery of skills such as: Resume writing, Application processes (FAFSA and College), Professional communication (verbal and written), Study strategies and organizational skills, Microsoft Office proficiency, Google Applications proficiency. Course will culminate in a senior project meant to demonstrate the above skills in a presentation format.

Peer Mediation

Year: 9 - 12 RCHS Graduation Requirement: Elective

Prerequisite: 2.0 GPA, Counselor Approval. Yearlong.

Students in Peer Mediation receive specialized training in peer mediation techniques which enable them to work with classmates to resolve conflicts. Students are supervised and trained by teachers.

Leadership

Year: 9 - 12 RCHS Graduation Requirement: Elective

Prerequisite: Application and Interview. Yearlong.

Required for River City High School elected ASB (Associated Student Body) officers and freshman, sophomore, junior and senior class officers. The students meet daily as well as outside class to finish assigned duties.

Students plan activities/student government and turn in class assignments/weekly reports to the Activity Director.

Students develop leadership skills, problem solving, organization, time and money management skills.

Recommended for college-bound students. Students must maintain a GPA of 2.5.

AGRISCIENCE - FFA (Career Technical Education)

CDE Agricultural Biology AG SCIENCES ACADEMY Pathway Course 1 (Bryte Campus)

Year: 10 RCHS Graduation Requirement: Life Science (lab)

UC/CSU - D



Agricultural Biology is an introductory course for the Ag Science Academy and includes strong components of leadership, personal growth and career success through agricultural education and membership in the National FFA Organization. Using agriculture as the learning vehicle, this course emphasizes the principles, concepts and relationships among living organisms. The course is centered around an extensive laboratory component in order to connect the big ideas of life science with agricultural applications, which will help students acquire a broad understanding of a variety of agricultural areas, develop an awareness of the many career opportunities in agriculture, participate in occupationally relevant experiences, and work cooperatively with a group to develop and expand leadership abilities. This course meets the life science portion of the two-year laboratory requirement for high school graduation. Application: <https://forms.gle/DAJk4v6DAiNk5Le86>

Farm to Fork I AG SCIENCES ACADEMY Pathway Course 2

Year: 11 RCHS Graduation Requirement: Elective

(Bryte Campus)

UC/CSU - D



Prerequisite: Ag Biology

The students in this biologically based class will practice sustainability through technology and hands-on activities like composting, growing vegetables, fruits, flowers and trees, and transplanting to harvesting, with the ultimate goal of supplying the culinary arts program with a healthy "home grown" crop of food to create meals. Students will use Probeware technology to learn skills in collecting precise data in real-time and analyzing the results. Life skills and technology will be taught at every opportunity to encourage understanding of Farm to Fork Sustainable Agriculture.

Farm to Fork II AG SCIENCES ACADEMY Pathway Course 3

Year: 12 RCHS Graduation Requirement: Elective

(Bryte Campus)

UC/CSU - G



Prerequisite: Farm to Fork I and Ag Biology

Farm to Fork 2 is a hands-on class that uses chemistry and lab based experiences in the classroom and garden to teach sustainable agriculture practices. We will expand upon: understanding GMO use, synthetic vs. organic fertilizer and study career exploration and guidance in agriculture fields. Building our resumes, practicing interview skills and participating in a round robin with the local agriculturally based businesses will promote opportunities for Ag Science students. Guest speakers and field trips in our community will add relevance to the curriculum. This is a fun, active class that teaches you leadership skills, public speaking skills, where your food comes from and how to eat healthy. College credit course for grades >80%

PROJECT LEAD THE WAY: BIOMEDICAL [\(Career Technical Education\)](#)

Please see the website to see the full descriptions and benefits of the Biomedical Pathways

Principles of Biomedical Science

Year: 9 - 12 RCHS Graduation Requirement: Life Science (lab) UC/CSU - D

Principles of Biomedical Science is the first course in a four-course sequence intended to prepare students interested in the healthcare field for technical training or university degrees. Students learn how the human body works, and how we implement medical interventions to improve health. Areas of focus in this introductory course include heart disease, diabetes, sickle cell disease, hypercholesterolemia, infectious disease, and pharmaceuticals.



Human Body Systems <http://bit.ly/RCHBS>

Year: 10 - 12 RCHS Graduation Requirement: Life Science (lab) UC/CSU - D

Prerequisite: PBS

This course introduces students to interactions with the human body. They design experiments, investigate body structures, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration. Students build organs and tissues on a skeletal mannequin and work through real world cases.



Medical Interventions Honors

Year: 11 - 12 RCHS Graduation Requirement: Life Science (lab) UC/CSU - D

Prerequisite: HBS

In the Medical Interventions course, students will investigate the variety of interventions involved in the prevention, diagnosis and treatment of disease as they follow the lives of a fictitious family. As students experience the health issues and medical decisions faced by members of the family, they will be exposed to the wide range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, rehabilitation, and diagnostics. Each family case scenario will introduce multiple types of interventions and will reinforce concepts learned in the previous two courses, as well as present new content that range from simple diagnostic tests to treatment for complex diseases and disorders.



Biomedical Innovation Honors

Year: 11 - 12 RCHS Graduation Requirement: Elective UC/CSU - G

Prerequisite: MI

Students design innovative solutions for the health challenges of the 21st century. They work through progressively challenging open-ended problems, addressing topics such as clinical medicine, physiology, biomedical engineering, and public health. Throughout the course, students are expected to present their work to an audience of STEM professionals. This course is designed for 12th grade students.



Anatomy and Medical Terminology

Year: 10 - 11 RCHS Graduation Requirement: Life Science UC/CSU - D

Prerequisite: Successful completion of Principles of Biomedical Science

Anatomy and Medical Terminology is designed to teach students medical terminology with anatomical systems as a basis. Students will learn to describe the organs and functions of the different systems using appropriate medical terminology. Students will investigate the various pathologies of each system, and also explore the diagnostic procedures, therapeutic procedures, and medications relevant to each system. Learning will be enhanced through the use of laboratory experiments, research, case studies and dissections. This is the second course in the Patient care pathway.



Emergency Medical Responders** Dual Enrollment with Yolo Community College for college credit. Must be 18 or older. Successful completion of PBS and Anatomy.

PROJECT LEAD THE WAY: ENGINEERING ([Career Technical Education](#))

Introduction to Engineering Design

Year: 9 - 12 RCHS Graduation Requirement: Elective

UC/CSU - G



Prerequisite: Successful completion of Math 8 or higher

This is the first course in the Project Lead the Way path to high skill, high wage careers in applied science, technology, engineering, and mathematics. Students will study the design process and learn how to use the same industry leading 3D computer modeling design software inventor and 3D printer that's used by companies like Intel, Lockheed Martin, and Pixar.

Honors Civil Engineering and Architecture

Year: 11 - 12

Prerequisite: B or better in Integrated Math 2, successful completion of Introduction to Engineering Design, successful completion of one laboratory science (Biology, Chemistry, or Physics)

Students learn the fundamentals of building design, site design, and development. They apply math, science, and standard engineering practices to design both residential and commercial projects and document their work using 3D architectural design software. Architecture and the civil engineering disciplines of structural engineering, geotechnical engineering, land surveying, and more are introduced.

This course may be used to fulfill the recommended third year of Science for UC/CSU.

PLTW Digital Electronics

Year: 10 - 12 RCHS Graduation Requirement: Elective

UC/CSU - D



Prerequisite: Successful completion of IED

This course is based on the principles and laws of traditional electronics and electrical theory. Students will begin with a study of basic electrical theory then move on to learn the basic principles and theories of digital circuits on Multisim. Students develop solutions to solve the problems posed by essential and key questions in each unit and section overview. Projects include electronic dices and Digital multimeters. **This course may be used to fulfill the recommended third year of Science for the UC/CSU.**

Engineering Design and Development

Year: 12 RCHS Graduation Requirement: Elective

UC/CSU - D



Prerequisite: Successful completion of Digital Electronics

This PLTW capstone course is an engineering research course in which students work in teams to research, design, and construct a solution to an open-ended engineering problem. Students apply principles developed in the three preceding courses and are guided by a community mentor. The course covers common mechanical terms, components, and systems as related to mechanical engineering. **This course may be used to fulfill the recommended third year of Science for the UC/CSU.**

ELECTRONICS ACADEMY: [ENGINEERING, SCIENCE, and TECHNOLOGY ACADEMY](#) (Career Technical Education)

Intermediate Electronics

Year: 10 RCHS Graduation Requirement: Elective

UC/CSU - G



Prerequisite: [Application](#)

Electronic circuits and theory have an emphasis on construction. Students acquire extensive knowledge and skill with tools, machines and instruments used in building a variety of electronic devices. Instruction is primarily project-based in that students design and construct a strobe light using etching and tinning process, Christmas tree, burglar alarm, and breadboard circuits. Students learn about solar cells and its applications and build solar charger notebooks. Within the realm of semiconductor theory, students will have a broad study of diodes, transistors, logic gates, truth tables and Boolean Equation to prep them for the Digital Electronics Class.

AC/DC Circuitry

Year: 11 RCHS Graduation Requirement: Elective

Prerequisite: Intermediate Electronics

UC/CSU - G



In this course, students will learn to recognize and design both direct and alternating current circuits. Emphasis will be on the use of the oscilloscope, function generator and frequency counter. Stress will also be placed on understanding and using the mathematical formulas necessary for the design and function of electric/electronic circuits. Students will also work towards getting an IPC certification for the SMT and THT soldering techniques. There will be an opportunity for students to work with Grid Alternatives to build solar panels on houses in the community. **Students earn four units of community college credit through Sacramento Community College when students achieve 80% or higher in this course and on the final exam.**

Digital Electronics /Semiconductor Academy

Year: 12 RCHS Graduation Requirement: Elective

Prerequisite: AC/DC Circuitry

UC/CSU - G



This course is based on the principles and laws of traditional electronics and electrical theory. Digital Electronics and embedded micro-computers are in every product that is either plugged into a wall or operated by batteries, and is therefore a technology that all people are exposed to in their daily lives. Students will begin with a study of basic electrical theory then move on to learn the basic principles and theories of digital circuits on Multisim. The curriculum embraces the educational tenets of project based learning. **Students earn five units of community college credit through Sacramento Community College when students achieve 80% or higher in the course and on the final exam.**

CMOS Mask Design

Year: 11 - 12 RCHS Graduation Requirement: Elective

Prerequisite: Successful completion of DE / PLTW classes.

UC/CSU - G

This course is an entry level integrated circuit (IC) layout and design in CMOS (Complementary Metal Oxide Silicon) technology aligned with INTEL Design rules. Practical experience in drawing Logic diagrams, transistor level schematics, cross-sectional views, STIK diagrams, and in converting STIKS to the actual layout of the layers that will be used to manufacture the IC. The course stresses application of design rules, area estimation, and pin and bus placements.

HOSPITALITY: CULINARY ARTS (Career Technical Education)

Please see the website to see the full descriptions and benefits of the [Culinary Arts Pathway](#)

Culinary I (Course 1)

Year: 9 - 12 RCHS Graduation Requirement: Elective

(Bryte Campus)

UC/CSU - G



This course is designed to introduce students to the nutrient value, appetite appeal, social significance and implications of the farming industry upon food production. Students will participate in cooking labs, as well as a variety of classroom activities. Students will learn to follow recipes, measure ingredients accurately, and prepare food. Basic food science principles will be introduced. Kitchen safety and sanitation; proper use of equipment; and essential job skills in the food industry will be reinforced as well. This class takes place off campus at the Bryte Career and College Training Campus. Students are off campus for half the day and take a separate academic or career focused course offered at Bryte. Transportation to and from the site is provided. (College credit course for grades >80%)

Restaurant, Catering, and Commercial Food Production (Course 2)

Year: 9 - 12 RCHS Graduation Requirement: Elective

(Bryte Campus)

UC/CSU - G



This course will provide students with opportunities to build upon skills attained in the Culinary I course. Students will be responsible for planning, preparing, and servicing events in the on-campus café; effectively managing a beverage service facility; and developing a passion for the hospitality industry. Students can apply hours from working in the restaurant and working to cater events towards the 400-hour requirement for the National Restaurant Association Industry Certification that students can acquire in the Culinary II level. This class takes place off campus at Bryte Career and College Training Campus. Students are off campus for half the day and take a separate academic or career-focused course offered at Bryte. Transportation to and from the site is provided. (College credit course for grades >80%)



Culinary II (Course 3)

Year: 10 - 12 RCHS Graduation Requirement: Elective

(Bryte Campus)

UC/CSU - G



This advanced culinary course teaches skills in food production, preparation, customer service, and teamwork. Students will have an opportunity to cook and serve food in a café style setting. Instruction includes planning, selecting, storing, purchasing, preparing, testing, serving and selling of quality food and food products. Additional areas of study will include nutrition, safety and sanitation, use and care of commercial equipment, management of food establishments, cost and profitability analysis, handling customer orders, and food service standards, regulations and laws. Working in the Café periodically during lunch may be required. This class takes place off campus at Bryte Career and College Training Campus. Students are off campus for half the day and take a separate academic or career focused course offered at Bryte. Transportation to and from the site is provided. (College credit course for grades >80%)



COMPUTER SCIENCE & ENGINEERING PATHWAY (Career Technical Education)

This [Computer Science Pathway](#) is made up of three courses.

CSE Pathway Overview Video: <https://youtu.be/vKOUEVRwMdM>



Please fill out the CSE Pathway Interest form: <https://forms.gle/AYFXRHVYbvbitVVeP9>

Computer Game Design and Programming

Year: 9-12 RCHS Graduation Requirement: Elective

UC/CSU – G



Prerequisite: None

In this course students learn to program 3D animations using Alice, develop 2D games using JavaScript, and are introduced to the Java programming language. Students design and create animated stories, simulations and games by using objects in a virtual world. In this course, Students will learn programming by building mobile apps. This course of study engages students with little or no programming experience. Students are introduced to object oriented concepts, terminology, syntax, and the steps required to create basic Java programs using hands-on, engaging activities.

[AP Computer Science Principles](#)



[AP Computer Science A](#)



ROBOTICS ([Career Technical Education](#))

Robotics Engineering I

Year: 9 - 10 RCHS Graduation Requirement: Elective

UC/CSU - G



Prerequisite: Successful completion of Math 8 or higher

This is an entry level course that will allow students to develop 21st century skills such as teamwork, problem solving, ideation, project management, and communication skills. This course will involve students in the development, building, and programming of LEGO EV3 and VEX IQ robots. In this course they will learn or reinforce their knowledge of science, technology, engineering, and mathematics (STEM) concepts. Topics may include the fundamental components of a robot, introduction to C++ and python programming and the use of robotic sensors and motors.

Robotics Engineering II

Year: 10 - 12 RCHS Graduation Requirement: Elective

UC/CSU - G



Prerequisite: Successful completion of Robotics I

Students will apply the skills learned in the Robotics Engineering 1 course and use C++, python and ChIDE programming language to build, program and troubleshoot their VEX and LinkBot mobile robots. They will also learn to build and program Drones. Topics may include motor control, gear ratios, torque, friction, sensors, timing, program loops, logic gates, decision making, timing sequences, propulsion systems, and binary number systems. Students in this course may be required to represent RCHS in community related robotics activities at local and statewide robotics competitions.

RESIDENTIAL AND COMMERCIAL CONSTRUCTION ([Career Technical Education](#))

Building Industry Technology Academy (BITA) Level 1

Year: 9 - 12 RCHS Graduation Requirement: Elective

(Bryte Campus)

UC/CSU - G



This is a training program which combines classroom work in unpaid, on-the-job experience related to careers with construction. The class will include hands-on experience in solar design and installation of photovoltaic panels in addition to carpentry/framing, electrical, construction laborer, painting, etc. Students will have the opportunity to participate in an installation of solar panels on a home in West Sacramento. Students who complete this course successfully will obtain a Power Tool Safety Certificate. (College credit course for grades >80%)

Building Industry Technology Academy (BITA) Level 2

Year: 10 - 12 RCHS Graduation Requirement: Elective

(Bryte Campus)

UC/CSU - G



Prerequisite: BITA 1

An advanced construction training program which combines classroom work in unpaid, on-the-job experience related to careers with construction. The class will include advanced techniques in solar energy design, carpentry and framing, electrical, construction labor, painting, etc. Students have the opportunity to participate in an installation of solar panels on a home in West Sacramento. Graduating students explore apprenticeship opportunities with local unions. Students who complete the pathway successfully will obtain a CTE Construction Management Completion Certificate as well as a Forklift Safety Certificate. (College credit course for grades >80%)

MEDIA STUDIES

Introduction to Video Production

Year: 9 - 11 RCHS Graduation Requirement: Elective

UC/CSU - G



Beginning Video Production is an entry level course in which students learn the basics of creativity, visual thinking, and the practical aspects of video production: use of video cameras, digital editing, and creating different types of concept videos. Students learn to communicate effectively by working individually and in groups to plan productions, create storyboards, write scripts and edit videos.

Students will learn editing by using Adobe After Effects, software that is used by professionals in television and movie production.

Advanced Video Production

Year: 10 - 12 RCHS Graduation Requirement: Elective

UC/CSU - G



Prerequisite: Successful completion of Video Production

Enter into the world of documentary film-making as you pursue school and local news, including helping to produce the weekly RCTV shows. Cover events and activities in and around the school in order to keep the student body, faculty and community informed as to what's happening at River City. Learn how to read the news on camera, interview people and create news packages. Required: out of class hours to cover after school activities including sporting events and other school events or local activities.

Journalism and Communication Studies

Year: 9 - 12 RCHS Graduation Requirement: Elective

UC/CSU - G

This course is a combination of beginning journalism, media studies and media production. Students will learn journalistic writing techniques including editorial, news, sports and features writing. Students study media bias and influences as well as the history of journalism and evolution of media in the US. In addition, students will work together to produce projects which may include a school newspaper, blog, website, journal, etc... participating in all aspects of production including story assignment and writing, editing, photography, design and layout. Students will work with multiple programs.

Yearbook

Year: 9 - 12 RCHS Graduation Requirement: Elective

UC/CSU - G

Prerequisite: Yearlong - must be requested for two elective positions on the course request sheets.

This year-long course offers participants the opportunity to produce River City's annual yearbook. In this 21st Century, cross-curricular, project-based class, students work collaboratively using technology such as digital cameras, photo editing software, and online design software to digitally produce a yearbook.

Students use writing skills, communication skills, and creativity to tell the story of the school community and peers in an engaging way. In this college and career ready course, students think critically to meet deadlines, work towards goals, and utilize multimedia to market and disseminate information that aligns with and models an actual business.

STAFF ASSISTANT

Office Aide / Classroom Assistant

Year: 11 - 12 RCHS Graduation Requirement: Elective

Prerequisite: 2.0 GPA Students are assigned to job stations in the school and may be required to assist in preparation of materials, set up, use, and clean up of equipment. Assignments are in attendance, counseling, library and placement with teachers based on need and availability. Students are under the direct supervision of the office staff or teacher they are assigned to. Students are expected to maintain good attendance and grades, complete tasks on time, and will be required to sign in with the supervising staff member. Students do not earn a grade, they receive a CR / No CR mark on their transcript. Students with poor attendance or behavior will be dropped.