

CHOOSE Your Path

RCAS Academies & Pathways Course Guidebook

GRADUATING CLASS OF 2024 AND BEYOND

4 RCAS GRADUATION REQUIREMENTS

Required credits and advanced endorsement options

11 COLLEGE AND CAREER PREPARATION

College admission and placement exams

6 4 YEAR COURSE PLANNER

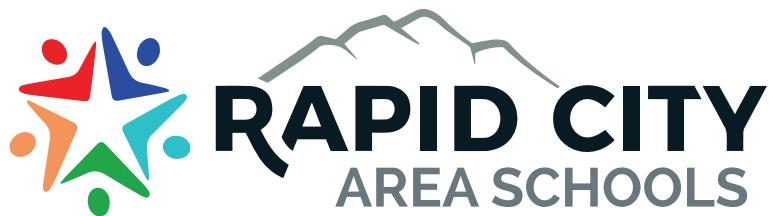
Map out your high school coursework

16 RCAS ACADEMIES & PATHWAYS REQUIRED CREDITS

Explore your options through career-connected learning



Course Guidebook online at rcas.org



MISSION

Challenge, engage, and empower students to thrive in their future in a diverse world.



VISION

Building tomorrow's community through inspiration, innovation, and excellence.

PURPOSE

This Course Guidebook will assist high school students, families, teachers, and school counselors to select courses and college, career, and life readiness opportunities in a sequence that best meets the needs of each student. A pathway that correlates with students' interests and aptitudes leads to the achievement of college, career, and life readiness goals.

Students are encouraged to choose courses that will stretch, challenge, and allow them to explore all available opportunities while meeting RCAS graduation requirements.



Central High School
433 Mt. Rushmore Road North
605-394-4063



Stevens High School
4215 Raider Road
605-394-4025

TABLE OF CONTENTS

Graduation Requirements	4
Graduation Requirements - Advanced Endorsements	5
4 Year Course Planner	6
College - A New Definition	7
Profile of a Graduate	8-9
College, Career, & Life Readiness Plan	10
College & Career Preparation & Assessments	11-12
South Dakota College & University Admissions	13
South Dakota College & University Proactive Admissions	14
Paying for College	15
RCAS Academies & Pathways Required Credits	16
RCAS Academy of Advanced Technology	
<i>Business, Entrepreneurship, & Hospitality Pathway Courses</i>	17-20
<i>Construction Pathway Courses</i>	21-23
RCAS Academy of Arts, Humanities, & Human Services	
<i>Human Services Pathway Courses</i>	24-29
<i>Performing Arts Pathway Courses</i>	30-33
<i>Visual Arts Pathway Courses</i>	34-37
RCAS Academy of STEM	
<i>Agriculture, Food, & Natural Resources Pathway Courses</i>	38-41
<i>Engineering Pathway Courses</i>	42-45
<i>Healthcare Pathway Courses</i>	46-50
<i>Information Technology Pathway Courses</i>	51-53
Course Descriptions	
<i>English Language Arts</i>	54-55
<i>Fine Arts</i>	56-59
<i>Health & Physical Education</i>	60-61
<i>Math</i>	62-64
<i>Science</i>	65-67
<i>Social Studies</i>	68-69
<i>World Language</i>	70-72
<i>Other Offerings</i>	73-74
<i>Capstone Courses</i>	75
Registration & Course Selection Policies & Procedures	76-79
Glossary	80
Appendix A	81

GRADUATION REQUIREMENTS

22 CREDITS REQUIRED (CLASS OF 2024 AND BEYOND)

English (4 credits total)

English 9	1 credit (includes Writing)
English 10	1 credit (includes .5 credit Speech or Debate)
English 11	1 credit (includes .5 credit American Literature)
Language Arts Electives	1 credit

Mathematics (3 credits total)

Algebra 1	1 credit
Geometry	1 credit
Math Elective	1 credit

Science (3 credits total)

Biology	1 credit
A Physical Science Course	1 credit
Science Elective	1 credit

Social Studies (3 credits total)

U.S. History 1, 2, & 3	1.5 credits
U.S. Government	.5 credit
World Geography	.5 credit
World History	.5 credit

Fine Arts (1 credit)

Technology (.5 credit)

Computer Applications	.5 credit
------------------------------	-----------

PE/Health (1 credit)

Economics or Personal Finance (.5 credit)

RCAS Academies Credits (3.5 credits total)

Freshman Seminar	.5 credit
Academy Credits	2 credits
GRADtime	1 credit

Electives (2.5 credits)



GRADUATION REQUIREMENTS - ADVANCED ENDORSEMENTS

In addition to the base requirements for RCAS Base High School Diploma, students may earn advanced endorsements that are in alignment with the student's personal learning plan. Advanced endorsements outline specific coursework within the base diploma requirements to denote specific emphases. Student may earn one or more of three advanced endorsements: Advanced Endorsement, Advanced Career Endorsement and Advanced Honors Endorsement. Rapid City Area Schools acknowledges all advanced endorsements and will include these endorsements on transcripts. The requirements beyond the RCAS base high school diploma requirements are in **green text** in each advanced endorsement section below.

ADVANCED ENDORSEMENT REQUIREMENTS - Indicates a student has pursued coursework consistent with entrance requirements for postsecondary education at a university.

4 CREDITS OF ENGLISH LANGUAGE ARTS must include:	<ul style="list-style-type: none"> • English 9 (Includes writing): 1 credit • English 11 (Includes .5 credit of American Literature): 1 credit 	<ul style="list-style-type: none"> • English 10 (Includes Speech or Debate .5 credit): 1 credit • Language Arts Elective: 1 credit 	1 CREDIT OF FINE ARTS
3 CREDITS OF MATHEMATICS must include:	<ul style="list-style-type: none"> • Geometry: 1 credit 	<ul style="list-style-type: none"> • Algebra 1: 1 credit • Algebra 2: 1 credit 	.5 CREDIT OF PERSONAL FINANCE or ECONOMICS
3 CREDITS OF SCIENCE must include:	<ul style="list-style-type: none"> • A Physical Science Course: 1 credit 	<ul style="list-style-type: none"> • Biology: 1 credit • Lab Science Elective: 1 credit 	1 CREDIT OF PHYSICAL EDUCATION/HEALTH
3 CREDITS OF SOCIAL STUDIES must include:	<ul style="list-style-type: none"> • U.S. History: 1.5 credits • World Geography: .5 credit 	<ul style="list-style-type: none"> • U.S. Government: .5 credit • World History: .5 credit 	.5 CREDIT OF COMPUTER APPLICATIONS
3.5 RCAS ACADEMIES CREDITS			2.5 CREDITS OF ELECTIVES

ADVANCED CAREER ENDORSEMENT REQUIREMENTS - Indicates a student has career experience in a concentrated area, based on academic and/or workplace experience and a related credential.

4 CREDITS OF ENGLISH LANGUAGE ARTS must include:	<ul style="list-style-type: none"> • English 9 (Includes writing): 1 credit • English 11 (Includes .5 credit of American Literature): 1 credit 	<ul style="list-style-type: none"> • English 10 (Includes Speech or Debate .5 credit): 1 credit • Language Arts Elective: 1 credit 	1 CREDIT OF FINE ARTS
3 CREDITS OF MATHEMATICS must include:	<ul style="list-style-type: none"> • Geometry: 1 credit 	<ul style="list-style-type: none"> • Algebra 1: 1 credit • Math Elective: 1 credit 	.5 CREDIT OF PERSONAL FINANCE or ECONOMICS
3 CREDITS OF SCIENCE must include:	<ul style="list-style-type: none"> • A Physical Science Course: 1 credit 	<ul style="list-style-type: none"> • Biology: 1 credit • Science Elective: 1 credit 	1 CREDIT OF PHYSICAL EDUCATION/HEALTH
3 CREDITS OF SOCIAL STUDIES must include:	<ul style="list-style-type: none"> • U.S. History: 1.5 credits • World Geography: .5 credit 	<ul style="list-style-type: none"> • U.S. Government: .5 credit • World History: .5 credit 	.5 CREDIT OF COMPUTER APPLICATIONS
3.5 RCAS ACADEMIES CREDITS from the same career cluster or Capstone Experience AND attainment of an industry-recognized credential or National Career Readiness Certificate of Silver or higher			2.5 CREDITS OF ELECTIVES

ADVANCED HONORS ENDORSEMENT REQUIREMENTS - Indicates a student has pursued advanced rigorous, academic coursework consistent with 813-55-31 (High school course requirements for opportunity scholarship eligibility: sdos.sdbor.edu). All coursework completed with a "C" or higher.

4 CREDITS OF ENGLISH LANGUAGE ARTS must include:	<ul style="list-style-type: none"> • English 9 (Includes writing): 1 credit • English 11 (Includes .5 credit of American Literature): 1 credit 	<ul style="list-style-type: none"> • English 10 (Includes Speech or Debate .5 credit): 1 credit • Language Arts Elective: 1 credit 	1 CREDIT OF FINE ARTS
4 CREDITS OF MATHEMATICS must include:	<ul style="list-style-type: none"> • Geometry: 1 credit • Advanced Mathematics: 1 credit (details at sdos.sdbor.edu) 	<ul style="list-style-type: none"> • Algebra 1: 1 credit • Algebra 2: 1 credit 	.5 CREDIT OF PERSONAL FINANCE or ECONOMICS
4 CREDITS OF SCIENCE must include:	<ul style="list-style-type: none"> • Chemistry: 1 credit • Science Elective: 1 credit 	<ul style="list-style-type: none"> • Biology: 1 credit • Physics or any Physical Science: 1 credit 	1 CREDIT OF PHYSICAL EDUCATION/HEALTH
3 CREDITS OF SOCIAL STUDIES must include:	<ul style="list-style-type: none"> • U.S. History: 1.5 credits • World Geography: .5 credit 	<ul style="list-style-type: none"> • U.S. Government: .5 credit • World History: .5 credit 	.5 CREDIT OF COMPUTER APPLICATIONS
3.5 RCAS ACADEMIES CREDITS			2.5 CREDITS OF ELECTIVES

4 YEAR COURSE PLANNER

Required Areas	Graduation Requirements*	9th Grade	10th Grade minimum of 5 credits earned	11th Grade minimum of 11 credits earned	12th Grade minimum of 16 credits earned
ENGLISH	4.0 credits English 9 (includes Writing): 1.0 credit English 10 (includes .5 credit Speech or Debate): 1.0 credit English 11 (includes .5 credit American Literature): 1.0 credit Language Arts Electives: 1.0 credit	English 9 or Advanced English 9	English 10 or Advanced English 10	English 11 or AP English Language and Composition	English 12, AP, or Dual Credit
MATH	3.0 credits Algebra 1: 1.0 credit Geometry: 1.0 credit Math Elective: 1.0 credit	Bridge Math or Algebra 1	Algebra 1 or Geometry	Geometry, Math Elective, AP, or Dual Credit	Math Elective, AP, or Dual Credit
SCIENCE	3.0 credits Biology: 1.0 credit Physical Science or Chemistry: 1.0 credit Science Elective: 1.0 credit	Biology 1 & 2	Any Physical Science	Science Elective, AP, or Dual Credit	Science Elective, AP, or Dual Credit
SOCIAL STUDIES	3.0 credits World Geography: .5 credit World History: .5 credit U.S. History 1,2, and 3: 1.5 credits U.S. Government: .5 credit	World History and World Geography	U.S. History 1 & 2	U.S. History 3, U.S. Government, AP, or Dual Credit	U.S. History 3, U.S. Government, AP, or Dual Credit
FINE ARTS	1.0 credit				
TECHNOLOGY	0.5 credit Computer Applications	Computer Applications (.5)			
PE/HEALTH	1.0 credit				
ECONOMICS or PERSONAL FINANCE	0.5 credit				
RCAS ACADEMIES CREDITS	3.5 credits	GRADtime (.25)	GRADtime (.25)	GRADtime (.25)	GRADtime (.25)
		Explore Course Freshman Seminar (.5)	Engage Course (1.0)	Experience Course (1.0)	Optional Experience Course, AP, or Dual Credit
ELECTIVES	2.5 credits				
Total	22.0 credits	7.0			

*Graduation Requirements for the Rapid City Area School District Base Diploma based on the successful completion of a minimum of twenty-two (22) units of credit per RCAS [District Policy IKF](#) for the graduating class of 2024 and beyond.

Coursework listed in green are suggestions for students to complete during the specified grade level. Students on an accelerated path or students seeking additional academic support may select alternative coursework to complete this plan.

COLLEGE - A NEW DEFINITION



The term “**college**” means any educational training opportunity beyond high school. It may include credentials, certificates, military service, and/or college – whether that is a one-year, two-year, and/or four-year degree program.

WHAT IS COLLEGE READY?

Students meet academic indicators, standardized test benchmarks, and complete credit-bearing general education courses or a certificate program without remediation.

WHAT IS CAREER READY?

Students have explored and identified a career interest and possess sufficient foundational knowledge, skill, and general learning strategies necessary to begin studies in a career pathway.

WHAT IS LIFE READY?

Students leave high school with grit and perseverance to achieve their goals, as well as possess a growth mindset that empowers them to approach their future with confidence.

PROFILE OF A GRADUATE

The Rapid City Area School District and its business and community partners have jointly developed and adopted the RCAS Profile of a Graduate which embraces the academic knowledge, skills, and attributes needed for a student to make a successful transition to college, career, and life responsibilities.

With the RCAS Profile of a Graduate, educators can begin to review curriculum and actively create learning experiences that introduce and reinforce the competencies identified in the Profile of a Graduate.

Community partners can use the Profile of a Graduate as a reference point for reinforcing community expectations for work and personal character.



COLLEGE READY



- Meet standardized testing benchmarks
- Develop a college, career, and life readiness plan
- Participate in a work-based or service-learning capstone experience
- Earn college credit, an industry certificate, or both

CAREER READY



- Collaborate and communicate effectively and respectfully
- Demonstrate innovation and creativity
- Analyze problems by exercising critical thinking skills
- Deliver clear and concise ideas through verbal and written communication
- Possess the foundational knowledge and skills necessary to navigate a career search, advancement, and transitions

LIFE READY



- Embody and practice civic engagement and global citizenship
- Manage and balance time, resources, and responsibilities
- Demonstrate adaptability and tenacity in pursuing personal goals
- Build and maintain positive relationships

PROFILE OF A GRADUATE CONTINUED

Preparing for life beyond high school is about more than the classes you take. It's also about developing the skills that will help you succeed in college, career, and life. Consider the following suggested opportunities and benchmarks that will keep you on track during your high school journey and prepare you for success after graduation.

Freshman Year

- Meet with your school counselor to talk about career exploration and a course plan that will lead you to success
- Explore extra-curricular activities, volunteer opportunities, and clubs
- Estimate your financial aid needs using FAFSA4caster and either continue or start saving for college
- Identify what kind of education and training is needed for your careers of interest

Sophomore Year

- Meet with your school counselor to talk about course planning
- Complete the My Skills Lab in SDMyLife
- Practice for the ACT using Method Test Prep or SDMyLife
- Take the PreACT
- Create a folder to begin collecting college information
- Continue your college savings plan and begin looking at cost specifics
- Focus on extra-curricular activities and leadership opportunities of interest
- Learn more about earning early college credit through Advanced Placement (AP) and Dual Enrollment courses

Junior Year

- Meet with your school counselor to talk about course planning
- Take the ACT, SAT, and/or ASVAB
- Start looking at colleges and/or universities of interest that match your college, career, and life goals
- Visit your colleges and/or universities of interest
- Begin putting together an academic resume and portfolio
- Seek out volunteer and work-based learning opportunities
- Begin searching for scholarships
- Continue your college savings plan
- Continue participation in extra-curricular activities
- Consider earning early college credit through AP and Dual Enrollment courses
- Take the Smarter Balanced Assessment Consortium (SBAC) standardized test

Senior Year

- Meet with your school counselor to make sure you are on track to graduate
- Take the ACT, SAT, and/or ASVAB again, if needed
- Consider earning early college credit through AP and Dual Enrollment courses
- Ask for Letters of Recommendation early in the school year
- Apply for admissions to your colleges and/or universities of choice
- Participate in College Application Week
- Complete the FAFSA
- Apply for scholarships
- Take the ACT National College and Career Readiness Certificate (NCRC) assessment
- Visit the colleges and/or universities that you have been accepted to
- Make a decision and celebrate!

COLLEGE, CAREER, & LIFE READINESS PLAN

What are your college, career, and life aspirations? Use this College, Career & Life Readiness Plan to begin determining the steps you need to take during high school to ensure that you graduate college, career, and life ready!



Identify a Career Interest

Identifying a career interest is an important part of your College, Career, & Life Readiness Plan. Use the space below to brainstorm a few of your career interests.



Identify a College Option

The term "college" means any educational training opportunity beyond high school. Which of the following college opportunities most closely aligns with the training needed to secure your desired career?

CREDENTIALS

ONE-YEAR DEGREE

CERTIFICATE

TWO-YEAR DEGREE

MILITARY SERVICE

FOUR-YEAR DEGREE

Now that you've identified the training opportunity you will need beyond high school, where can you go for this training?

(Write your answer here) _____



Identify College & Career Preparation & Assessments

Circle the college and career preparation and assessments below that align with your career interest and college option.



NATIONAL
CAREER READINESS
CERTIFICATE®



Align High School Courses

What course offerings and electives will help you further your preparedness for life beyond high school? Use the space below to write specific courses you plan to take to achieve your college, career, and life ready aspirations.



High School Experiences

What activities, clubs, and work-based or service-learning experiences would you enjoy participating in during high school that will help you develop leadership and communication skills? Use the space below to list specific high school experiences you want to be involved in.

COLLEGE & CAREER PREPARATION & ASSESSMENTS

CAREER EXPLORATION

SDMyLife is an online program assisting students with navigating the career development process. To find a good match, students take interest assessments. They can explore by career cluster, keyword, or school subject. Students can also research postsecondary and ability assessments, education and training options, build a portfolio, study for the ACT with Method Test Prep, and find out about scholarship opportunities.

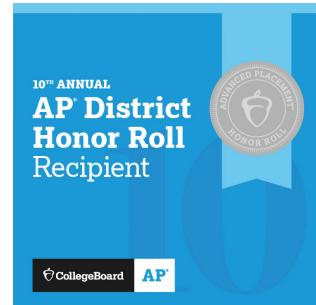


COLLEGE CREDIT

Advanced Placement Program

apstudents.collegeboard.org

The Advanced Placement Program (AP) is a voluntary program that gives students a chance to experience college-level classes in high school and opens the door to earning college credit before ever setting foot on a college campus. While digging deeper into subjects they love, students will build the skills and confidence they need to succeed in college.



College Level Examination Program

clep.collegeboard.org

The College Level Examination Program (CLEP) assesses college-level knowledge in thirty-six subject areas and provides a mechanism for earning college credits without taking college courses.



Course Equivalency Exam (Test-Out) Program

Rapid City Area School District Policy allows any RCAS student in grades 9-12 to challenge courses specifically identified by the Board of Education. Students are allowed to test out of and receive up to eight credits toward high school graduation when earning a minimum score of 85% for each exam taken. To learn more about the RCAS Test Out Program, visit rcas.org.

Dual Enrollment

Earning college credit in high school means paying for fewer credits in college. Dual enrollment opportunities also open up your college schedule, allowing you to take more electives, pursue a second major, or study abroad.

The South Dakota Legislature has appropriated funding for the creation of the South Dakota High School Dual Credit program. Through this program, participating public universities and technical institutions provide eligible high school students with dual credit course(s) that are governed by the postsecondary institution's policies. This program makes course work available to students at a reduced tuition rate set each year.

Students are responsible for the cost of the course credits and any required course materials and textbooks for all dual enrollment courses including at Western Dakota Technical College.

For the dual enrollment application process for South Dakota Universities and Technical Colleges, visit sdmylife.com/prepping-for-college/dual-credit.

COLLEGE & CAREER PREPARATION & ASSESSMENTS CONTINUED

COLLEGE ADMISSIONS

The ACT

act.org

The PreACT simulates the ACT testing experience within a shorter test window on all four ACT test subjects.



The ACT (originally an abbreviation of American College Testing) college readiness assessment is a standardized test for high school achievement and college admissions in the United States which includes four sections: science, math, reading, and an optional writing component. Most colleges will accept a student's ACT scores as part of the admissions evaluation.

College Board Assessments

collegeboard.org

The PSAT is an assessment developed by The College Board to determine college readiness for students in grades 9-11. Students are assessed in the areas of critical reading, mathematics, and written expression in preparation for the SAT1: Reasoning Test. Students who take the PSAT/NMSQT and obtain a qualifying score will be invited to apply for the National Merit Scholarship program.



The SAT is a standardized test developed by The College Board that measures verbal, mathematical reasoning and writing skills. Four-year colleges use a student's score on this test as part of the admissions evaluation for acceptance.

ACCUPLACER is an integrated system of computer-adaptive assessments designed by The College Board to evaluate students' skills in reading, writing, and mathematics. The results of the assessment, in conjunction with your academic background, goals, and interests are used by academic advisors to determine your course selection.



Grade	Required & Recommended Exam(s)
9 th	PreACT
10 th	PreACT AP Exam(s) to earn college credit
11 th	ACT SAT (optional) PSAT/NMSQT for students hoping to qualify for the National Merit Scholarship AP Exam(s) to earn college credit Accuplacer when applicable for Dual Enrollment Placement Smarter Balanced/SD Science Assessment
12 th	ACT and/or SAT AP Exam(s) to earn college credit Accuplacer when applicable for Dual Enrollment Placement or Technical College Admission NCRC Assessment ASVAB when applicable

CAREER TESTING

National Career Readiness Certificate

The ACT National Career Readiness Certificate (NCRC) is a portable, evidence-based credential that certifies the essential skills for workplace success. Employers look for it from job candidates, whether they come directly from high school, work-based learning programs, or through postsecondary pathways, because it is a valid predictor of job performance.



Armed Services Vocational Aptitude Battery

officialasvab.com

The Armed Services Vocational Aptitude Battery (ASVAB) is a timed multi-aptitude test that measures developed abilities and helps predict future academic and occupational success in the military.



SOUTH DAKOTA COLLEGE & UNIVERSITY ADMISSIONS

Admission Requirements to South Dakota Universities

Applicants must meet the general and subject matter requirements; including GPA, Class Rank, or college entrance exams (ACT/SAT).

The state-funded regental institutes in South Dakota are as follows:

Black Hills State University, Spearfish bhsu.edu

Dakota State University, Madison dsu.edu

Northern State University, Aberdeen nothern.edu

South Dakota School of Mines & Technology, Rapid City sdsmt.edu

South Dakota State University, Brookings sdstate.edu

University of South Dakota, Vermillion usd.edu

Admission Requirements for South Dakota Technical Colleges

Admission to a postsecondary technical college is based on individual program requirements. All applicants must submit a high school transcript. Students may be required to take an Accuplacer exam for placement in some courses. Students who plan to pursue this education are advised to enroll in academically challenging subjects at the high school level, especially math, science, and computers. Technical and multi-district courses are strongly encouraged. Postsecondary credits may be earned at the high school level in most programs through articulated credit.

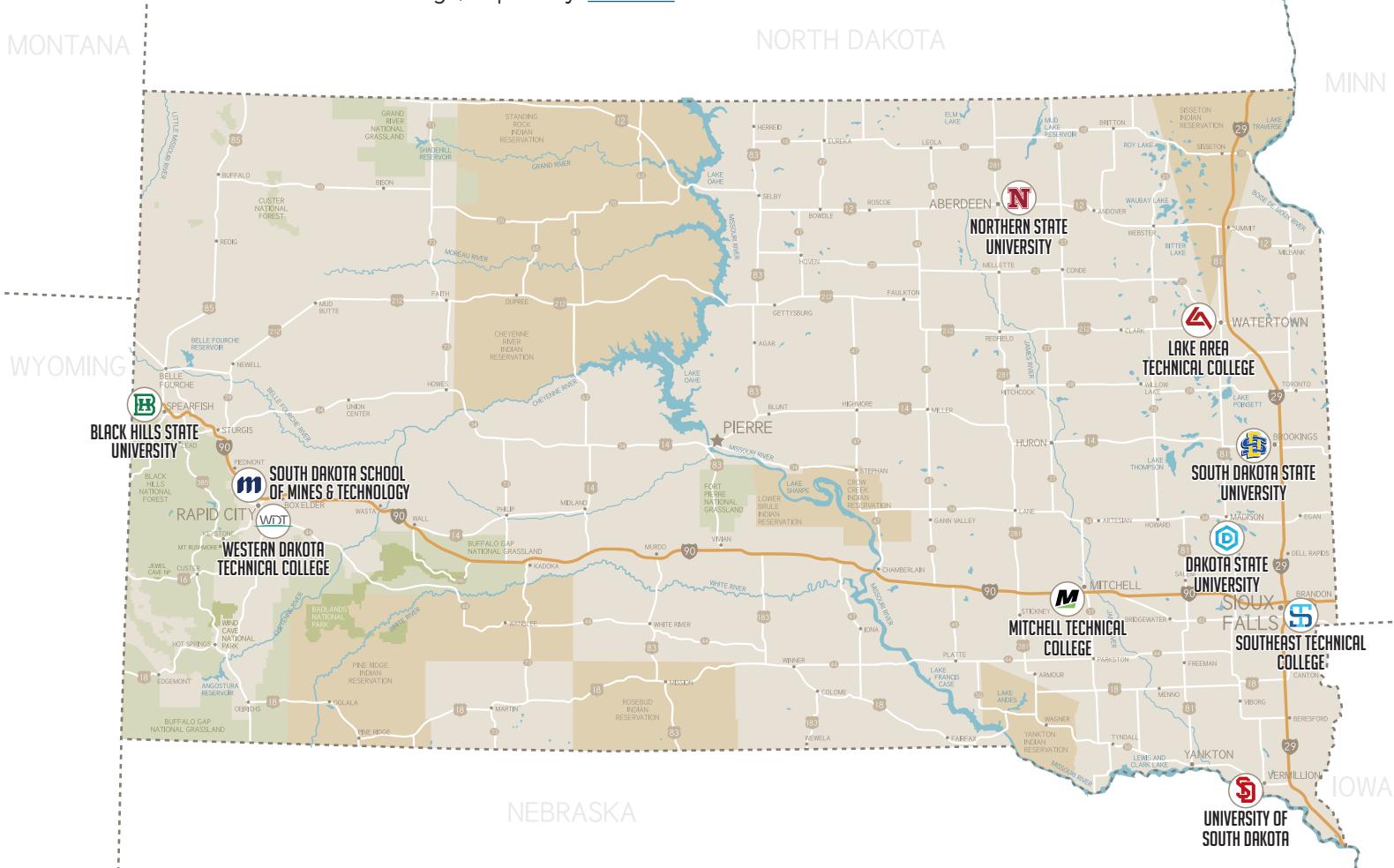
The state-funded postsecondary technical colleges in South Dakota are as follows:

Lake Area Technical College, Watertown lakeareatech.edu

Mitchell Technical College, Mitchell mitchelltech.com

Southeast Technical College, Sioux Falls southeasttech.edu

Western Dakota Technical College, Rapid City wdt.edu



SOUTH DAKOTA COLLEGE & UNIVERSITY PROACTIVE ADMISSIONS

Smarter Balanced Assessment Consortium

South Dakota's public postsecondary institutions now use student performance on the Smarter Balanced Assessment Consortium (SBAC) test and the ACT to determine automatic eligibility for admission.

Smarter Balanced assessments are customized for each student to provide a more accurate measurement for every student through the use of computer adaptive testing.



Proactive Admissions

The South Dakota Department of Education is reaching out to qualifying South Dakota high school students in the fall of their senior year to alert them that they have already met criteria for guaranteed general acceptance into the state's six public universities and four technical institutes. For more information on this initiative, visit sdmylife.com.

WHAT IS GUARANTEED GENERAL ACCEPTANCE?

Guaranteed general acceptance is automatic eligibility for admission into any of South Dakota's six public universities and four technical institutes, based on Smarter Balanced test and ACT scores.

WHAT ARE THE ELIGIBILITY CRITERIA FOR GUARANTEED GENERAL ACCEPTANCE?

Students have two ways in which they can demonstrate eligibility for guaranteed general acceptance into the South Dakota public university or technical institute of their choice:

- Achieve a Level 3 or 4 on the English Language Arts and Math portions of the 11th grade Smarter Balanced Test.
- Or
- Achieve an ACT composite score of 18* or higher.

(* The South Dakota School of Mines & Technology requires an ACT score of 18 in English and 20 in Math)

WHAT DO STUDENTS NEED TO DO AFTER EARNING GUARANTEED GENERAL ACCEPTANCE?

Students must complete their application for admission, pay the application fee, and submit their official high school transcript to the school(s) of their choice by December 1 of their senior year in order to take advantage of guaranteed general acceptance. After December 1, students may still apply, but their acceptance is no longer guaranteed.

Students must graduate high school during the school year in which they are granted guaranteed general acceptance.

SO YOU'VE BEEN ACCEPTED, NOW WHAT?

Just as the hard work in applying for college is complete, now you must ensure the appropriate steps are taken as you prepare to enter college. Here are a few things to think about as you look ahead:

- Once you complete the acceptance paperwork to your chosen college or university, make sure to let the other institutions you were accepted to know you will not be attending there.
- Begin applying for scholarships.
- Connect with your college or university on social media and through newsletters to learn about activities, clubs, and events that occur on campus.
- Begin working to identify housing and meal plan options. Check with your college or universities student resident life and dining office for additional help and resources.
- If you will be living in a dormitory with a roommate, you may want to reach out and get to know your future roommate and make plans for your joint living space.
- Attend Freshman Orientation. During this time, you may be selecting your classes and receiving your student ID.

PAYING FOR COLLEGE

Financial aid comes in the form of scholarships, grants, loans, and work-study jobs. Make sure you know the facts and are financially prepared for college, career, and life success!

Scholarships

Scholarships are a form of financial aid that does not have to be repaid or earned through employment. Scholarship usually refers to an award based on academic merit; however, scholarships are also awarded for performing community service, leadership, talent, etc.

Visit the South Dakota Department of Education's website, doe.sd.gov, to view scholarship opportunities specific to South Dakota colleges and universities.



Check out the following websites for additional scholarship opportunities:

[Stevens High School Scholarship](http://www.stevenshighscholarship.com)

[Central High School Scholarship](http://www.centralhighscholarship.com)

Fastweb Scholarship Search [fastweb.com](http://www.fastweb.com)

Access to over 1.5 million scholarships to help you pay for college.

College Board Scholarship Search bigfuture.collegeboard.org

Find scholarships, other financial aid, and internships from more than 2,200 programs, totaling nearly \$6 billion.

College Scholarships collegescholarships.org

Search for national, state, and local scholarships plus scholarship essay examples and financial aid resources.

RaiseMe raise.me

RaiseMe allows students to earn scholarships from colleges for the things that best prepare you to succeed in high school, like having perfect attendance, getting an A in a class, participating in an extracurricular activity and more.

Federal Student Aid

Thousands of schools across the country participate in federal student aid programs; ask the schools you're interested in whether they do!

Free Application for Federal Student Aid (FAFSA) studentaid.ed.gov

The FAFSA form is a free application used to apply for federal student aid, such as federal grants, loans, and work-study.

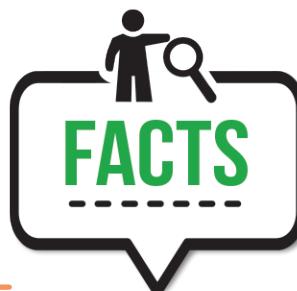
Grants - Grants are financial aid, often based on need, that does not need to be repaid (unless, for example, a student were to withdraw from school and owe a refund).

Subsidized Loans - Subsidized loans are based on financial need for which the federal government generally pays the interest that accrues while the borrower is in an in-school, grace, or deferment status, and during certain periods of repayment under certain income-driven repayment plans.

Unsubsidized Loans - Unsubsidized loans mean the borrower is fully responsible for paying the interest regardless of the loan status. Interest on unsubsidized loans accrues from the date of disbursement and continues throughout the life of the loan.

Work-Study - A federal student aid program that provides part-time employment while a student is enrolled in school to help pay educational expenses.

Resources at ourdakotadreams.com help you determine projected college costs for South Dakota's colleges and universities.



Students are eligible for federal student aid even when studying at a school outside of the United States.

The U.S. Department of Education awards more than \$120 billion a year in grants, work-study funds, and low-interest loans to more than 13 million students.

collegeaccess529.com are College Savings Plans designed to help individuals and families save for college in a tax-advantaged way. These plans are named for Section 529 of the Internal Revenue Code.

RCAS ACADEMIES & PATHWAYS REQUIRED CREDITS

RCAS ACADEMIES

RCAS offers nine (9) pathways organized into three (3) academies that are not only tailored to regional needs, but also address national and global workforce opportunities.



Academy of Advanced Technology



Business, Entrepreneurship, &
Hospitality Pathway



Construction
Pathway



Academy of Arts, Humanities, & Human Services



Human Services
Pathway



Performing Arts
Pathway



Visual Arts
Pathway



Academy of STEM



Agriculture, Food, &
Natural Resources
Pathway



Engineering
Pathway



Healthcare
Pathway



Information
Technology
Pathway

Academy

An academy is a learning community organized into one or more pathways that includes career-connected learning and provides students with increased personalized attention.

Career Pathways

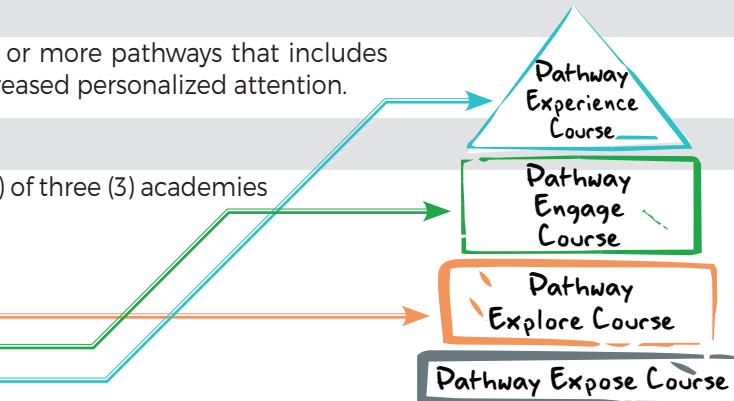
A pathway is a chosen course of study housed within one (1) of three (3) academies offered in Central and Stevens High Schools.

Within an RCAS Academy, a student will take:

- A **Pathway Explore Course**;
- A **Pathway Engage Course**;
- A **Pathway Experience Course**;

and

- Electives, including Fine Arts, World Language, Physical Education, and Special Offering courses.



9th
Grade

In 9th grade, all students will be in **Freshman Academy**. The Freshman Academy is a small learning community with a network of teachers focused on helping students make a successful high school transition and future academy and pathway selection. This Academy will provide coursework in core content areas, elective opportunities, and career and academy exploration through the **Pathway Explore course: Freshman Seminar**. During their freshman year, students will select one of the nine RCAS Academy pathways to enter in 10th grade.

10th
Grade

In 10th grade, students will learn more about the careers offered in their chosen pathway through their **Pathway Engage Courses**. In addition, students will gain exposure to their chosen academy through an industry tour organized during the 10th grade year.

11th -12th
Grade

In 11th grade, students will have the opportunity to become more specialized in their pathway by enrolling in a **Pathway Experience Course** offering, to include include Capstone Courses, industry certifications, and specialized courses. Experience courses will allow students the opportunity to consolidate and apply learning from their other Academy courses into a meaningful and relevant career-connected experience. Students can choose to further their education by enrolling in an additional Pathway Experience Course in 12th grade.



Academy of Advanced Technology

proudly supported by **ELEVATE** **Scull** **RAMA** **MONUMENT HEALTH**

Business, Entrepreneurship, & Hospitality Pathway



PATHWAY DESCRIPTION: The Business, Entrepreneurship, and Hospitality Pathway will allow students to explore business ownership, entrepreneurial endeavors, hotel & restaurant management, and gain the skills to confidently pursue their personal and professional career goals.

RECOMMENDED PROGRAMS OF STUDY

	Explore 9th Grade	Engage 10th Grade	Experience	
			11th Grade	12th Grade
Academy & Pathway Courses (2.5 credits)	.5 credit	1 credit		1 credit minimum
	Freshman Seminar	Introduction to Business, Entrepreneurship & Hospitality ² & Introduction to Business, Entrepreneurship & Hospitality 2 ²	Advanced Computer Applications ³ Advanced Photography AP Calculus AP Statistics Beginning Photography Business Economics Business Law Capstone Experience (5 options) Culinary Arts 1 ⁴ Graphic Design ¹ 1 & 2 Marketing Principles Media Production Personal Finance Pre-Calculus Probability & Statistics Transition to College Math	
GRADtime (1 credit)	.25 credit	.25 credit	.25 credit	.25 credit
	GRADtime 9	GRADtime 10	GRADtime 11	GRADtime 12
Experiential Learning	Freshman Expo	Guest Speakers Industry Tours	Grade 11 Guest Speakers Industry Tours Capstone Experiences Postsecondary Exploration	Grade 12 Capstone Experiences Postsecondary Exploration

**Discuss potential dual credit opportunities with your counselor.*

CAREER AND TECHNICAL STUDENT ORGANIZATION: Future Business Leaders of America (FBLA)

COLLEGE & CAREER PATHS

Industry Certifications	Associate Degree	Bachelor's Degree	Advanced Degree
¹ Adobe  ² ESB ³ Microsoft Office ⁴ ServSafe	Bookkeeping & Auditing Clerk Office Clerk Customer Service Representative Travel Agent Chef	Compliance Manager First-Line Supervisors of Office & Administrative Support Worker Regulatory Affairs Manager Human Resource Specialist Training & Development Manager	Investment Fund Manager Economist
			
			

Find out more about all our pathway programs at: rcas.org/rcasacademies

Please Note: Courses may only be counted toward one credit type, for example: Beginning Photography can be counted as a Fine Arts credit or an Academy credit, not both.

BUSINESS, ENTREPRENEURSHIP, & HOSPITALITY COURSES

ACADEMY LEVEL: PATHWAY ENGAGE COURSES

Introduction to Business, Entrepreneurship, & Hospitality 1 & 2

Credits: 1	Approved CTE Course
Prerequisites:	Grade: 10,11,12

Are you interested in playing a vital role in a business? Knowledge is power and this course is perfect for introducing and viewing the world of business in a whole new way. Why not learn the basic operations to guide your passion and succeed in your future endeavors? This gateway course provides an overview of skills in business, hospitality, marketing, culinary arts, finance, and more.

ACADEMY LEVEL: PATHWAY EXPERIENCE COURSES

Advanced Computer Applications

Credits: .5	Approved CTE Course
Prerequisites: Computer Applications is essential for success	Grade: 10,11,12

Demonstrate that you have the skills to earn Microsoft Office Specialist certifications (MOS) by exploring the advanced features/techniques of Word, Excel, Access, and PowerPoint. Build a brighter future by achieving industry-recognized certifications, learning computing skills companies are looking for, boosting your workforce resume, differentiating yourself from other job applicants, heightening your earning potential (\$), and preparing yourself for a successful future.

Beginning Photography

Credits: 1	Approved CTE Course
Prerequisites:	Grade: 10,11,12

Create uniquely artistic images while developing your visual communication and composition skills. Use the parts and functions of 35 mm cameras and black and white film processing and printing experience to understand aperture, shutter speed, exposure, and light metering. Capture photographs that demonstrate strong balance, composition, and value range while showcasing your creative eye. *This course may fulfill one credit of Fine Arts for graduation.*

Advanced Photography

Credits: 1	Approved CTE Course
Prerequisites: Beginning Photography is essential for success	Grade: 11,12

After successfully completing Beginning Photography, expand your photography skills with advanced camera operation, digital editing, and printing techniques. Experience digital publishing and photojournalism in conjunction with the school yearbook and newspaper. Develop your creative and critical thought with a mature artistic direction and personal photographic style. *This course may fulfill one credit of Fine Arts for graduation.*

Business Economics

Credits: .5	Approved CTE Course
Prerequisites: Geometry is essential for success	Grade: 11,12

This course provides an in-depth study of fundamental concepts, free enterprise trading practices, and the various players in the economic system. Topics include the production, marketing, and distribution of goods and services, as well as the roles of financial institutions and the government within the free enterprise system. Students will explore various careers within the free market system.

Business Law

Credits: .5	Approved CTE Course
Prerequisites:	Grade: 11,12

Do you know your rights? This course provides foundational information about the U.S. legal system, dispute resolution, and their impact on business. Business Law focuses on an understanding of the judicial system at the local, state, and national level. Topics include a general understanding of constitutional law, torts, ethics, rights and responsibilities as citizens, utilization of financial transactions, employment, and agency relationships.

BUSINESS, ENTREPRENEURSHIP, & HOSPITALITY COURSES CONTINUED

Culinary Arts

Credits: .5	Approved CTE Course
Prerequisites:	Grade: 10,11,12

This course will advance your knowledge of food preparation and presentation. Safety and sanitation, food handling, knife skills, professional techniques, teamwork, hospitality, and customer service will be emphasized as you learn about, plan, prepare, and eat a wide variety of foods and meals. This course will enhance skills and knowledge of the foodservice industry and multiple careers available to pursue.

Graphic Design 1

Credits: .5	Approved CTE Course
Prerequisites:	Grade: 10,11,12

Become skilled in powerful and complex software such as Adobe Photoshop, Illustrator, and Animate that will bring your creative work to the professional level. Spend time exploring legal and ethical issues, career opportunities, fundamentals graphics (raster vs vector graphics), various Adobe software tools, drawing tablets, and basic animations. Build skills that cross a variety of careers and interests!

Graphic Design 2

Credits: .5	Approved CTE Course
Prerequisites: Graphic Design 1 is essential for success	Grade: 11,12

Do you have a design flare but don't know what to do with it? Do you constantly imagine how things could be redesigned more effectively? Take what you learned in Graphic Design 1 and "step it up a notch"! Explore advanced design methods, page layouts, typography, color theory, and design principles and elements. Create amazing projects, learn about various forms of published media, and explore legal and ethical issues along with career opportunities in the world of design.

Marketing Principles

Credits: .5	Approved CTE Course
Prerequisites:	Grade: 11,12

Marketing Principles introduces the student to the basic concepts of modern marketing. Course content includes general marketing principles of product planning and production, distribution, pricing and promotions.

Media Production

Credits: .5	Approved CTE Course
Prerequisites:	Grade: 11,12

Have fun while exploring equipment operations, employability skills, software applications, careers, social networking, and media law. You will not only learn the creative process of film-making, but inevitably learn reading/writing (scripting/storyboards), drama (directing, casting, and acting), marketing (media production and distribution), ambiance (lighting), and technology (visual effects and editing).

Personal Finance

Credits: .5	Approved CTE Course
Prerequisites:	Grade: 11,12

Managing your personal finances can be an interesting and challenging task. This hands-on and engaging money-management course focuses on budgeting and financial management such as managing bank accounts, paying taxes, and retirement. Plus you learn the ins and outs of buying insurance, cars, and housing as well as managing your credit and identity.

BUSINESS, ENTREPRENEURSHIP, & HOSPITALITY COURSES CONTINUED

Transition to College Mathematics

Credits: .5	
Prerequisites: Algebra 2 is essential for success	Grade: 11,12

This course will aid in the retention of math skills for later college or career level work. Topics covered in this course are designed to strengthen and review algebraic reasoning. Students will study problem solving strategies, set theory, real number systems, and linear and quadratic functions.

Pre-Calculus with Trigonometry

Credits: 1	
Prerequisites: Algebra 2 is essential for success	Grade: 11,12

Pre-Calculus with Trigonometry prepares a college-bound student for their first course in calculus. The course includes the study of advanced functions, including polynomial, exponential, logarithmic, trigonometric, and circular functions. Students will study the algebraic relationships between these functions, their graphs, and transformations of these functions. Students will also be introduced to the concepts of limits.

AP Calculus AB

Credits: 1	
Prerequisites: Pre-Calculus with Trigonometry is essential for success	Grade: 11,12

This is an introductory study of differential and integral calculus including applications in the physical, natural, and social sciences. Topics studied include functions and their graphs, limits and continuity, the derivative and applications, and the integral and applications. Students may elect to take the AP Calculus exam at the conclusion of the course at their expense.

Probability & Statistics

Credits: .5	
Prerequisites: Algebra 2 is essential for success	Grade: 11,12

Students will study the three major topics in statistics: descriptive statistics (the basic tools of the statistician: mean, standard deviation, etc...), inferential statistics (tools that ensure valid experimental design and results), and probability (the mathematics of chance, randomness, and games of chance). They will also learn to critically evaluate statistics in their daily lives in order to become more informed consumers and citizens.

AP Statistics

Credits: 1	
Prerequisites: Algebra 2 is essential for success	Grade: 11,12

AP Statistics is equivalent to an introductory, non-calculus-based college course in Statistics. Students analyze data using graphical and numerical techniques, plan and implement data collection, use probability to analyze distributions of data, determine appropriate models of statistical inference, and make decisions based on confidence intervals and tests of significance. Students may take the AP Statistics exam at the course conclusion at their expense.

CAPSTONE COURSES

Check out the five Capstone Course options available to 11th - 12th graders on page 75.



Academy of Advanced Technology

proudly supported by **ELEVATE** **Scull** **RAMA** **MONUMENT
HEALTH**

Construction Pathway



PATHWAY DESCRIPTION: The Construction Pathway will expose students to a variety of construction industries, careers, trades, and skills. Students will experience hands-on learning using high quality technology and equipment.

RECOMMENDED PROGRAMS OF STUDY

	<i>Explore</i> 9th Grade	<i>Engage</i> 10th Grade	<i>Experience</i>	
			11th Grade	12th Grade
Academy & Pathway Courses (2.5 credits)	.5 credit	1 credit	1 credit minimum	
	Freshman Seminar	Introduction to Construction & Technical Trades & Introduction to Construction & Technical Trades 2	Advanced Stagecraft (hosted at CHS) AP Calculus CADD Capstone Experience (5 options) Pre-Calculus Stagecraft	
			<i>*Discuss potential dual credit opportunities with your counselor.</i>	
GRADtime (1 credit)	.25 credit	.25 credit	.25 credit	.25 credit
	GRADtime 9	GRADtime 10	GRADtime 11	GRADtime 12
Experiential Learning	Freshman Expo	Guest Speakers Industry Tours	Grade 11 Guest Speakers Industry Tours Capstone Experiences Postsecondary Exploration	Grade 12 Capstone Experiences Postsecondary Exploration

COLLEGE & CAREER PATHS

Industry Certifications	Associate Degree	Bachelor's Degree	Advanced Degree
Construction Laborer 	Commercial Driver Derrick Operator, Oil & Gas Tile & Stone Setter Automotive Service Technician & Mechanic	Construction Manager	Architect

Find out more about all our pathway programs at: rcas.org/rcasacademies

*Please Note: Courses may only be counted toward one credit type, for example:
AP Calculus can be counted as a Math credit or an Academy credit, not both.*

CONSTRUCTION COURSES

ACADEMY LEVEL: PATHWAY ENGAGE COURSES

Introduction to Construction & Technical Trades 1 & 2

Credits: 1		Approved CTE Course
Prerequisites:		Grade: 10,11,12

Do you enjoy planning, designing, and building? Perhaps you are interested in working with your hands and using basic tools and equipment? In this course, you will have the opportunity to learn how to read and develop blueprints for construction projects, explore technical trades such as CADD, framing, survey and cost estimation, electrical planning, plumbing and HVAC, finish work, basic welding, and help design and build a simple structure.

ACADEMY LEVEL: PATHWAY EXPERIENCE COURSES

Stagecraft (Theatre Technology & Design)

Credits: .5		Hosted at Central - Grade: 10,11,12
Prerequisites: Drama 1 is essential for success		Hosted at Stevens - Grade: 9-12

This class emphasizes basic backstage training for production. Basic stagecraft, safety, publicity, drafting, design, stage makeup, costuming properties, stage lighting, sound, and painting are all topics covered in this class.

Advanced Stagecraft (Advanced Theatre Technology & Design) (Hosted at Central)

Credits: .5		
Prerequisites: Stagecraft is essential for success		Grade: 11,12

Advanced, hands-on backstage training for production. Safety, fly system training management and maintenance, pin rail operation, lighting design and light board operation, sound design and sound board operation, stage management, house management, and utilization of special effects. Multiple practicum applications.

Computer-Aided Drafting & Design (CADD)

Credits: 1		Approved CTE Course
Prerequisites: Geometry is essential for success		Grade: 11,12

Do you enjoy technical design and computers? Are you interested in developing real-world plans and ideas? In this course, students will develop the fundamental skills necessary to create 2D and 3D drawings and models using CADD software. Students will create a variety of detailed plans and parts that are related to real world projects. Integration of modern industry equipment will be used to build projects based on CADD models.

Pre-Calculus with Trigonometry

Credits: 1		
Prerequisites: Algebra 2 is essential for success		Grade: 11,12

Pre-Calculus with Trigonometry prepares a college-bound student for their first course in calculus. The course includes the study of advanced functions, including polynomial, exponential, logarithmic, trigonometric, and circular functions. Students will study the algebraic relationships between these functions, their graphs, and transformations of these functions. Students will also be introduced to the concepts of limits.

CONSTRUCTION COURSES CONTINUED

AP Calculus AB

Credits: 1

Prerequisites: Pre-Calculus with Trigonometry is essential for success

Grade: 11,12

This is an introductory study of differential and integral calculus including applications in the physical, natural, and social sciences. Topics studied include functions and their graphs, limits and continuity, the derivative and applications, and the integral and applications. Students may elect to take the AP Calculus exam at the conclusion of the course at their expense.

CAPSTONE COURSES

Check out the five Capstone Course options available to 11th - 12th graders on page 75.



Academy of Arts, Humanities, & Human Services

proudly supported by **ELEVATE** **Scull RAMA** **MONUMENT HEALTH**

Human Services Pathway



PATHWAY DESCRIPTION: The Human Services Pathway will build the foundational skills and knowledge for aspiring educators, expose students to knowledge and experiences in understanding human development and behavior, and allow students to explore career opportunities in the areas of public safety, law, military, and government & public policy.

RECOMMENDED PROGRAMS OF STUDY

	Explore 9th Grade	Engage 10th Grade	Experience	
			11th Grade	12th Grade
	.5 credit	1 credit	1 credit minimum	
Academy & Pathway Courses (2.5 credits)	Freshman Seminar	Introduction to Human Services & Education ¹ & Introduction to Human Services & Education 2 or ROTC 1 ¹ or ROTC 2 ¹ (hosted at CHS)	AP Psychology (hosted at SHS) AP Statistics AP US Government Business Law Capstone Experience (5 options) Debate Education as a Profession German 2-4 Human Development 1 Human Development 2 Lakota 2 (hosted at CHS) Native American Heritage (hosted at SHS) Probability & Statistics Psychology ROTC 2-4 (hosted at CHS) Spanish 2-4 Transition to College Math	
			*Discuss potential dual credit opportunities with your counselor.	
GRADtime (1 credit)	.25 credit	.25 credit	.25 credit	.25 credit
	GRADtime 9	GRADtime 10	GRADtime 11	GRADtime 12
Experiential Learning	Freshman Expo	Guest Speakers Industry Tours	Grade 11 Guest Speakers Industry Tours Capstone Experiences Postsecondary Exploration	Grade 12 Capstone Experiences Postsecondary Exploration

CAREER AND TECHNICAL STUDENT ORGANIZATION: Educators Rising

COLLEGE & CAREER PATHS

Industry Certifications	Associate Degree	Bachelor's Degree	Advanced Degree
¹ CPR ¹ First Aid	Supervisor of Personal Care Worker Spa Manager • Childcare Worker Security Guard • Funeral Attendant	Credit Counselor • Teacher Rehabilitation Counselor Paralegal & Legal Assistant	Clinical & Counseling Psychologist Postsecondary Professor Lawyer • Counselor Marriage & Family Therapist

Find out more about all our pathway programs at: rcas.org/rcasacademies

Please Note: Courses may only be counted toward one credit type, for example: Psychology can be counted as a Social Studies credit or an Academy credit, not both.

HUMAN SERVICES COURSES

ACADEMY LEVEL: PATHWAY ENGAGE COURSES

Introduction to Human Services & Education 1 & 2

Credits: 1	Approved CTE Course
Prerequisites:	Grade: 10,11,12

Does working collaboratively with a team to assist others appeal to you? What about a career helping people of all ages and families? This course will focus on human development and behavior, to give you a better idea of what it would be like to be a teacher, coach, counselor, social worker, lawyer, member of the military, police officer, and many other community focused professions.

Junior ROTC (Reserve Officer Training Corp) Program 1 (Hosted at Central)

Credits: 1	Approved CTE Course
Prerequisites:	Grade: 9-12

This course focuses on the development of better citizens by building skills in leadership, citizenship, personal growth, team building, service learning, and fitness in a structured, collaborative, and interactive environment. JROTC 1 introduces the student to the program and provides foundational skills to move forward in subsequent classes and accept increased responsibility. Students will have the option to expand upon these skills by participating in JROTC co-curriculars such as competitions, outdoor adventure activities, and service events throughout the community.

Junior ROTC (Reserve Officer Training Corp) Program 2 (Hosted at Central)

Credits: 1	Approved CTE Course
Prerequisites: Junior ROTC 1 is essential for success	Grade: 10,11,12

This course builds upon the foundations of JROTC 1 to develop students as direct-level leaders. Students will engage in classroom and practical experiences that enhance their skills in leadership, health and fitness, first aid, decision making, and citizenship and government. Students who successfully complete the CPR portion of first aid will earn the American Heart Associate CPR/AED certification. Students will have the option to expand upon these skills by participating in JROTC co-curriculars such as competitions, outdoor adventure activities, and service events throughout the community.

ACADEMY LEVEL: PATHWAY ENGAGE COURSES

Psychology

Credits: .5	
Prerequisites:	Grade: 10,11,12

Psychology is the scientific study of behavior and mental processes. The course will emphasize the mind and its development, principles of learning, memory, sensation and perception, personality theories, emotion and stress, states of consciousness, motivation, and abnormal behavior.

AP Psychology (Hosted at Stevens)

Credits: 1	
Prerequisites:	Grade: 10,11,12

This course will guide students through an in-depth look at the relationship of biological and social factors on human development. Students will be required to conduct and/or review research, analyze data, and develop inferences analyzing real-life situations. Preparation for the College Board National Exam is emphasized. Interest in psychology is preferred; prior enrollment in psychology classes is a non-factor.

HUMAN SERVICES COURSES CONTINUED

Debate

Credits: .5	
Prerequisites:	Grade: 9-12

This course will ensure that students develop skills critical to college success. It will teach students to research with purpose and be able to understand and analyze information. Students will improve their speaking skills and will gain improvisational, argumentative, and rhetorical techniques. Students will work both independently and collaboratively to create unique speaking projects and debate national topics.

AP U.S. Government & Politics

Credits: 1	
Prerequisites:	Grade: 11,12

This course is an in-depth study of the American political system. The course focuses on the foundations of American democracy, interactions between branches of government, civil liberties, and civil rights, American political beliefs and ideologies, and political participation. Students will be required to do substantial reading and writing; active participation in classroom discussion is expected.

Business Law

Credits: .5		Approved CTE Course
Prerequisites:	Grade: 11,12	

Do you know your rights? This course provides foundational information about the U.S. legal system, dispute resolution, and their impact on business. Business Law focuses on an understanding of the judicial system at the local, state, and national level. Topics include a general understanding of constitutional law, torts, ethics, rights and responsibilities as citizens, utilization of financial transactions, employment, and agency relationships.

Education as a Profession

Credits: .5		Approved CTE Course
Prerequisites: Human Development coursework is essential for success	Grade: 11,12	

Do you enjoy helping children and teaching others? You will learn all about teaching as a profession while building key understandings of learning styles, instructional techniques, and building relationships with students and colleagues. Students will also learn how to plan and evaluate lessons for a classroom.

Human Development 1: Prenatal to Toddlers

Credits: .5		Approved CTE Course
Prerequisites:	Grade: 11,12	

This course will cover the physical, social, emotional, intellectual, and moral development of a newborn child through age 3. Other major topics include prenatal development, preparing for birth, and the baby's arrival. Students will be given the opportunity to wear the pregnancy profile vest during class and take home an infant simulator for a weekend to experience caring for a baby. Careers related to families and young children are emphasized and explored. *Successful completion of both Human Development courses will fulfill credits toward obtaining the National CDA credential.*

Human Development 2: Preschool to School-age

Credits: .5		Approved CTE Course
Prerequisites:	Grade: 11,12	

This course is an introduction to the work of caring for and educating young children. Students will be able to create developmentally appropriate activities and effectively interact with children through their increased understanding of the developmental areas in which children grow. Students will have the opportunity to take part in a job shadow experience at a local preschool, Head Start, or elementary. *Successful completion of both Human Development courses will fulfill credits toward obtaining the National CDA credential.*

HUMAN SERVICES COURSES CONTINUED

Probability & Statistics

Credits: .5	
Prerequisites: Algebra 2 is essential for success	Grade: 11,12

Students will study the three major topics in statistics: descriptive statistics (the basic tools of the statistician: mean, standard deviation, etc...), inferential statistics (tools that ensure valid experimental design and results), and probability (the mathematics of chance, randomness, and games of chance). They will also learn to critically evaluate statistics in their daily lives in order to become more informed consumers and citizens.

AP Statistics

Credits: 1	
Prerequisites: Algebra 2 is essential for success	Grade: 11,12

AP Statistics is equivalent to an introductory, non-calculus-based college course in Statistics. Students analyze data using graphical and numerical techniques, plan and implement data collection, use probability to analyze distributions of data, determine appropriate models of statistical inference, and make decisions based on confidence intervals and tests of significance. Students may take the AP Statistics exam at the course conclusion at their expense.

Transition to College Mathematics

Credits: .5	
Prerequisites: Algebra 2 is essential for success	Grade: 11,12

This course will aid in the retention of math skills for later college or career level work. Topics covered in this course are designed to strengthen and review algebraic reasoning. Students will study problem solving strategies, set theory, real number systems, and linear and quadratic functions.

German 2, Intermediate

Credits: 1	
Prerequisites: German 1 is essential for success	Grade: 10,11,12

Your passport to global opportunities awaits! Be marketable with two or more years of the same language to compete for jobs, colleges, and scholarships! Expand your knowledge of language and culture with focus on enhancing abilities in speaking, listening, reading, and writing on a variety of new topics and past experiences. You will continue to discover products and practices to help you understand global cultural perspectives.

German 3, Advanced

Credits: 1	
Prerequisites: German 2 is essential for success	Grade: 11,12

Language and culture come to life! Students who apply themselves leave prepared to support communication for their pathway in the workforce or to test out of a university course. You will cultivate your self-expression via conversation and written communication as well as higher interpretive reasoning in the past, present, and future. You will make cultural comparisons in products and practices to understand perspectives around the world.

German 4, Accelerated (Hosted at Central)

Credits: 1	
Prerequisites: German 3 is essential for success	Grade: 11,12

Language creates your reality! Students can leave prepared to foster communication in the workforce or test out of university courses. You will master the skills to express yourself in daily discourse. You participate in spontaneous conversations while interpreting meaningful information about yourself, others, and the world around you! You will make cultural comparisons in products and practices to understand perspectives around the world.

HUMAN SERVICES COURSES CONTINUED

Native American Heritage

Credits: .5	
Prerequisites:	Grade: 9-12

This course introduces Lakota culture and its language. Students will also further explore other native cultures like; Pueblo, Northwest coast, Plateau and many more rich native cultures. Our emphasis will be the Lakota culture. Students will be able to identify products and practices to help you understand native cultural perspectives. Lakota will be presented through cultural experiences via music, videos, old recordings, and storytelling.

Lakota Language 2, Intermediate (Hosted at Central)

Credits: 1	
Prerequisites: Lakota Language 1 is essential for success	Grade: 10,11,12

Completion of Lakota 1 is essential for your journey in learning Lakota. We will be practicing conversational Lakota by listening, reading, singing, and writing. You will be able to identify products and practices to help you understand Lakota cultural perspectives. Lakota culture will be experienced via music, videos, and storytelling. Now you have joined the revival of the Lakota community.

Spanish 2, Intermediate

Credits: 1	
Prerequisites: Spanish 1 is essential for success	Grade: 10,11,12

Your passport to global opportunities awaits! Be marketable by completing two or more years of Spanish to compete for jobs, colleges, and scholarships. You will expand on your knowledge of the language and culture. You will enhance your speaking, listening, reading, and writing abilities on a variety of new topics with the addition of past experiences. You will be able to continue to discover products and practices to help you understand global cultural perspectives.

Spanish 3, Advanced

Credits: 1	
Prerequisites: Spanish 2 is essential for success	Grade: 11,12

Language and culture come to life! By applying yourself, you will leave prepared to support communication in the workforce or to test out of a college or university course. You will cultivate your self-expression via conversational and written communication as well as higher interpretive reasoning in the past, present, and future. You will make cultural comparisons in products and practices to understand perspectives around the world.

Spanish 4, Accelerated

Credits: 1	
Prerequisites: Spanish 3 is essential for success	Grade: 11,12

Language creates your reality! You will be able to communicate in the workforce and to test out of a college or university course. Your fluency will increase dramatically by applying and expanding the skills required to express yourself in daily discourse. You will participate in spontaneous conversations while interpreting information about yourself, others, and the world around you!

HUMAN SERVICES COURSES CONTINUED

Junior ROTC (Reserve Officer Training Corp) Program 2 (Hosted at Central)

Credits: 1	Academy Level: Academy Engage Course	Approved CTE Course
Prerequisites: Junior ROTC 1 is essential for success		Grade: 10,11,12

This course builds upon the foundations of JROTC 1 to develop students as direct-level leaders. Students will engage in classroom and practical experiences that enhance their skills in leadership, health and fitness, first aid, decision making, and citizenship and government. Students who successfully complete the CPR portion of first aid will earn the American Heart Associate CPR/AED certification. Students will have the option to expand upon these skills by participating in JROTC co-curriculars such as competitions, outdoor adventure activities, and service events throughout the community.

Junior ROTC (Reserve Officer Training Corp) Program 3 (Hosted at Central)

Credits: 1	Academy Level: Pathway Experience Course	Approved CTE Course
Prerequisites: Junior ROTC 2 is essential for success		Grade: 11,12

This course assigns students as organizational leaders where they will plan, prepare, and execute operations for the Cadet Battalion, to include community service projects, a military ball, fundraising, the battalion service learning project, and other events as selected by the students. In addition to enhancing their skills as supervising leaders, they will also prepare for life after high school. This includes career exploration, post-secondary education options, resume' writing, interviewing, and managing personal finances. Students will have the option to expand upon these skills by participating in JROTC co-curriculars such as competitions, outdoor adventure activities, and service events throughout the community.

Junior ROTC (Reserve Officer Training Corp) Program 4 (Hosted at Central)

Credits: 1	Academy Level: Specialized Pathway Course	Approved CTE Course
Prerequisites: Junior ROTC 3 is essential for success		Grade: 12

This course assigns students as battalion-level leaders where they will manage the unit's activities, guide the battalion staff, and teach and mentor junior cadets. These students will refine their ability to lead classroom instructional activities while leveraging their previously acquired skills, knowledge, and abilities to make lasting improvements on the battalion. They will also make final preparations for life after high school by conducting short and long-range personal and professional planning. Students will have the option to expand upon these skills by participating in JROTC co-curriculars such as competitions, outdoor adventure activities, and service events throughout the community.

CAPSTONE COURSES

Check out the five Capstone Course options available to 11th - 12th graders on page 75.



Academy of Arts, Humanities, & Human Services

proudly supported by **ELEVATE** **Scull RAMA** **MONUMENT HEALTH**

Performing Arts Pathway



PATHWAY DESCRIPTION: The Performing Arts Pathway will provide students with the opportunity to develop ideas and skills through a creative process. The Performing Arts Pathway will engage individuals with the knowledge, skills, confidence, and experience to pursue a lifetime of participation, enjoyment and appreciation of Performing Arts.

RECOMMENDED PROGRAMS OF STUDY

	<i>Explore</i> 9th Grade	<i>Engage</i> 10th Grade	<i>Experience</i>	
			11th Grade	12th Grade
	.5 credit	1 credit	1 credit minimum	
Academy & Pathway Courses (2.5 credits)	Freshman Seminar	10 th Grade Band Courses 10 th Grade Choir Courses 10 th Grade Orchestra Courses Debate Drama 1-3 Stagecraft	11 th -12 th Grade Band Courses 11 th -12 th Grade Choir Courses 11 th -12 th Grade Orchestra Courses Advanced Stagecraft (<i>hosted at CHS</i>) Capstone Experience (5 options) Drama 4 Media Production	
			*Discuss potential dual credit opportunities with your counselor.	
GRADtime (1 credit)	.25 credit	.25 credit	.25 credit	.25 credit
	GRADtime 9	GRADtime 10	GRADtime 11	GRADtime 12
Experiential Learning	Freshman Expo	Guest Speakers Industry Tours	Grade 11 Guest Speakers Industry Tours Capstone Experiences Postsecondary Exploration	Grade 12 Capstone Experiences Postsecondary Exploration

COLLEGE & CAREER PATHS

Industry Certifications	Associate Degree	Bachelor's Degree	Advanced Degree
	Dancer Actor	Agent/Business Manager Choreographer Media Programming Director Costume Attendant	Set & Exhibit Director

Find out more about all our pathway programs at: rcas.org/racasacademies

*Please Note: Courses may only be counted toward one credit type, for example:
Band can be counted as a Fine Arts credit or an Academy credit, not both.*

PERFORMING ARTS COURSES

ACADEMY LEVEL: PATHWAY ENGAGE COURSES

Debate

Credits: .5	
Prerequisites:	Grade: 9-12

This course will ensure that students develop skills critical to college success. It will teach students to research with purpose and be able to understand and analyze information. Students will improve their speaking skills and will gain improvisational, argumentative, and rhetorical techniques. Students will work both independently and collaboratively to create unique speaking projects and debate national topics.

Drama 1 (Introduction to Theatre)

Credits: .5	
Prerequisites:	Grade: 9-12

An introduction to theatre arts and performance through the topics of storytelling, the origins of drama, pantomime, vocal production, improvisation, basic stage movement, play reading, performing, and observation. Students will engage in theatre related exercises and activities, developing characters, and creative problem-solving skills using dramatic literature. Theatre etiquette and art appreciation are also covered.

Drama 2 (Acting & Theatre History)

Credits: .5	
Prerequisites: Drama 1 is essential for success	Grade: 10,11,12

Drama 2 consists of further study of the topics covered in Drama 1, with advanced vocal production and movement, memorization skills, scene work, audition techniques, advanced script study, theatre history, and the development of play production. Students will further engage in observation, interpretation, and analysis or artistic work.

Drama 3 (Advanced Acting & Theatre History)

Credits: .5	
Prerequisites: Drama 1 & 2 are essential for success	Grade: 10,11,12

This course emphasizes the societal, cultural, historical, and personal context of artistic work through acting styles and theories throughout the ages. Further exploration in character development and analysis, and an introduction to directing and original script writing will be reflected through the study and performance of comedic and dramatic literature.

Stagecraft (Theatre Technology & Design)

Credits: .5	Hosted at Central - Grade: 10,11,12
Prerequisites: Drama 1 is essential for success	Hosted at Stevens - Grade: 9-12

This class emphasizes basic backstage training for production. Basic stagecraft, safety, publicity, drafting, design, stage makeup, costuming properties, stage lighting, sound, and painting are all topics covered in this class.

ACADEMY LEVEL: PATHWAY ENGAGE/EXPERIENCE COURSES

Concert or Symphonic Band 2-3-4

Credits: 1	
Prerequisites: Band 1 is essential for success	Grade: 10,11,12

Students will continue to rehearse, create, and perform music. They will further their ability to make outside connections to the music and explore how to respond to the art form. They will continue to develop mastery on their instruments as solo performers as well as in small and large ensembles. Through band, students will gain skills in leadership, collaboration, creative thinking, and problem solving.

PERFORMING ARTS COURSES CONTINUED

Jazz Band 2-3-4

Credits: 1	
Prerequisites: Enrollment in Concert or Symphonic Band 2-3-4 is essential for success	Grade: 10,11,12

Students will continue to develop their understanding of jazz music. They will perform music of various styles, further explore improvisation solos, learn about great jazz musicians, and the historical context of jazz music. Students will begin to explore arranging and composing through jazz analysis, identifying modes, scales, harmony, and form. Students will fine tune their leadership skills, critical listening, and performance skills independently and collaboratively.

Bass Choir 1-2-3-4

Credits: 1	
Prerequisites: Previous music ensemble experience is essential for success	Grade: 9-12

This course is for tenor, bass, and/or changing voices. Students will create and perform music from different genres, cultures, and languages. Music reading skills will be developed and connections to music history will be strengthened. Through choir, students will gain skills in leadership, collaboration, creative thinking, and problem solving. *This course may be taken more than once for credit.*

Treble Choir 2-3-4

Credits: 1	
Prerequisites: Chorus 1 or equivalent is essential for success	Grade: 10,11,12

This course is for voices in the soprano and alto range. Students will continue to create and perform music from different genres, cultures, and languages. Music reading skills will continue to be developed and connections to music history will be strengthened. Through choir, students will gain skills in leadership, collaboration, creative thinking, and problem solving. *This course may be taken more than once for credit.*

Reflections 2-3-4 (Hosted at Central) & Poetry in Motion 2-3-4 (Hosted at Stevens)

Credits: 1	
Prerequisites: Audition required; Enrollment in a concurrent choir ensemble is essential for success	Grade: 10,11,12

Students in this select ensemble perform at concerts, contest, tours, school events, and within the community. Students will begin to develop skills necessary to perform pop, jazz, and show choir music. Students will fine tune their leadership skills, critical listening, and performance skills independently and collaboratively.

Singers 2-3-4

Credits: 1	
Prerequisites: Audition required; Enrollment in a concurrent choir ensemble is essential for success	Grade: 10,11,12

This course is for mixed voices. Students in this select ensemble create and perform music from all time periods in concerts, contest, tours, school events, and within the community. Students will develop skills necessary to perform pop, jazz, and show choir music. Students will fine tune their leadership skills, critical listening and performance skills independently and collaboratively. *This course may be taken more than once for credit.*

Concert Choir 2-3-4

Credits: 1	
Prerequisites: Audition required	Grade: 10,11,12

This course is for mixed voices. Students will continue to create and perform music of different genres, cultures and languages. Music reading skills will continue to be developed; connections to music history will be strengthened. Students will fine tune their leadership skills and will develop skills to become musically independent and capable of success in a post high school choir. *This course may be taken more than once for credit.*

PERFORMING ARTS COURSES CONTINUED

Chamber Orchestra 1-2-3-4

Credits: 1		
Prerequisites: Audition required; Enrollment in Orchestra 1-2-3-4 is essential for success		Grade: 9-12

Chamber Orchestra gives the student an opportunity to study advanced small group ensemble music and orchestral literature. Students will continue the advanced development of instrumental technique, music reading and comprehension skills, independent musicianship, style, critical thinking skills, a deeper understanding of small group ensemble music, and orchestral literature. Students will perform both in small group ensemble projects and as a large group.

Orchestra 2-3-4

Credits: 1		
Prerequisites: Orchestra 1 is essential for success		Grade: 10,11,12

Educational emphasis in Orchestra is placed on the advancement of instrumental technique, further development of music reading and comprehension skills, independent musicianship, style, and a deeper understanding of ensemble music and orchestral literature. Students will perform both in small group ensemble projects and as a large group. Extra-curricular: All-State Orchestra, All-State Band, Region 8 Solo & Ensemble Performance, and large ensemble festivals and clinics.

ACADEMY LEVEL: PATHWAY EXPERIENCE COURSES

Drama 4 (Advanced Theatre Production - ATP)

Credits: 1		
Prerequisites: Audition required; Drama 1 & 2 are essential for success		Grade: 11,12

Drama 4 is a year-long course devoted to the advanced study of artistic works. A professional portfolio of audition material, and resumes and design work will be developed as students engage in the directing, management, design, and devising aspects of a theatrical production. Students will also participate in community outreach and special projects related to theatre arts.

Advanced Stagecraft (Advanced Theatre Technology & Design) (Hosted at Central)

Credits: .5		
Prerequisites: Stagecraft is essential for success		Grade: 11,12

Advanced, hands-on backstage training for production. Safety, fly system training management and maintenance, pin rail operation, lighting design and light board operation, sound design and sound board operation, stage management, house management, and utilization of special effects. Multiple practicum applications.

Media Production

Credits: .5		Approved CTE Course
Prerequisites:		Grade: 11,12

Have fun while exploring equipment operations, employability skills, software applications, careers, social networking, and media law. You will not only learn the creative process of film-making, but inevitably learn reading/writing (scripting/storyboards), drama (directing, casting, and acting), marketing (media production and distribution), ambiance (lighting), and technology (visual effects and editing).

CAPSTONE COURSES

Check out the five Capstone Course options available to 11th - 12th graders on page 75.



Academy of Arts, Humanities, & Human Services

proudly supported by **ELEVATE** **Scull RAMA** **MONUMENT HEALTH**

Visual Arts Pathway



PATHWAY DESCRIPTION: The Visual Arts Pathway will allow students to explore topics in the areas of graphic design, web print, animation, media, and marketing, with an opportunity to discover, develop, and actualize their unique potential. The Visual Arts Pathway will assist students in providing meaningful learning opportunities and the development of critical and creative thinking with relevant hands-on learning.

RECOMMENDED PROGRAMS OF STUDY

	<i>Explore</i> 9th Grade	<i>Engage</i> 10th Grade	<i>Experience</i>	
			11th Grade	12th Grade
	.5 credit	1 credit	1 credit minimum	
Academy & Pathway Courses (2.5 credits)	Freshman Seminar	Introduction to Computer Arts & <u>Choose 1 of the following:</u> Advanced Clay Basic Drawing 1 & 2 Beginning Photography Clay Construction & Design Crafts Graphic Design 1 ¹ Journalistic Design (hosted at SHS) Native American Arts Web Development	Advanced Art Advanced Photography Capstone Experience (5 options) Graphic Design 2 ¹ Media Production Painting (hosted at CHS)	
GRADtime (1 credit)	.25 credit	.25 credit	.25 credit	.25 credit
	GRADtime 9	GRADtime 10	GRADtime 11	GRADtime 12
Experiential Learning	Freshman Expo	Guest Speakers Industry Tours	Grade 11 Guest Speakers Industry Tours Capstone Experiences Postsecondary Exploration	Grade 12 Capstone Experiences Postsecondary Exploration

COLLEGE & CAREER PATHS

Industry Certifications	Associate Degree	Bachelor's Degree	Advanced Degree
¹ Adobe 	Craft Artist Fashion Designer	Art Director Graphic Designer Special Effects Artist	Set & Exhibit Designer Curator Art Therapist

Find out more about all our pathway programs at: rcas.org/rcasacademies

*Please Note: Courses may only be counted toward one credit type, for example:
Painting can be counted as a Fine Arts credit or an Academy credit, not both.*

VISUAL ARTS COURSES

ACADEMY LEVEL: PATHWAY ENGAGE COURSES

Introduction to Computer Arts

Credits: .5	Approved CTE Course
Prerequisites:	Grade: 10

This course will allow students to understand and critically evaluate the role of media in society. Topics of interest include the investigation of visual images, printed material and audio segments as tools of information, entertainment and propaganda. Students will evaluate skills in relation to mass media as well as recognize various techniques for delivery related to computer arts.

Basic Drawing & Design 1

Credits: .5	
Prerequisites:	Grade: 10,11,12

Students will explore tools and techniques in black and white media and color media. Emphasis will focus on learning observational skills and improving those skills. Focus will also include using the elements and principles of art and design to improve your skills.

Basic Drawing & Design 2

Credits: .5	
Prerequisites: Basic Drawing & Design 1 is essential for success	Grade: 10,11,12

Students will work more in-depth with the exploration of tools, media, and techniques along with the elements of art and design. Focus on formalistic art and critique is emphasized.

Clay Construction & Design

Credits: .5	
Prerequisites:	Grade: 10,11,12

Students explore clay as a 3-dimensional medium through a variety of hand-forming techniques including coil, pinch, slab and combinations. A variety of projects allow students to build utilitarian wares or sculptural pieces. Along with learning the basic techniques, tools, materials, and vocabulary, students experiment with a variety of decorating processes (including additive, subtractive, glazing, staining, and use of mixed media).

Advanced Clay

Credits: .5	
Prerequisites: Clay Construction & Design is essential for success	Grade: 10,11,12

This class is a continuation of Clay Construction and Design. Hand-building and wheel-throwing techniques will be continued with emphasis on creating an individual style. Students will advance with surface design using such things as paper and wax resist, colored slips, and scraffito. *This course may be taken more than once for credit at Central High School.*

Crafts

Credits: .5	
Prerequisites:	Grade: 10,11,12

Students will discover a variety of craft techniques with an emphasis on good craftsmanship. There will be exploration of various mediums and equipment used in designing hand-crafted items. Areas which may be included are copper foil, fiber arts, glass etching, clay, paper mache, and jewelry design.

VISUAL ARTS COURSES CONTINUED

Native American Arts

Credits: .5	
Prerequisites:	Grade: 10,11,12

Students will become acquainted with traditional Native American culture and art forms, design, and techniques through the use of contemporary media. Students will utilize the various methods and skills of Native American arts within projects.

Journalistic Design (Hosted at Stevens)

Credits: 1	Approved CTE Course
Prerequisites:	Grade: 10,11,12

Students will learn organization, design, and communication skills for production of the school annual yearbook. Students will also learn to incorporate graphic arts into computer-generated layouts using cutting edge industry-standard desktop publishing software to prepare students for college or career. Some outside class time may be required. Strong writing and editing skills are essential for this class and improvement of writing skills will be emphasized. *This course may be taken more than once for credit.*

Graphic Design 1

Credits: .5	Approved CTE Course
Prerequisites:	Grade: 10,11,12

Become skilled in powerful and complex software such as Adobe Photoshop, Illustrator, and Animate that will bring your creative work to the professional level. Spend time exploring legal and ethical issues, career opportunities, fundamentals graphics (raster vs vector graphics), various Adobe software tools, drawing tablets, and basic animations. Build skills that cross a variety of careers and interests!

Beginning Photography

Credits: 1	Approved CTE Course
Prerequisites:	Grade: 10,11,12

Create uniquely artistic images while developing your visual communication and composition skills. Use the parts and functions of 35 mm cameras and black and white film processing and printing experience to understand aperture, shutter speed, exposure, and light metering. Capture photographs that demonstrate strong balance, composition, and value range while showcasing your creative eye. *This course may fulfill one credit of Fine Arts for graduation.*

Web Development

Credits: .5	Approved CTE Course
Prerequisites: Computer Applications is essential for success	Grade: 10,11,12

Web Development is a course designed to guide students in a project-based environment implementing web development techniques. Through the use of hypertext markup language (HTML5) coding, Cascading Style Sheets (CSS), and JavaScript, students will plan, design, develop, deploy, and maintain website projects. Students will learn fundamentals for a career in web development as they complete projects and create their own website.

ACADEMY LEVEL: PATHWAY EXPERIENCE COURSES

Advanced Art

Credits: .5	
Prerequisites: Completion of Basic Drawing & Design 1 & 2, Clay & Advanced Clay, & Painting (CHS only), is essential for success	Grade: 11,12

Completion of Basic Drawing & Design 1 & 2, Clay & Advanced Clay, & Painting (CHS only), is essential for success in this class. Limited supplies required. Development and creation of ideas toward individual expression using the elements and principles of art, 2-dimensional and 3-dimensional projects, creative choice, use of medium, developing artist statement, discussing art, and presentation will be explored. *This course may be taken more than once for credit.*

VISUAL ARTS COURSES CONTINUED

Advanced Photography

Credits: 1	Approved CTE Course
Prerequisites: Beginning Photography is essential for success	Grade: 11,12

After successfully completing Beginning Photography, expand your photography skills with advanced camera operation, digital editing, and printing techniques. Experience digital publishing and photojournalism in conjunction with the school yearbook and newspaper. Develop your creative and critical thought with a mature artistic direction and personal photographic style. *This course may fulfill one credit of Fine Arts for graduation.*

Graphic Design 2

Credits: .5	Approved CTE Course
Prerequisites: Graphic Design 1 is essential for success	Grade: 11,12

Do you have a design flare but don't know what to do with it? Do you constantly imagine how things could be redesigned more effectively? Take what you learned in Graphic Design 1 and "step it up a notch"! Explore advanced design methods, page layouts, typography, color theory, and design principles and elements. Create amazing projects, learn about various forms of published media, and explore legal and ethical issues along with career opportunities in the world of design.

Media Production

Credits: .5	Approved CTE Course
Prerequisites:	Grade: 11,12

Have fun while exploring equipment operations, employability skills, software applications, careers, social networking, and media law. You will not only learn the creative process of film-making, but inevitably learn reading/writing (scripting/storyboards), drama (directing, casting, and acting), marketing (media production and distribution), ambiance (lighting), and technology (visual effects and editing).

Painting (Hosted at Central)

Credits: .5	
Prerequisites: Completion of Basic Drawing & Design 1 & 2 are essential for success	Grade: 11,12

Students will develop an individual style in painting through the study of various styles in art history using acrylics, tempera, water color, mixed media, and collage. Exploration of the basics of color, design, composition and drawing are the strong foundations of this class. Development of a portfolio and a language of art criticism are emphasized.

CAPSTONE COURSES

Check out the five Capstone Course options available to 11th - 12th graders on page 75.



Academy of STEM

proudly supported by **ELEVATE** **Scull** **RAMA** **MONUMENT** **HEALTH**

Agriculture, Food, & Natural Resources Pathway



PATHWAY DESCRIPTION: The Agriculture, Food, & Natural Resources Pathway students will examine the science of natural resources, develop a variety of opinions, and participate in a variety of field experiences. Students will explore hands-on projects and activities to learn the characteristics of animal science and work on major projects and problems.

RECOMMENDED PROGRAMS OF STUDY

	Explore 9th Grade	Engage 10th Grade	Experience	
			11th Grade	12th Grade
Academy & Pathway Courses (2.5 credits)	.5 credit	1 credit	1 credit minimum	
	Freshman Seminar Ag Leadership (required for FFA membership)	Introduction to Agriculture, Food, & Natural Resources & Introduction to Agriculture, Food, & Natural Resources 2	Advanced Animal Science (Veterinary) ¹ Animal Science ² AP Chemistry AP Statistics Capstone Experience (5 options) Environmental Science 1 & 2 Marketing Principles Microbiology Organic Chemistry Probability & Statistics Transition to College Math Natural Resources	
GRADtime (1 credit)	.25 credit	.25 credit	.25 credit	.25 credit
	GRADtime 9	GRADtime 10	GRADtime 11	GRADtime 12
Experiential Learning	Freshman Expo	Guest Speakers Industry Tours	Grade 11 Guest Speakers Industry Tours Capstone Experiences Postsecondary Exploration	Grade 12 Capstone Experiences Postsecondary Exploration

CAREER AND TECHNICAL STUDENT ORGANIZATION: FFA

COLLEGE & CAREER PATHS

Industry Certifications	Associate Degree	Bachelor's Degree	Advanced Degree
¹ Veterinary Assistant ² Youth Quality Care Assurance	Agricultural Technician Farm Laborer Animal Caretaker Agricultural Equipment Operator Animal Trainer	Biological Technician Agricultural Engineer Conservation Scientist Forester Precision Agriculture Technician	Animal Scientist Agricultural Technician Biological Technician Soil & Plant Scientist
YQCA YOUTH FOR QUALITY CARE OF ANIMALS			

Find out more about all our pathway programs at: rcas.org/racasacademies

Please Note: Courses may only be counted toward one credit type, for example: Animal Science can be counted as a Science credit or an Academy credit, not both.

AGRICULTURE, FOOD, & NATURAL RESOURCES COURSES

ACADEMY LEVEL: PATHWAY ENGAGE COURSES

Introduction to Agriculture, Food, & Natural Resources 1 & 2

Credits: 1		Approved CTE Course
Prerequisites:		Grade: 10,11,12

This course introduces students to the range of agricultural opportunities and the pathways of study they may pursue. Students will experience hands-on activities, projects, and problems which involve the study of the science of agriculture, plants, animals, and natural resources. In this course, students will learn to solve problems, conduct research, analyze data, work in teams, and take responsibility for their work, actions, and learning.

ACADEMY LEVEL: PATHWAY EXPERIENCE COURSES

Fundamentals of Animal Science/Lab

Credits: 1		Approved CTE Course
Prerequisites: Biology is essential for success		Grade: 11,12

This course involves the study of animal anatomy, physiology, behavior, nutrition, reproduction, health, selection, and marketing. Students will consider the perceptions and preferences of individuals within local, regional, and world markets. Students will learn the characteristics of animal science and work on major projects and problems like those that veterinarians, zoologists, livestock producers, and industry personnel face in their respective careers. *One year of this course may fulfill one credit of science for graduation, but may not be accepted as a laboratory science for college admissions.*

Advanced Animal Science (Veterinary)

Credits: 1		Approved CTE Course
Prerequisites: Biology or Companion Animal Science is essential for success		Grade: 11,12

This course addresses the advanced knowledge and skills necessary to care for animals. Topics covered include animal health care practices, nutrition management, reproductive practices, medical terminology, animal classification, surgical techniques, and employability skills. Advanced Animal Science has an increased focus on the veterinary portion of animal husbandry. Utilizing appropriate equipment and technology should enhance classroom and laboratory content.

Introduction to Organic Chemistry/Lab

Credits: .5		Approved Physical Science Course
Prerequisites: Chemistry / Lab is essential for success		Grade: 11,12

In this class, students will be introduced to the description of nomenclature, structural formulas, and reactions of organic compounds. Organic chemistry will include laboratory work, demonstrations, discussion and lecture.

AP Chemistry/Lab

Credits: 1		Approved Physical Science Course
Prerequisites: Chemistry/Lab is essential for success		Grade: 11,12

AP Chemistry will include laboratory work, demonstrations, discussion, and lecture dealing with the basic principles of chemistry. This class will culminate in the AP Chemistry examination which may be taken at the end of the school year at the student's expense. If students score high enough on this test, they may qualify for up to a year's worth of Chemistry from most colleges or universities.

AGRICULTURE, FOOD, & NATURAL RESOURCES COURSES CONTINUED

Environmental Science 1

Credits: .5	
Prerequisites: Successful completion of a Physical Science course is essential to success	Grade: 11,12

Do you love the great outdoors? Are you passionate about the environment? Environmental Science is a course that enables students to develop an understanding of the natural environment and the environmental problems the world faces. Students will participate in projects that will explore opportunity to manage, conserve, and preserve our natural resources. This semester will establish foundational knowledge around environmental science, population dynamics and energy conservation.

Environmental Science 2

Credits: .5	
Prerequisites: Successful completion of a Physical Science course is essential to success	Grade: 11,12

Do you love the great outdoors? Are you passionate about the environment? Environmental Science is a course that enables students to develop an understanding of the natural environment and the environmental problems the world faces. Students will participate in projects that will explore opportunity to manage, conserve, and preserve our natural resources. This semester will center on human impact on the environment and explore various viewpoints and strategies around maintaining a healthy environment.

Fundamentals of Natural Resources

Credits: 1		Approved CTE Course
Prerequisites: Biology is essential for success	Grade: 11,12	

This course provides students a variety of experiences in the fields of natural resources and ecology. Students will explore hands-on projects and activities while studying topics such as land use, water quality, stewardship, and environmental agencies. Study of the natural world including biomes, land, air, water, and energy use and care as well as a focus on issues surrounding man's interaction with the Earth will be addressed in this course.

Marketing Principles

Credits: .5		Approved CTE Course
Prerequisites:	Grade: 11,12	

Marketing Principles introduces the student to the basic concepts of modern marketing. Course content includes general marketing principles of product planning and production, distribution, pricing and promotions.

Microbiology/Lab

Credits: .5	
Prerequisites: Biology 1 & Biology 2 are essential for success	Grade: 11,12

The practical laboratory techniques used in this class would be beneficial for any student considering a career in any lab or medical related field. In this hands-on class, students will spend the majority of their time in the laboratory on the study, identification, isolation, and control of microorganisms, with emphasis on bacteria.

Transition to College Mathematics

Credits: .5	
Prerequisites: Algebra 2 is essential for success	Grade: 11,12

This course will aid in the retention of math skills for later college or career level work. Topics covered in this course are designed to strengthen and review algebraic reasoning. Students will study problem solving strategies, set theory, real number systems, and linear and quadratic functions.

AGRICULTURE, FOOD, & NATURAL RESOURCES COURSES CONTINUED

Probability & Statistics

Credits: .5	
Prerequisites: Algebra 2 is essential for success	Grade: 11,12

Students will study the three major topics in statistics: descriptive statistics (the basic tools of the statistician: mean, standard deviation, etc...), inferential statistics (tools that ensure valid experimental design and results), and probability (the mathematics of chance, randomness, and games of chance). They will also learn to critically evaluate statistics in their daily lives in order to become more informed consumers and citizens.

AP Statistics

Credits: 1	
Prerequisites: Algebra 2 is essential for success	Grade: 11,12

AP Statistics is equivalent to an introductory, non-calculus-based college course in Statistics. Students analyze data using graphical and numerical techniques, plan and implement data collection, use probability to analyze distributions of data, determine appropriate models of statistical inference, and make decisions based on confidence intervals and tests of significance. Students may take the AP Statistics exam at the course conclusion at their expense.

CAPSTONE COURSES

Check out the five Capstone Course options available to 11th - 12th graders on page 75.



PATHWAY DESCRIPTION: The Engineering Pathway will allow students the opportunity to participate in project-based learning focused on creativity and problem solving as it relates to a successful career in the engineering and manufacturing industries. Students will focus on integration of math and science concepts to enhance their understanding of designing solutions to proposed problems.

RECOMMENDED PROGRAMS OF STUDY

	Explore 9th Grade	Engage 10th Grade	Experience	
			11th Grade	12th Grade
	.5 credit	1 credit	1 credit minimum	
Academy & Pathway Courses (2.5 credits)	Freshman Seminar	Introduction to Engineering & Manufacturing & Introduction to Engineering & Manufacturing 2	AP Calculus AP Chemistry AP Computer Science A (Java) AP Computer Science Principles AP Physics 1, 2 & C: Mechanics AP Statistics CADD Capstone Experience (5 options) Computer Science (Python) Physics Probability & Statistics	
GRADtime (1 credit)	.25 credit	.25 credit	.25 credit	.25 credit
	GRADtime 9	GRADtime 10	GRADtime 11	GRADtime 12
Experiential Learning	Freshman Expo	Guest Speakers Industry Tours	Grade 11 Guest Speakers Industry Tours Capstone Experiences Postsecondary Exploration	Grade 12 Capstone Experiences Postsecondary Exploration

COLLEGE & CAREER PATHS

Industry Certifications	Associate Degree	Bachelor's Degree	Advanced Degree
	Engineering & Operation Technologist or Technician	Chemical Engineer Bioengineer Industrial Engineer	Biophysicist Electrical Engineer

Find out more about all our pathway programs at: rcas.org/racasacademies

*Please Note: Courses may only be counted toward one credit type, for example:
AP Calculus can be counted as a Math credit or an Academy credit, not both.*

ENGINEERING COURSES

ACADEMY LEVEL: PATHWAY ENGAGE COURSES

Introduction to Engineering & Manufacturing 1 & 2

Credits: 1	Approved CTE Course
Prerequisites:	Grade: 10,11,12

Are you interested in helping the world overcome challenges by helping to seek solutions? Do you enjoy learning about different ways to solve problems? In this course, students will learn the difference between engineering and manufacturing while being exposed to mechanical, civil, electrical, chemical, and industrial engineering fields. This course will include problem-based projects where students integrate both engineering and manufacturing concepts.

ACADEMY LEVEL: PATHWAY EXPERIENCE COURSES

Computer Science (Python)

Credits: 1	Approved CTE Course
Prerequisites: Algebra 1 is essential for success	Grade: 11,12

An interactive computer science course for students brand new to programming that teaches the foundations of computer science using the Python language. Not only will this year-long course prepare students for AP Computer Science A and AP Computer Science Principles, but it will teach students how to think computationally and solve complex problems, skills that are important for every student. *This course may count as either one credit of Career and Technical Education or as a science elective towards the Advanced Career Endorsement only.*

AP Computer Science A (Java)

Credits: 1	
Prerequisites:	Grade: 11,12

What is computer science? Is it simply being able to use a computer? Or write code? This course is an introductory college-level computing course that focuses on the details of writing computer software using the Java programming language. Fundamental topics include the design of solutions to problems, the use of data structures to organize large sets of data, the development and implementation of algorithms to process data and discover new information, the analysis of potential solutions, and the ethical and social implications of computing systems.

AP Computer Science Principles

Credits: 1	
Prerequisites: Computer Science is essential for success	Grade: 11,12

AP Computer Science Principles is an introductory college-level computing curriculum that introduces students to the breadth of the field of computer science. Students learn to design and evaluate solutions and to apply computer science to solve problems through the development of algorithms and programs. Students explain how computing innovations and computing systems, explore potential impacts, and contribute to a computing culture that is collaborative and ethical.

Computer-Aided Drafting & Design (CADD)

Credits: 1	Approved CTE Course
Prerequisites: Geometry is essential for success	Grade: 11,12

Do you enjoy technical design and computers? Are you interested in developing real-world plans and ideas? In this course, students will develop the fundamental skills necessary to create 2D and 3D drawings and models using CADD software. Students will create a variety of detailed plans and parts that are related to real world projects. Integration of modern industry equipment will be used to build projects based on CADD models.

ENGINEERING COURSES CONTINUED

Physics/Lab

Credits: 1	Approved Physical Science Course
Prerequisites: Completion or concurrent enrollment in Algebra 2 is essential for success	Grade: 11,12

Physics emphasizes the laws governing the workings of the Universe, from the smallest subatomic scales to transgalactic scales. Topics will include: kinematics, dynamics, gravitation, momentum, energy, oscillations, light, and an introduction to electricity, magnetism, and modern physics.

AP Physics 1/Lab

Credits: 1	Approved Physical Science Course
Prerequisites: Completion or concurrent enrollment in Pre-Calculus with Trigonometry is essential for success. Completion of Physics/Lab is recommended.	Grade: 11,12

AP Physics 1 is equivalent to a first-semester algebra-based college physics course, and it has a significant laboratory/project component. The course emphasizes Newtonian mechanics (including projectile motion, torque and angular momentum) as well as energy, power, mechanical waves (like earthquakes), and sound. It will introduce electric circuits.

AP Physics 2/Lab

Credits: 1	Approved Physical Science Course
Prerequisites: Completion or concurrent enrollment in Pre-Calculus with Trigonometry is essential for success. Completion of Physics/Lab is recommended.	Grade: 11,12

AP Physics 2 is equivalent to a second-semester algebra-based college physics course, and it has a significant laboratory/project component. It is mathematically rigorous. The course emphasizes fluid mechanics, thermodynamics, electricity, magnetism, optics, and atomic/nuclear/quantum physics.

AP Physics C: Mechanics/Lab

Credits: 1	Approved Physical Science Course
Prerequisites: Completion of Precalculus and Trigonometry is essential for success. Completion of Physics/Lab and/or AP Physics 1/Lab is recommended.	Grade: 11,12

The AP Physics C course utilizes Calculus, unlike AP Physics 1 or 2. It is akin to the first-year college physics course required by almost all majors in Science, Medicine, Engineering, and Technology. It is designed as a first physics course, taught alongside Calculus, but students may also take an introductory general Physics or AP Physics course to enhance their preparation. It focuses on the study of motion ranging from the flight of a javelin on Earth to the circular motion satellites orbits and rotational motion as in joints in the human skeletal system. It covers the causes of motion, namely forces and torques, in circumstances ranging from the human spine to bridge trusses, car engines to helicopter rotors, turbines to home run pitches. Furthermore, it covers momentum and energy, to simplify the analysis of collisions and the efficiency of systems. Finally, waves and oscillations ranging from earthquakes to a resonating violin string round out the course.

AP Chemistry/Lab

Credits: 1	Approved Physical Science Course
Prerequisites: Chemistry/Lab is essential for success	Grade: 11,12

AP Chemistry will include laboratory work, demonstrations, discussion, and lecture dealing with the basic principles of chemistry. This class will culminate in the AP Chemistry examination which may be taken at the end of the school year at the student's expense. If students score high enough on this test, they may qualify for up to a year's worth of Chemistry from most colleges or universities.

ENGINEERING COURSES CONTINUED

AP Calculus AB

Credits: 1	
Prerequisites: Pre-Calculus with Trigonometry is essential for success	Grade: 11,12

This is an introductory study of differential and integral calculus including applications in the physical, natural, and social sciences. Topics studied include functions and their graphs, limits and continuity, the derivative and applications, and the integral and applications. Students may elect to take the AP Calculus exam at the conclusion of the course at their expense.

Probability & Statistics

Credits: .5	
Prerequisites: Algebra 2 is essential for success	Grade: 11,12

Students will study the three major topics in statistics: descriptive statistics (the basic tools of the statistician: mean, standard deviation, etc...), inferential statistics (tools that ensure valid experimental design and results), and probability (the mathematics of chance, randomness, and games of chance). They will also learn to critically evaluate statistics in their daily lives in order to become more informed consumers and citizens.

AP Statistics

Credits: 1	
Prerequisites: Algebra 2 is essential for success	Grade: 11,12

AP Statistics is equivalent to an introductory, non-calculus-based college course in Statistics. Students analyze data using graphical and numerical techniques, plan and implement data collection, use probability to analyze distributions of data, determine appropriate models of statistical inference, and make decisions based on confidence intervals and tests of significance. Students may take the AP Statistics exam at the course conclusion at their expense.

CAPSTONE COURSES

Check out the five Capstone Course options available to 11th - 12th graders on page 75.



Academy of STEM

proudly supported by **ELEVATE** **Scull** **RAMA** **MONUMENT
HEALTH**

Healthcare Pathway



PATHWAY DESCRIPTION: The Healthcare Pathway will build the foundational skills and knowledge students need for a successful career in various healthcare fields.

RECOMMENDED PROGRAMS OF STUDY

	<i>Explore 9th Grade</i>	<i>Engage 10th Grade</i>	<i>Experience</i>	
			11th Grade	12th Grade
	.5 credit	1 credit	<i>1 credit minimum</i>	
Academy & Pathway Courses (2.5 credits)	Freshman Seminar	Introduction to Health Services ¹ & Introduction to Health Services 2 ¹	Advanced Animal Science (Veterinary) Anatomy & Physiology 1 & 2 AP Calculus AP Chemistry AP Physics 1, 2 & C: Mechanics AP Psychology AP Statistics BioMed 1 & 2 Capstone Experience (5 options) Environmental Science 1 & 2 Introduction to Organic Chemistry Microbiology Physics Probability & Statistics Psychology	
			<i>*Discuss potential dual credit opportunities with your counselor.</i>	
GRADtime (1 credit)	.25 credit	.25 credit	.25 credit	.25 credit
	GRADtime 9	GRADtime 10	GRADtime 11	GRADtime 12
Experiential Learning	Freshman Expo	Guest Speakers Industry Tours	Grade 11	Grade 12
			Guest Speakers Industry Tours Capstone Experiences Postsecondary Exploration	Capstone Experiences Postsecondary Exploration

CAREER AND TECHNICAL STUDENT ORGANIZATION: Health Occupations Students of America (HOSA)

COLLEGE & CAREER PATHS

Industry Certifications	Associate Degree	Bachelor's Degree	Advanced Degree
¹ CPR ¹ First Aid ¹ Stop the Bleed  	Diagnostic Medical Sonographer Medical Secretary Phlebotomist Dental Hygienist	Medical & Health Services Manager Athletic Trainer Respiratory Therapist Acute Care Nurse	Medical Scientist Epidemiologist Audiologist Physical Therapist

Find out more about all our pathway programs at: rcas.org/racasacademies

HEALTHCARE COURSES

ACADEMY LEVEL: PATHWAY ENGAGE COURSES

Introduction to Health Services 1 & 2

Credits: 1	Approved CTE Course
Prerequisites:	Grade: 10,11,12

Do you have a knack for science and curiosity for modern medicine? Do you think you may want to go into the fast-paced field of healthcare? This course will help you develop marketable and real-world knowledge and skills that are essential in providing high quality patient care and having a successful career in healthcare. As part of this course, students will receive certification in First Aid and CPR.

ACADEMY LEVEL: PATHWAY EXPERIENCE COURSES

Advanced Animal Science (Veterinary)

Credits: 1	Approved CTE Course
Prerequisites: Biology or Companion Animal Science is essential for success	Grade: 11,12

This course addresses the advanced knowledge and skills necessary to care for animals. Topics covered include animal health care practices, nutrition management, reproductive practices, medical terminology, animal classification, surgical techniques, and employability skills. Advanced Animal Science has an increased focus on the veterinary portion of animal husbandry. Utilizing appropriate equipment and technology should enhance classroom and laboratory content.

Anatomy & Physiology 1/Lab

Credits: .5	
Prerequisites: Biology 1 & Biology 2 are essential for success	Grade: 11,12

This course takes a closer look at the biological structure of humans, including things such as organs, muscles, and bones. The first semester includes anatomical terminology, the study of structure and function of tissues, and the integumentary, skeletal, and muscular systems. This course also involves a laboratory component, which includes anatomical studies using microscopy and dissection and the study of physiological concepts.

Anatomy & Physiology 2/Lab

Credits: .5	
Prerequisites: Biology 1 & Biology 2 are essential for success	Grade: 11,12

This course takes a closer look at the biological structure of humans, including things such as organs and blood. The second semester includes an in-depth study of the nervous and cardiovascular systems. This course also involves a laboratory component, which includes anatomical studies using microscopy and dissection and the study of physiological concepts.

Introduction to Organic Chemistry/Lab

Credits: .5	Approved Physical Science Course
Prerequisites: Chemistry / Lab is essential for success	Grade: 11,12

In this class, students will be introduced to the description of nomenclature, structural formulas, and reactions of organic compounds. Organic chemistry will include laboratory work, demonstrations, discussion and lecture.

AP Chemistry/Lab

Credits: 1	Approved Physical Science Course
Prerequisites: Chemistry/Lab is essential for success	Grade: 11,12

AP Chemistry will include laboratory work, demonstrations, discussion, and lecture dealing with the basic principles of chemistry. This class will culminate in the AP Chemistry examination which may be taken at the end of the school year at the student's expense. If students score high enough on this test, they may qualify for up to a year's worth of Chemistry from most colleges or universities.

HEALTHCARE COURSES CONTINUED

AP Physics 1/Lab

Credits: 1	Approved Physical Science Course
Prerequisites: Completion or concurrent enrollment in Pre-Calculus with Trigonometry is essential for success. Completion of Physics/Lab is recommended.	Grade: 11,12

AP Physics 1 is equivalent to a first-semester algebra-based college physics course, and it has a significant laboratory/project component. The course emphasizes Newtonian mechanics (including projectile motion, torque and angular momentum) as well as energy, power, mechanical waves (like earthquakes), and sound. It will introduce electric circuits.

AP Physics 2/Lab

Credits: 1	Approved Physical Science Course
Prerequisites: Completion or concurrent enrollment in Pre-Calculus with Trigonometry is essential for success. Completion of Physics/Lab is recommended.	Grade: 11,12

AP Physics 2 is equivalent to a second-semester algebra-based college physics course, and it has a significant laboratory/project component. It is mathematically rigorous. The course emphasizes fluid mechanics, thermodynamics, electricity, magnetism, optics, and atomic/nuclear/quantum physics.

AP Physics C: Mechanics/Lab

Credits: 1	Approved Physical Science Course
Prerequisites: Completion of Precalculus and Trigonometry is essential for success. Completion of Physics/Lab and/or AP Physics 1/Lab is recommended.	Grade: 11,12

The AP Physics C course utilizes Calculus, unlike AP Physics 1 or 2. It is akin to the first-year college physics course required by almost all majors in Science, Medicine, Engineering, and Technology. It is designed as a first physics course, taught alongside Calculus, but students may also take an introductory general Physics or AP Physics course to enhance their preparation. It focuses on the study of motion ranging from the flight of a javelin on Earth to the circular motion satellites orbits and rotational motion as in joints in the human skeletal system. It covers the causes of motion, namely forces and torques, in circumstances ranging from the human spine to bridge trusses, car engines to helicopter rotors, turbines to home run pitches. Furthermore, it covers momentum and energy, to simplify the analysis of collisions and the efficiency of systems. Finally, waves and oscillations ranging from earthquakes to a resonating violin string round out the course.

Probability & Statistics

Credits: .5	
Prerequisites: Algebra 2 is essential for success	Grade: 11,12

Students will study the three major topics in statistics: descriptive statistics (the basic tools of the statistician: mean, standard deviation, etc...), inferential statistics (tools that ensure valid experimental design and results), and probability (the mathematics of chance, randomness, and games of chance). They will also learn to critically evaluate statistics in their daily lives in order to become more informed consumers and citizens.

AP Statistics

Credits: 1	
Prerequisites: Algebra 2 is essential for success	Grade: 11,12

AP Statistics is equivalent to an introductory, non-calculus-based college course in Statistics. Students analyze data using graphical and numerical techniques, plan and implement data collection, use probability to analyze distributions of data, determine appropriate models of statistical inference, and make decisions based on confidence intervals and tests of significance. Students may take the AP Statistics exam at the course conclusion at their expense.

HEALTHCARE COURSES CONTINUED

AP Calculus AB

Credits: 1	
Prerequisites: Pre-Calculus with Trigonometry is essential for success	Grade: 11,12

This is an introductory study of differential and integral calculus including applications in the physical, natural, and social sciences. Topics studied include functions and their graphs, limits and continuity, the derivative and applications, and the integral and applications. Students may elect to take the AP Calculus exam at the conclusion of the course at their expense.

Principles of Biomedical Sciences 1 & 2

Credits: 1		Approved CTE Course
Prerequisites: Biology 1 is essential for success		Grade: 11,12

Students investigate the human body systems and various health conditions to determine the factors that led to the death of a fictional person, and investigate lifestyle choices and medical treatments that might have prolonged the person's life, introducing students to human physiology, medicine, research processes and bioinformatics. *One year of this course may fulfill one credit of science for graduation, but may not be accepted as a laboratory science for college admissions.*

Microbiology/Lab

Credits: .5	
Prerequisites: Biology 1 & Biology 2 are essential for success	Grade: 11,12

The practical laboratory techniques used in this class would be beneficial for any student considering a career in any lab or medical related field. In this hands-on class, students will spend the majority of their time in the laboratory on the study, identification, isolation, and control of microorganisms, with emphasis on bacteria.

Environmental Science 1

Credits: .5	
Prerequisites: Successful completion of a Physical Science course is essential to success	Grade: 11,12

Do you love the great outdoors? Are you passionate about the environment? Environmental Science is a course that enables students to develop an understanding of the natural environment and the environmental problems the world faces. Students will participate in projects that will explore opportunity to manage, conserve, and preserve our natural resources. This semester will establish foundational knowledge around environmental science, population dynamics and energy conservation.

Environmental Science 2

Credits: .5	
Prerequisites: Successful completion of a Physical Science course is essential to success	Grade: 11,12

Do you love the great outdoors? Are you passionate about the environment? Environmental Science is a course that enables students to develop an understanding of the natural environment and the environmental problems the world faces. Students will participate in projects that will explore opportunity to manage, conserve, and preserve our natural resources. This semester will center on human impact on the environment and explore various viewpoints and strategies around maintaining a healthy environment.

HEALTHCARE COURSES CONTINUED

Psychology

Credits: .5	
Prerequisites:	Grade: 10,11,12

Psychology is the scientific study of behavior and mental processes. The course will emphasize the mind and its development, principles of learning, memory, sensation and perception, personality theories, emotion and stress, states of consciousness, motivation, and abnormal behavior.

AP Psychology (Hosted at Stevens)

Credits: 1	
Prerequisites:	Grade: 10,11,12

This course will guide students through an in-depth look at the relationship of biological and social factors on human development. Students will be required to conduct and/or review research, analyze data, and develop inferences analyzing real-life situations. Preparation for the College Board National Exam is emphasized. Interest in psychology is preferred; prior enrollment in psychology classes is a non-factor.

Physics/Lab

Credits: 1		Approved Physical Science Course
Prerequisites: Completion or concurrent enrollment in Algebra 2 is essential for success		Grade: 11,12

Physics emphasizes the laws governing the workings of the Universe, from the smallest subatomic scales to transgalactic scales. Topics will include: kinematics, dynamics, gravitation, momentum, energy, oscillations, light, and an introduction to electricity, magnetism, and modern physics.

CAPSTONE COURSES

Check out the five Capstone Course options available to 11th - 12th graders on page 75.



Academy of STEM

proudly supported by **ELEVATE** **Scull** **RAMA** **MONUMENT HEALTH**

Information Technology Pathway



PATHWAY DESCRIPTION: The Information Technology Pathway will give students hands-on experience in the core concept areas of computer programming, networking, and cybersecurity.

RECOMMENDED PROGRAMS OF STUDY

	Explore 9th Grade	Engage 10th Grade	Experience	
			11th Grade	12th Grade
Academy & Pathway Courses (2.5 credits)	.5 credit	1 credit	1 credit minimum	
	Freshman Seminar	Introduction to Technology & Web Development ²	Advanced Computer Applications ¹ AP Computer Science A (Java) AP Computer Science Principles Capstone Experience (5 options) Computer Science (Python)	
			<i>*Discuss potential dual credit opportunities with your counselor.</i>	
GRADtime (1 credit)	.25 credit	.25 credit	.25 credit	.25 credit
	GRADtime 9	GRADtime 10	GRADtime 11	GRADtime 12
Experiential Learning	Freshman Expo	Guest Speakers Industry Tours	Grade 11 Guest Speakers Industry Tours Capstone Experiences Postsecondary Exploration	Grade 12 Capstone Experiences Postsecondary Exploration

COLLEGE & CAREER PATHS

Industry Certifications	Associate Degree	Bachelor's Degree	Advanced Degree
¹ Microsoft Office ² Adobe 	Web Developer Search Marketing Specialist Information Technology Project Manager	Software Developer Video Game Designer Web Administrator	Computer & Information Research Scientist Business Intelligence Analyst Document Management Strategist

Find out more about all our pathway programs at: rcas.org/racasacademies

*Please Note: Courses may only be counted toward one credit type, for example:
Advanced Computer Applications can be counted as an Elective credit or an Academy credit, not both.*

INFORMATION TECHNOLOGY COURSES

ACADEMY LEVEL: PATHWAY ENGAGE COURSES

Introduction to Technology

Credits: .5	Approved CTE Course
Prerequisites: Algebra 1 & Computer Applications are essential for success	Grade: 10,11,12

Ever wondered why an algorithm behaves the way it does? Ever needed to "Scratch" an itch for game programming? This course explores new and emerging technologies in relation to Information Technology. The course will prepare students with knowledge and background of technology careers, programming, and hardware.

Web Development

Credits: .5	Approved CTE Course
Prerequisites: Computer Applications is essential for success	Grade: 10,11,12

Web Development is a course designed to guide students in a project-based environment implementing web development techniques. Through the use of hypertext markup language (HTML5) coding, Cascading Style Sheets (CSS), and JavaScript, students will plan, design, develop, deploy, and maintain website projects. Students will learn fundamentals for a career in web development as they complete projects and create their own website.

ACADEMY LEVEL: PATHWAY EXPERIENCE COURSES

Computer Science (Python)

Credits: 1	Approved CTE Course
Prerequisites: Algebra 1 is essential for success	Grade: 11,12

An interactive computer science course for students brand new to programming that teaches the foundations of computer science using the Python language. Not only will this year-long course prepare students for AP Computer Science A and AP Computer Science Principles, but it will teach students how to think computationally and solve complex problems, skills that are important for every student. *This course may count as either one credit of Career and Technical Education or as a science elective towards the Advanced Career Endorsement only.*

AP Computer Science A (Java)

Credits: 1	
Prerequisites:	Grade: 11,12

What is computer science? Is it simply being able to use a computer? Or write code? This course is an introductory college-level computing course that focuses on the details of writing computer software using the Java programming language. Fundamental topics include the design of solutions to problems, the use of data structures to organize large sets of data, the development and implementation of algorithms to process data and discover new information, the analysis of potential solutions, and the ethical and social implications of computing systems.

AP Computer Science Principles

Credits: 1	
Prerequisites: Computer Science is essential for success	Grade: 11,12

AP Computer Science Principles is an introductory college-level computing curriculum that introduces students to the breadth of the field of computer science. Students learn to design and evaluate solutions and to apply computer science to solve problems through the development of algorithms and programs. Students explain how computing innovations and computing systems, explore potential impacts, and contribute to a computing culture that is collaborative and ethical.

INFORMATION TECHNOLOGY COURSES CONTINUED

Advanced Computer Applications

Credits: .5	Approved CTE Course
Prerequisites: Computer Applications is essential for success	Grade: 10,11,12

Demonstrate that you have the skills to earn Microsoft Office Specialist certifications (MOS) by exploring the advanced features/techniques of Word, Excel, Access, and PowerPoint. Build a brighter future by achieving industry-recognized certifications, learning computing skills companies are looking for, boosting your workforce resume, differentiating yourself from other job applicants, heightening your earning potential (\$), and preparing yourself for a successful future.

CAPSTONE COURSES

Check out the five Capstone Course options available to 11th - 12th graders on page 60.

ENGLISH LANGUAGE ARTS

Reading Requirement - Students in grades 9 through 12 who have not met the district's reading requirement must continue to enroll in reading support until the 9.0 grade level reading equivalency is met, unless the IEP Team has determined this course is not required. Students must demonstrate the ninth-grade level of reading proficiency on a district adopted standardized test in order to graduate. Students on an Active IEP may be allowed to graduate without this course as determined by the IEP Team. To learn more about this reading requirement, please reference [District Code IKF](#).

English 10

Credits: 1	
Prerequisites:	Grade: 10

English 10 is a year-long course satisfying the tenth grade English requirement. This course will include all standards in the tenth grade reading, writing, and speaking / listening and language strands in an integrated approach. Students will satisfy the state speech requirement. English 10 is required for all tenth grade students.

Advanced English 10

Credits: 1	
Prerequisites:	Grade: 10

This course will include all standards in the tenth grade reading, writing, and speaking / listening and language strands. In addition, Advanced English 10 requires more in-depth study and more independent work outside of the class. This class involves working on several projects simultaneously with varying deadlines. Additional reading is an integral part of the class. Advanced English 10 will fulfill the tenth grade English requirement.

English 11

Credits: 1	
Prerequisites:	Grade: 11

English 11 is a year-long course satisfying the eleventh grade English requirement. This course will include all standards in the eleventh grade reading, writing, and speaking / listening and language strands in an integrated approach. Students will also satisfy the state American literature requirement.

AP English Language & Composition

Credits: 1	
Prerequisites:	Grade: 11

This writing-intensive course prepares students for college-level writing and introduces American literature. Students will write for various audiences and purposes and will read both fiction and nonfiction, analyzing writers' rhetorical styles. The course is recommended for students planning to enroll in AP Literature their senior year, and passing the AP exam earns a writing credit that most colleges require for all students.

English 12

Credits: 1	
Prerequisites:	Grade: 12

This course integrates all twelfth grade ELA standards. Students will explore ethics and inclusion while engaging in projects and activities that will help them develop advanced levels of reading, writing, speaking, and listening skills. As a culminating project, students will research, prepare, and present a chosen topic to a specific audience of stakeholders.

ENGLISH LANGUAGE ARTS CONTINUED

AP English Literature & Composition

Credits: 1	
------------	--

Prerequisites:	Grade: 12
----------------	-----------

This is a discussion based class in which students will analyze literature to determine how the literature affects its readers and in what ways. Students will "measure" literature against the history of philosophy to understand how literature fits into its own time as well as in all time. Writing well about literature is a key component of the class. The course is equivalent to a freshman college English Literature course.

Technical Writing

Credits: .5	
-------------	--

Prerequisites:	Grade: 12
----------------	-----------

This is a semester course satisfying 0.5 credit of the state English composition requirement. This course prepares students for writing in real-world situations. Students will explore ethics and inclusion, content and design strategies, using technology in business, evidence-based and instructional communication, and collaborative engagement with professional communities. Writing will focus on communicating effectively with other professionals.

Literature (Fiction/Nonfiction)

Credits: .5	
-------------	--

Prerequisites:	Grade: 12
----------------	-----------

This course focuses on literary and informational texts which emphasize diversity, ethics, and inclusion. Students will cite strong evidence from the text, determine central ideas, and analyze the impact of authors' point of view, purpose, and form. Students will evaluate texts for accuracy and bias by examining the author's tone, purpose, and audience.

FINE ARTS

Basic Drawing & Design 1

Credits: .5	
Prerequisites:	Grade: 10,11,12

Students will explore tools and techniques in black and white media and color media. Emphasis will focus on learning observational skills and improving those skills. Focus will also include using the elements and principles of art and design to improve your skills.

Basic Drawing & Design 2

Credits: .5	
Prerequisites: Basic Drawing & Design 1 is essential for success	Grade: 10,11,12

Students will work more in-depth with the exploration of tools, media, and techniques along with the elements of art and design. Focus on formalistic art and critique is emphasized.

Clay Construction & Design

Credits: .5	
Prerequisites:	Grade: 10,11,12

Students explore clay as a 3-dimensional medium through a variety of hand-forming techniques including coil, pinch, slab and combinations. A variety of projects allow students to build utilitarian wares or sculptural pieces. Along with learning the basic techniques, tools, materials, and vocabulary, students experiment with a variety of decorating processes (including additive, subtractive, glazing, staining, and use of mixed media).

Crafts

Credits: .5	
Prerequisites:	Grade: 10,11,12

Students will discover a variety of craft techniques with an emphasis on good craftsmanship. There will be exploration of various mediums and equipment used in designing hand-crafted items. Areas which may be included are copper foil, fiber arts, glass etching, clay, paper mache, and jewelry design.

Native American Arts

Credits: .5	
Prerequisites:	Grade: 10,11,12

Students will become acquainted with traditional Native American culture and art forms, design, and techniques through the use of contemporary media. Students will utilize the various methods and skills of Native American arts within projects.

Advanced Clay

Credits: .5	
Prerequisites: Clay Construction & Design is essential for success	Grade: 10,11,12

This class is a continuation of Clay Construction and Design. Hand-building and wheel-throwing techniques will be continued with emphasis on creating an individual style. Students will advance with surface design using such things as paper and wax resist, colored slips, and scraffito. *This course may be taken more than once for credit at Central High School.*

Advanced Art

Credits: .5	
Prerequisites: Completion of Basic Drawing & Design 1 & 2, Clay & Advanced Clay, & Painting (CHS only), is essential for success	Grade: 11,12

Completion of Basic Drawing & Design 1 & 2, Clay & Advanced Clay, & Painting (CHS only), is essential for success in this class. Limited supplies required. Development and creation of ideas toward individual expression using the elements and principles of art, 2-dimensional and 3-dimensional projects, creative choice, use of medium, developing artist statement, discussing art, and presentation will be explored. *This course may be taken more than once for credit.*

FINE ARTS CONTINUED

Beginning Photography

Credits: 1	Approved CTE Course
Prerequisites:	Grade: 10,11,12

Create uniquely artistic images while developing your visual communication and composition skills. Use the parts and functions of 35 mm cameras and black and white film processing and printing experience to understand aperture, shutter speed, exposure, and light metering. Capture photographs that demonstrate strong balance, composition, and value range while showcasing your creative eye. *This course may fulfill one credit of Fine Arts for graduation.*

Advanced Photography

Credits: 1	Approved CTE Course
Prerequisites: Beginning Photography is essential for success	Grade: 11,12

After successfully completing Beginning Photography, expand your photography skills with advanced camera operation, digital editing, and printing techniques. Experience digital publishing and photojournalism in conjunction with the school yearbook and newspaper. Develop your creative and critical thought with a mature artistic direction and personal photographic style. *This course may fulfill one credit of Fine Arts for graduation.*

Painting (Hosted at Central)

Credits: .5	
Prerequisites: Completion of Basic Drawing & Design 1 & 2 are essential for success	Grade: 11,12

Students will develop an individual style in painting through the study of various styles in art history using acrylics, tempera, water color, mixed media, and collage. Exploration of the basics of color, design, composition and drawing are the strong foundations of this class. Development of a portfolio and a language of art criticism are emphasized.

Chamber Orchestra 1-2-3-4

Credits: 1	
Prerequisites: Audition required; Enrollment in Orchestra 1-2-3-4 is essential for success	Grade: 9-12

Chamber Orchestra gives the student an opportunity to study advanced small group ensemble music and orchestral literature. Students will continue the advanced development of instrumental technique, music reading and comprehension skills, independent musicianship, style, critical thinking skills, a deeper understanding of small group ensemble music, and orchestral literature. Students will perform both in small group ensemble projects and as a large group.

Concert or Symphonic Band 2-3-4

Credits: 1	
Prerequisites: Band 1 is essential for success	Grade: 10,11,12

Students will continue to rehearse, create, and perform music. They will further their ability to make outside connections to the music and explore how to respond to the art form. They will continue to develop mastery on their instruments as solo performers as well as in small and large ensembles. Through band, students will gain skills in leadership, collaboration, creative thinking, and problem solving.

Jazz Band 2-3-4

Credits: 1	
Prerequisites: Enrollment in Concert or Symphonic Band 2-3-4 is essential for success	Grade: 10,11,12

Students will continue to develop their understanding of jazz music. They will perform music of various styles, further explore improvisation solos, learn about great jazz musicians, and the historical context of jazz music. Students will begin to explore arranging and composing through jazz analysis, identifying modes, scales, harmony, and form. Students will fine tune their leadership skills, critical listening, and performance skills independently and collaboratively.

FINE ARTS CONTINUED

Orchestra 2-3-4

Credits: 1	
Prerequisites: Orchestra 1 is essential for success	Grade: 10,11,12

Educational emphasis in Orchestra is placed on the advancement of instrumental technique, further development of music reading and comprehension skills, independent musicianship, style, and a deeper understanding of ensemble music and orchestral literature. Students will perform both in small group ensemble projects and as a large group. Extra-curricular: All-State Orchestra, All-State Band, Region 8 Solo & Ensemble Performance, and large ensemble festivals and clinics.

Bass Choir 1-2-3-4

Credits: 1	
Prerequisites: Previous music ensemble experience is essential for success	Grade: 9-12

This course is for tenor, bass, and/or changing voices. Students will create and perform music from different genres, cultures, and languages. Music reading skills will be developed and connections to music history will be strengthened. Through choir, students will gain skills in leadership, collaboration, creative thinking, and problem solving. *This course may be taken more than once for credit.*

Treble Choir 2-3-4

Credits: 1	
Prerequisites: Chorus 1 or equivalent is essential for success	Grade: 10,11,12

This course is for voices in the soprano and alto range. Students will continue to create and perform music from different genres, cultures, and languages. Music reading skills will continue to be developed and connections to music history will be strengthened. Through choir, students will gain skills in leadership, collaboration, creative thinking, and problem solving. *This course may be taken more than once for credit.*

Reflections 2-3-4 (Hosted at Central) & Poetry in Motion 2-3-4 (Hosted at Stevens)

Credits: 1	
Prerequisites: Audition required; Enrollment in a concurrent choir ensemble is essential for success	Grade: 10,11,12

Students in this select ensemble perform at concerts, contest, tours, school events, and within the community. Students will begin to develop skills necessary to perform pop, jazz, and show choir music. Students will fine tune their leadership skills, critical listening, and performance skills independently and collaboratively.

Singers 2-3-4

Credits: 1	
Prerequisites: Audition required; Enrollment in a concurrent choir ensemble is essential for success	Grade: 10,11,12

This course is for mixed voices. Students in this select ensemble create and perform music from all time periods in concerts, contest, tours, school events, and within the community. Students will develop skills necessary to perform pop, jazz, and show choir music. Students will fine tune their leadership skills, critical listening and performance skills independently and collaboratively. *This course may be taken more than once for credit.*

Concert Choir 2-3-4

Credits: 1	
Prerequisites: Audition required	Grade: 10,11,12

This course is for mixed voices. Students will continue to create and perform music of different genres, cultures and languages. Music reading skills will continue to be developed; connections to music history will be strengthened. Students will fine tune their leadership skills and will develop skills to become musically independent and capable of success in a post high school choir. *This course may be taken more than once for credit.*

Music courses may be taken more than once for credit.

FINE ARTS CONTINUED

Drama 1 (Introduction to Theatre)

Credits: .5	
Prerequisites:	Grade: 9-12

An introduction to theatre arts and performance through the topics of storytelling, the origins of drama, pantomime, vocal production, improvisation, basic stage movement, play reading, performing, and observation. Students will engage in theatre related exercises and activities, developing characters, and creative problem-solving skills using dramatic literature. Theatre etiquette and art appreciation are also covered.

Drama 2 (Acting & Theatre History)

Credits: .5	
Prerequisites: Drama 1 is essential for success	Grade: 10,11,12

Drama 2 consists of further study of the topics covered in Drama 1, with advanced vocal production and movement, memorization skills, scene work, audition techniques, advanced script study, theatre history, and the development of play production. Students will further engage in observation, interpretation, and analysis or artistic work.

Drama 3 (Advanced Acting & Theatre History)

Credits: .5	
Prerequisites: Drama 1 & 2 are essential for success	Grade: 10,11,12

This course emphasizes the societal, cultural, historical, and personal context of artistic work through acting styles and theories throughout the ages. Further exploration in character development and analysis, and an introduction to directing and original script writing will be reflected through the study and performance of comedic and dramatic literature.

Drama 4 (Advanced Theatre Production - ATP)

Credits: 1	
Prerequisites: Audition required; Drama 1 & 2 are essential for success	Grade: 11,12

Drama 4 is a year-long course devoted to the advanced study of artistic works. A professional portfolio of audition material, and resumes and design work will be developed as students engage in the directing, management, design, and devising aspects of a theatrical production. Students will also participate in community outreach and special projects related to theatre arts.

Stagecraft (Theatre Technology & Design)

Credits: .5	Hosted at Central - Grade: 10,11,12
Prerequisites: Drama 1 is essential for success	Hosted at Stevens - Grade: 9-12

This class emphasizes basic backstage training for production. Basic stagecraft, safety, publicity, drafting, design, stage makeup, costuming properties, stage lighting, sound, and painting are all topics covered in this class.

Advanced Stagecraft (Advanced Theatre Technology & Design) (Hosted at Central)

Credits: .5	
Prerequisites: Stagecraft is essential for success	Grade: 11,12

Advanced, hands-on backstage training for production. Safety, fly system training management and maintenance, pin rail operation, lighting design and light board operation, sound design and sound board operation, stage management, house management, and utilization of special effects. Multiple practicum applications.

HEALTH & PHYSICAL EDUCATION

Health & Physical Education courses may be taken more than once for credit.

Only one (1) Health & Physical Education course may be taken per semester.

Physical fitness testing will be required throughout the semester.

Health instruction will be presented throughout the semester for each course offered in Health & Physical Education.

Weight Training & Personal Health (Hosted at Stevens)

Credits: .5	
Prerequisites:	Grade: 9-12

The emphasis of this class will be the development of strength, power, muscle endurance, and the cardiovascular system. Students will be taught the proper techniques in using machines and free weights, spotting procedures, and a variety of weight training workouts. Cardiovascular circuits may include jump ropes, running, plyometrics, balance discs, medicine balls, and stability balls.

Advanced Weight Training & Personal Health (Hosted at Stevens)

Credits: .5	
Prerequisites: Weight Training & Personal Health is essential for success	Grade: 10,11,12

The emphasis of this class will be for the development of strength, power, and muscle endurance. An emphasis will also be placed on the cardiovascular system. Students will learn advanced weightlifting techniques and will train at a high level of intensity. Cardiovascular circuits may include jump ropes, running, plyometrics, balance discs, medicine balls, and stability balls.

Cardio - Fitness & Wellness (Hosted at Stevens)

Credits: .5	
Prerequisites:	Grade: 9-12

The emphasis of this class is to improve cardiovascular endurance. Emphasis will also be placed on muscular endurance/strength, flexibility, coordination, agility, and balance. Workouts include running, circuit training, plyometrics, step aerobics, kick boxing, toning, weightlifting, and flexibility training.

Lifetime Activities & Life Choices (Hosted at Stevens)

Credits: .5	
Prerequisites:	Grade: 10,11,12

Students will experience a variety of coed activities to develop strength, speed, agility, balance, coordination, flexibility, muscular endurance, cognitive thinking skills and strategies, and rules of games. Students will be expected to perform basic skills and complete written assignments. Students will need to provide their own transportation for activities off campus.

Team Activities & Healthy Choices (Hosted at Stevens)

Credits: .5	
Prerequisites:	Grade: 9-12

Students will experience a variety of coed activities to develop strength, speed, agility, balance, coordination, flexibility, muscular endurance, cognitive thinking skills and strategies and rules of games. Students will be taught activities that can be used for a lifetime. Students will be expected to perform basic skills and complete written assignments for each activity.

HEALTH & PHYSICAL EDUCATION CONTINUED

Individual & Team Sports (Hosted at Central)

Credits: .5	
Prerequisites:	Grade: 9-12

Students will experience a variety of coed sports to develop strength, speed, agility, balance, coordination, flexibility, muscular endurance, cognitive thinking skills, strategies and rules of games. Students will be expected to perform basic skills and complete written assignments.

Strength & Conditioning (Hosted at Central)

Credits: .5	
Prerequisites:	Grade: 9-12

The emphasis of this class will be the development of athleticism through workouts that focus on speed, power, muscle endurance, and the cardiovascular system. Cardiovascular/power circuits may include jump ropes, running, plyometrics, balance discs, medicine balls, stability balls, etc. Sport specific development will also be an emphasis in this class.

Advanced Strength & Conditioning/Cobbler Power (Hosted at Central)

Credits: .5	
Prerequisites:	Grade: 9-12

The emphasis of this class will be the development of athleticism through advanced lifting practices. Students will be taught advanced lifts, strength training periodization, and proper nutritional practices to enhance athletic performance. Sport specific development will also be an emphasis in this class.

RECOMMENDED COURSE SEQUENCING

Every student should take the highest level of mathematics class in which they will be successful. Students should use this chart, as well as the recommendation given by their current math teacher, to choose an appropriate subsequent course in mathematics.

Note:

Some lower level mathematics courses may not apply toward college mathematics and scholarship requirements.

*Students may not earn 2 credits towards graduation requirements from the same course.

Previous Course	Grade	Recommended Next Course
Middle School – Math 8		Bridge Math Algebra 1
Bridge Math		Algebra 1
Algebra 1 (includes those students enrolled in Algebra 1 in 8th grade and have passed the MS Algebra 1 course)	A, B, C	Geometry
	D	Geometry
	F	Retake Algebra 1
Geometry	A, B, C	Algebra 2 Financial Algebra
		Financial Algebra Transition to College Mathematics
	D	Transition to College Mathematics
		Retake Geometry
Financial Algebra	A, B	Algebra 2 Probability & Statistics
		Transition to College Mathematics
	C	Transition to College Mathematics Probability & Statistics
Algebra 2	A, B	Pre-Calculus with Trigonometry
	A, B, C	Trigonometry AP Statistics
		Probability & Statistics
	A, B, C, D	Transition to College Mathematics
		Recommend retake Algebra 2 or Financial Algebra with grade replacement form*
	F	Transition to College Mathematics
Pre-Calculus w/ Trigonometry	A, B	AP Calculus
	A, B, C	Probability and Statistics AP Statistics
		Recommend retake Pre-Calculus w/Trigonometry with grade replacement form*
	C, D, F	Transition to College Mathematics
Transition to College Mathematics	A, B	Trigonometry
	A, B, C	Probability and Statistics
Trigonometry	A, B, C, D	Probability and Statistics Transition to College Mathematics
		Recommend retake Trigonometry with grade replacement form*
	F	
Probability and Statistics	A, B, C, D	Trigonometry Transition to College Mathematics
		AP Statistics
	F	Recommend retake Probability and Statistics with grade replacement form*

Algebra 1

Credits: 1	
Prerequisites:	Grade: 9-12

The fundamental purpose of Algebra 1 is to formalize and extend the mathematics that students learned in the middle grades. Students will deepen and extend understanding of properties and operations of the real number system; evaluating rational algebraic expressions; solving and graphing first-degree equations and inequalities; translating word problems into equations; operations with and factoring of polynomials; and solving simple quadratic equations.

Geometry

Credits: 1	
Prerequisites: Algebra I is essential for success	Grade: 9-12

The focus of Geometry includes topics such as properties of plane and solid figures; deductive methods of reasoning and use of logic; geometry as an axiomatic system including the study of postulates, theorems, and formal proofs; concepts of congruence, similarity, parallelism, perpendicularity, and proportion; and rules of angle measurement in triangles.

Algebra 2

Credits: 1	
Prerequisites: Geometry is essential for success	Grade: 10,11,12

The purpose of Algebra 2 is to develop and connect learning from Algebra 1. Students will apply methods and extend learning in topics such as set theory; operations with rational and irrational expressions; factoring of rational expressions; linear equations and inequalities; quadratic equations; solving systems of linear and quadratic equations; graphing quadratic equations; properties of higher-degree equations and rational exponents.

Financial Algebra

Credits: 1	
Prerequisites:	Grade: 11,12

Financial Algebra is a mathematical modeling course that is algebra-based and technology-dependent. The course covers math concepts using eight financial umbrellas: Discretionary Expenses, Banking, Investing, Credit, Employment and Income Taxes, Automobile Ownership, Independent Living, Retirement Planning and Household Budgeting. The course allows students to experience the interrelatedness of mathematical topics from known situations to unknown situations.

Pre-Calculus with Trigonometry

Credits: 1	
Prerequisites: Algebra 2 is essential for success	Grade: 11,12

Pre-Calculus with Trigonometry prepares a college-bound student for their first course in calculus. The course includes the study of advanced functions, including polynomial, exponential, logarithmic, trigonometric, and circular functions. Students will study the algebraic relationships between these functions, their graphs, and transformations of these functions. Students will also be introduced to the concepts of limits.

Probability & Statistics

Credits: .5	
Prerequisites: Algebra 2 is essential for success	Grade: 11,12

Students will study the three major topics in statistics: descriptive statistics (the basic tools of the statistician: mean, standard deviation, etc...), inferential statistics (tools that ensure valid experimental design and results), and probability (the mathematics of chance, randomness, and games of chance). They will also learn to critically evaluate statistics in their daily lives in order to become more informed consumers and citizens.

Transition to College Mathematics

Credits: .5	
Prerequisites: Algebra 2 is essential for success	Grade: 11,12

This course will aid in the retention of math skills for later college or career level work. Topics covered in this course are designed to strengthen and review algebraic reasoning. Students will study problem solving strategies, set theory, real number systems, and linear and quadratic functions.

Trigonometry (Hosted at Stevens)

Credits: .5	
Prerequisites: Algebra 2 is essential for success	Grade: 11,12

This course includes the study of trigonometric functions as they relate to triangles and to circular functions, their graphs, the algebraic relationships between the functions, and an introduction to vectors. This course is for students who do not plan to take Pre-Calculus with Trigonometry. If Pre-Calculus with Trigonometry is taken, no credit will be awarded for this course.

AP Calculus AB

Credits: 1	
Prerequisites: Pre-Calculus with Trigonometry is essential for success	Grade: 11,12

This is an introductory study of differential and integral calculus including applications in the physical, natural, and social sciences. Topics studied include functions and their graphs, limits and continuity, the derivative and applications, and the integral and applications. Students may elect to take the AP Calculus exam at the conclusion of the course at their expense.

AP Statistics

Credits: 1	
Prerequisites: Algebra 2 is essential for success	Grade: 11,12

AP Statistics is equivalent to an introductory, non-calculus-based college course in Statistics. Students analyze data using graphical and numerical techniques, plan and implement data collection, use probability to analyze distributions of data, determine appropriate models of statistical inference, and make decisions based on confidence intervals and tests of significance. Students may take the AP Statistics exam at the course conclusion at their expense.

SCIENCE

Biology 1/Lab

Credits: .5	
Prerequisites:	Grade: 9-12

This course introduces the students to and focuses heavily on the microscopic (small scale) aspect of biology and developing their skills in experimental design using the scientific method. The students will gain an understanding in the basics of chemistry, cellular structure and function, the flow of energy through studying photosynthesis and cellular respiration, and the importance of genetics in all biological fields.

Biology 2/Lab

Credits: .5	
Prerequisites:	Grade: 9-12

In this course, the students will study the macroscopic (large scale) components of biology. They will be introduced to the significance of heredity (how genes carry traits from parent to offspring and the impact those characteristics have on a species), the mechanisms of genetic change (mutations and how such changes lead to the diversity of biological organisms), and ecology, which will lead to an understanding and knowledge of humans' impact on the environment.

Physical Science 1/Lab

Credits: .5	Approved Physical Science Course
Prerequisites: Bridge Math or concurrent enrollment in Algebra 1 is essential for success	Grade: 9-12

Physical Science is designed as an entry level, introduction to the subjects of Chemistry and Physics. Critical thinking, measurement, mathematic conversions, atomic theory, the periodic table, and basic chemical reactions are explored. Taking Physical Science after passing either Chemistry, Physics, or both would be redundant and considered incorrect sequence of coursework.

Physical Science 2/Lab

Credits: .5	Approved Physical Science Course
Prerequisites: Bridge Math or concurrent enrollment in Algebra 1 is essential for success	Grade: 9-12

Physical Science is designed as an entry level, introduction to the subjects of Chemistry and Physics. Critical thinking, scientific formula solving, motion, energy, work, power, electricity, and magnetism are explored.

Chemistry/Lab

Credits: 1	Approved Physical Science Course
Prerequisites: Completion of Algebra 1 is essential for success	Grade: 10,11,12

Chemistry will consist of laboratory work, demonstrations, discussion and lecture with the following topics: metric measurement, conversions, atomic structure, nomenclature and formulas, periodicity, bonding, stoichiometry, thermochemistry, solutions, equilibrium, plus acids and bases.

SCIENCE CONTINUED

Anatomy & Physiology 1/Lab

Credits: .5	
Prerequisites: Biology 1 & Biology 2 are essential for success	Grade: 11,12

This course takes a closer look at the biological structure of humans, including things such as organs, muscles, and bones. The first semester includes anatomical terminology, the study of structure and function of tissues, and the integumentary, skeletal, and muscular systems. This course also involves a laboratory component, which includes anatomical studies using microscopy and dissection and the study of physiological concepts.

Anatomy & Physiology 2/Lab

Credits: .5	
Prerequisites: Biology 1 & Biology 2 are essential for success	Grade: 11,12

This course takes a closer look at the biological structure of humans, including things such as organs and blood. The second semester includes an in-depth study of the nervous and cardiovascular systems. This course also involves a laboratory component, which includes anatomical studies using microscopy and dissection and the study of physiological concepts.

Introduction to Organic Chemistry/Lab

Credits: .5	Approved Physical Science Course
Prerequisites: Chemistry / Lab is essential for success	Grade: 11,12

In this class, students will be introduced to the description of nomenclature, structural formulas, and reactions of organic compounds. Organic chemistry will include laboratory work, demonstrations, discussion and lecture.

Microbiology/Lab

Credits: .5	
Prerequisites: Biology 1 & Biology 2 are essential for success	Grade: 11,12

The practical laboratory techniques used in this class would be beneficial for any student considering a career in any lab or medical related field. In this hands-on class, students will spend the majority of their time in the laboratory on the study, identification, isolation, and control of microorganisms, with emphasis on bacteria.

Environmental Science 1

Credits: .5	
Prerequisites: Successful completion of a Physical Science course is essential to success	Grade: 11,12

Do you love the great outdoors? Are you passionate about the environment? Environmental Science is a course that enables students to develop an understanding of the natural environment and the environmental problems the world faces. Students will participate in projects that will explore opportunity to manage, conserve, and preserve our natural resources. This semester will establish foundational knowledge around environmental science, population dynamics and energy conservation.

Environmental Science 2

Credits: .5	
Prerequisites: Successful completion of a Physical Science course is essential to success	Grade: 11,12

Do you love the great outdoors? Are you passionate about the environment? Environmental Science is a course that enables students to develop an understanding of the natural environment and the environmental problems the world faces. Students will participate in projects that will explore opportunity to manage, conserve, and preserve our natural resources. This semester will center on human impact on the environment and explore various viewpoints and strategies around maintaining a healthy environment.

SCIENCE CONTINUED

Physics/Lab

Credits: 1	Approved Physical Science Course
Prerequisites: Completion or concurrent enrollment in Algebra 2 is essential for success	Grade: 11,12

Physics emphasizes the laws governing the workings of the Universe, from the smallest subatomic scales to transgalactic scales. Topics will include: kinematics, dynamics, gravitation, momentum, energy, oscillations, light, and an introduction to electricity, magnetism, and modern physics.

AP Chemistry/Lab

Credits: 1	Approved Physical Science Course
Prerequisites: Chemistry/Lab is essential for success	Grade: 11,12

AP Chemistry will include laboratory work, demonstrations, discussion, and lecture dealing with the basic principles of chemistry. This class will culminate in the AP Chemistry examination which may be taken at the end of the school year at the student's expense. If students score high enough on this test, they may qualify for up to a year's worth of Chemistry from most colleges or universities.

AP Physics 1/Lab

Credits: 1	Approved Physical Science Course
Prerequisites: Completion or concurrent enrollment in Pre-Calculus with Trigonometry is essential for success. Completion of Physics/Lab is recommended.	Grade: 11,12

AP Physics 1 is equivalent to a first-semester algebra-based college physics course, and it has a significant laboratory/project component. The course emphasizes Newtonian mechanics (including projectile motion, torque and angular momentum) as well as energy, power, mechanical waves (like earthquakes), and sound. It will introduce electric circuits.

AP Physics 2/Lab

Credits: 1	Approved Physical Science Course
Prerequisites: Completion or concurrent enrollment in Pre-Calculus with Trigonometry is essential for success. Completion of Physics/Lab is recommended.	Grade: 11,12

AP Physics 2 is equivalent to a second-semester algebra-based college physics course, and it has a significant laboratory/project component. It is mathematically rigorous. The course emphasizes fluid mechanics, thermodynamics, electricity, magnetism, optics, and atomic/nuclear/quantum physics.

AP Physics C: Mechanics/Lab

Credits: 1	Approved Physical Science Course
Prerequisites: Completion of Precalculus and Trigonometry is essential for success. Completion of Physics/Lab and/or AP Physics 1/Lab is recommended.	Grade: 11,12

The AP Physics C course utilizes Calculus, unlike AP Physics 1 or 2. It is akin to the first-year college physics course required by almost all majors in Science, Medicine, Engineering, and Technology. It is designed as a first physics course, taught alongside Calculus, but students may also take an introductory general Physics or AP Physics course to enhance their preparation. It focuses on the study of motion ranging from the flight of a javelin on Earth to the circular motion satellites orbits and rotational motion as in joints in the human skeletal system. It covers the causes of motion, namely forces and torques, in circumstances ranging from the human spine to bridge trusses, car engines to helicopter rotors, turbines to home run pitches. Furthermore, it covers momentum and energy, to simplify the analysis of collisions and the efficiency of systems. Finally, waves and oscillations ranging from earthquakes to a resonating violin string round out the course.

SOCIAL STUDIES

Native American Heritage

Credits: .5	
Prerequisites:	Grade: 9-12

This course introduces Lakota culture and its language. Students will also further explore other native cultures like; Pueblo, Northwest coast, Plateau and many more rich native cultures. Our emphasis will be the Lakota culture. Students will be able to identify products and practices to help you understand native cultural perspectives. Lakota will be presented through cultural experiences via music, videos, old recordings, and storytelling.

U.S. History 1

Credits: .5	
Prerequisites:	Grade: 10,11,12

This course explores history of the United States from pre-Columbus through Civil War and Reconstruction. Students will compare and contrast social, political, and economic forces that impacted America during this time period. Cause-and-effect understanding of historical moments is emphasized. Students will analyze primary and secondary documents that have shaped the founding of the United States.

U.S. History 2

Credits: .5	
Prerequisites:	Grade: 10,11,12

This course investigates history of the United States from post-Civil War movement westward through the Great Depression. Students will compare and contrast social, political, and economic forces that impacted the United States during this period. Cause-and-effect understanding of historical moments is emphasized. Students will analyze primary and secondary documents that have shaped America's modern era.

U.S. History 3

Credits: .5	
Prerequisites:	Grade: 10,11,12

This course examines history of the United States from World War II to the present. Students will compare and contrast social, political, and economic forces that impacted the United States during this period. Cause-and-effect understanding of historical moments is emphasized. Students will analyze primary and secondary documents that have shaped America's current era.

AP U.S. History

Credits: 1	
Prerequisites:	Grade: 10,11,12

This course is an academically rigorous course covering American history from pre-Columbus onward. Students develop analytical/critical thinking skills necessary to assess historical materials, weigh evidence, and interpret history in a meaningful way from varied perspectives. Class workload is substantial; preparation for the College Board National Exam is emphasized. This is essentially a college-level course with high scholastic expectations & responsibility for self. This course covers the content of US History 1, 2, and 3. Students taking this course will need an additional 0.5 credit of a Social Study elective in lieu of US History 3.

Psychology

Credits: .5	
Prerequisites:	Grade: 10,11,12

Psychology is the scientific study of behavior and mental processes. The course will emphasize the mind and its development, principles of learning, memory, sensation and perception, personality theories, emotion and stress, states of consciousness, motivation, and abnormal behavior.

SOCIAL STUDIES CONTINUED

AP Psychology (Hosted at Stevens)

Credits: 1	
Prerequisites:	Grade: 10,11,12

This course will guide students through an in-depth look at the relationship of biological and social factors on human development. Students will be required to conduct and/or review research, analyze data, and develop inferences analyzing real-life situations. Preparation for the College Board National Exam is emphasized. Interest in psychology is preferred; prior enrollment in psychology classes is a non-factor.

U.S. Government

Credits: .5	
Prerequisites:	Grade: 11,12

Students will study the Constitution, fundamentals of democracy, and U.S. government. The course will examine interactions of government institutions and the ways in which government institutions affect individuals and participation in the political process. Students will study public policy and how it relates to current events. This class emphasizes the rights, duties, and responsibilities of American citizenship.

AP U.S. Government & Politics

Credits: 1	
Prerequisites:	Grade: 11,12

This course is an in-depth study of the American political system. The course focuses on the foundations of American democracy, interactions between branches of government, civil liberties, and civil rights, American political beliefs and ideologies, and political participation. Students will be required to do substantial reading and writing; active participation in classroom discussion is expected.

Business Economics

Credits: .5		Approved CTE Course
Prerequisites: Geometry is essential for success		Grade: 11,12

This course provides an in-depth study of fundamental concepts, free enterprise trading practices, and the various players in the economic system. Topics include the production, marketing, and distribution of goods and services, as well as the roles of financial institutions and the government within the free enterprise system. Students will explore various careers within the free market system.

WORLD LANGUAGE

German is the third most commonly taught language globally and the fourth largest economy in the world. The German-speaking population has contributed substantially to literature, science, and the arts. German is the native language of almost 100 million people worldwide. With an estimated number of 44 million people, German Americans are the largest heritage group in the US! We have a sister city exchange program with Apolda, Germany which allows students to travel to Germany and/or host German students for two weeks. Learning German can be fun and easy because English and German share 60% of their vocabulary.

German 1, Beginning

Credits: 1	
Prerequisites:	Grade: 9-12

Learn German through fun, music, videos, and storytelling! Be marketable by completing two or more years of the same language to compete for jobs, colleges, and scholarships! The emphasis will be on developing language abilities in speaking, listening, reading, and writing on a variety of basic and everyday topics. You will be able to identify products and practices to help you understand global and cultural perspectives.

German 2, Intermediate

Credits: 1	
Prerequisites: German 1 is essential for success	Grade: 10,11,12

Your passport to global opportunities awaits! Be marketable with two or more years of the same language to compete for jobs, colleges, and scholarships! Expand your knowledge of language and culture with focus on enhancing abilities in speaking, listening, reading, and writing on a variety of new topics and past experiences. You will continue to discover products and practices to help you understand global cultural perspectives.

German 3, Advanced

Credits: 1	
Prerequisites: German 2 is essential for success	Grade: 11,12

Language and culture come to life! Students who apply themselves leave prepared to support communication for their pathway in the workforce or to test out of a university course. You will cultivate your self-expression via conversation and written communication as well as higher interpretive reasoning in the past, present, and future. You will make cultural comparisons in products and practices to understand perspectives around the world.

German 4, Accelerated (Hosted at Central)

Credits: 1	
Prerequisites: German 3 is essential for success	Grade: 11,12

Language creates your reality! Students can leave prepared to foster communication in the workforce or test out of university courses. You will master the skills to express yourself in daily discourse. You participate in spontaneous conversations while interpreting meaningful information about yourself, others, and the world around you! You will make cultural comparisons in products and practices to understand perspectives around the world.

WORLD LANGUAGE CONTINUED

The Indigenous peoples in the South Dakota region are comprised of the Lakota, Dakota, and Nakota bands that have combined to be what is known as the Sioux Tribe. This group, the Sioux Nation, is the third largest Native American tribe in the United States. Although many Lakota tiwahes and tiospayes have at least one or more Lakota speakers, the Lakota language is on the international language endangerment list. Furthermore, today many Lakota families and their extended families use English as their primary language. When students seek to learn the Lakota language, they gain a deeper insight into the culture and contribute to its preservation and evolution. Students who continue with the Lakota language may enhance their opportunities for employment as lawyers, translators, journalists, authors, artists, healthcare workers, or educators just to name a few. Indeed, the possibilities are endless. Lakota Language is a class that Native and non-native students are encouraged to take and whose lives can be enriched by taking it.

Lakota Language 1, Beginning (Hosted at Central)

Credits: 1	
Prerequisites:	Grade: 9-12

You will be introduced to Lakota language and cultural awareness. Our emphasis will be on developing novice proficiency in conversational language usage. Listening, reading, and writing skills are on a variety of basic and everyday topics. You will be able to identify products and practices to help you understand global and cultural perspectives. Lakota culture will be experienced via music, videos, old recordings, and storytelling.

Lakota Language 2, Intermediate (Hosted at Central)

Credits: 1	
Prerequisites: Lakota Language 1 is essential for success	Grade: 10,11,12

Completion of Lakota 1 is essential for your journey in learning Lakota. We will be practicing conversational Lakota by listening, reading, singing, and writing. You will be able to identify products and practices to help you understand Lakota cultural perspectives. Lakota culture will be experienced via music, videos, and storytelling. Now you have joined the revival of the Lakota community.

Bienvenidos...to the Spanish speaking world abroad and in the United States. Spanish is the native language of more than 437 million people world-wide, and more than 41 million people in the U.S. The United States has the second largest Spanish-speaking population in the world, after Mexico. The Hispanic culture is the largest minority in the United States. Studying Spanish helps students become more marketable in many career fields including healthcare, journalism, law enforcement, teaching, business, and many more. A background in Spanish can increase employment opportunities and enrich travel experiences and save money in College. 'Nos vemos'!

Spanish 1, Beginning

Credits: 1	
Prerequisites:	Grade: 9-12

Learn through fun, music, videos, and storytelling! Be marketable by completing two or more years of Spanish to compete for jobs, colleges, and scholarships. You will be able to speak, listen, read, and write about a variety of basic and everyday topics. You will be able to identify products and practices that help you understand global and cultural perspectives.

Spanish 2, Intermediate

Credits: 1	
Prerequisites: Spanish 1 is essential for success	Grade: 10,11,12

Your passport to global opportunities awaits! Be marketable by completing two or more years of Spanish to compete for jobs, colleges, and scholarships. You will expand on your knowledge of the language and culture. You will enhance your speaking, listening, reading, and writing abilities on a variety of new topics with the addition of past experiences. You will be able to continue to discover products and practices to help you understand global cultural perspectives.

WORLD LANGUAGE CONTINUED

Spanish 3, Advanced

Credits: 1

Prerequisites: Spanish 2 is essential for success

Grade: 11,12

Language and culture come to life! By applying yourself, you will leave prepared to support communication in the workforce or to test out of a college or university course. You will cultivate your self-expression via conversational and written communication as well as higher interpretive reasoning in the past, present, and future. You will make cultural comparisons in products and practices to understand perspectives around the world.

Spanish 4, Accelerated

Credits: 1

Prerequisites: Spanish 3 is essential for success

Grade: 11,12

Language creates your reality! You will be able to communicate in the workforce and to test out of a college or university course. Your fluency will increase dramatically by applying and expanding the skills required to express yourself in daily discourse. You will participate in spontaneous conversations while interpreting information about yourself, others, and the world around you!

OTHER OFFERINGS

Computer Applications (Hosted at Central)

Credits: .5	Approved CTE Course
Prerequisites:	Grade: 10,11,12

It is highly recommended that students with little to no computer skills take this foundational course. Students will be immersed in skills-based training to enhance their understanding of technology, software, and applications. This course will cover topics such as word processing, spreadsheets, presentations, and digital literacy. Students will gain career readiness skills in the areas of job applications, resumes, cover letters, and professional business communications. *This course is for credit recovery purposes only.*

Personal Finance

Credits: .5	Approved CTE Course
Prerequisites:	Grade: 11,12

Managing your personal finances can be an interesting and challenging task. This hands-on and engaging money-management course focuses on budgeting and financial management such as managing bank accounts, paying taxes, and retirement. Plus you learn the ins and outs of buying insurance, cars, and housing as well as managing your credit and identity.

Debate

Credits: .5	
Prerequisites:	Grade: 9-12

This course will ensure that students develop skills critical to college success. It will teach students to research with purpose and be able to understand and analyze information. Students will improve their speaking skills and will gain improvisational, argumentative, and rhetorical techniques. Students will work both independently and collaboratively to create unique speaking projects and debate national topics.

GRADtime 10

Credits: .25	
Prerequisites:	Grade: 10

GRADtime is an intentional time when students will learn skills to be successful in high school and beyond. Students will learn about helping him/herself and others, test-taking, and anxiety. Students will explore their interests, skills, work values, and career opportunities. Students will also learn about course planning, graduation requirements, types of diplomas, and earning college credit in high school. *This course is required for tenth graders and is pass/fail.*

GRADtime 11

Credits: .25	
Prerequisites:	Grade: 11

GRADtime 11 is an intentional time throughout the school year when students will learn skills to be successful in high school and beyond. Students will learn about college and career assessments, test-taking skills, problem-solving and conflict resolution, growth mindset, and time management as well as explore career and college options. Students will also learn about graduation requirements and the different types of diplomas, which will guide their decision-making when selecting classes. *This course is required for eleventh graders and is pass/fail.*

GRADtime 12

Credits: .25	
Prerequisites:	Grade: 12

GRADtime 12 is an intentional time throughout the school year when students will learn skills to be successful in high school and beyond. Students will learn about options for life after high school, how to take the needed steps for their post-high plan, and ways to fund their future. Students will also learn about problem solving and self-advocacy, goal setting, resiliency, and finding a life balance. Additionally, students will celebrate their post-high plan and review graduation events and protocols and complete a senior exit survey. *This course is required for twelfth graders and is pass/fail.*

OTHER OFFERINGS CONTINUED

Journalistic Writing (Hosted at Central)

Credits: .5	
Prerequisites:	Grade: 10,11,12

Students learn to gather and write news, commentary, and feature stories for the school newspaper. Projects introduce students to multimedia publishing technologies.

Office Aide

Credits: .5	
Prerequisites:	Grade: 10,11,12

Students will assist office secretaries. Duties will include clerical tasks, material organization, and running communication throughout the building. Students must demonstrate excellent attendance and be able to interact with students and adults in a professional manner. *This course is taken as a Pass/Fail course. Only one (1) credit of aide service can be applied toward graduation.*

Teacher Aide

Credits: .5	
Prerequisites:	Grade: 10,11,12

Students work with individual teachers, helping to prepare classroom materials and assist other students. Excellent attendance is required. *This course is taken as a Pass/Fail course. Only one (1) credit of aide service can be applied toward graduation.*

CAPSTONE EXPERIENCES

Capstone opportunities provide students with the opportunity to become more specialized in their pathway by enrolling in a Capstone Experience or Capstone Course, including dual enrollment, industry certifications, and specialized courses. Capstones allow students the opportunity to consolidate and apply learning from their Academy Courses into a meaningful and relevant career-connected experience.

Youth Internship

Credits: .5	Approved CTE Course
Prerequisites:	Grade: 11,12

Preparing for success after high school graduation is about developing skills that will help you succeed in college, career, and life. This course provides opportunities both in and out of the classroom to develop and apply career skills. In this course you will analyze personal aptitudes and abilities, apply career development skills, complete a youth internship/job shadow, and develop a postsecondary plan. Transportation will be the responsibility of the student.

Youth Apprenticeship

Credits: .5	Approved CTE Course
Prerequisites:	Grade: 11,12

Students gain work experience with a registered sponsor. An apprenticeship is designed for students to acquire hands-on job skills both in the classroom and through a career site. Students earn high school credit as well as hours towards a registered apprenticeship. Students can continue their apprenticeship to earn a nationally recognized credential.

Entrepreneurship Experience

Credits: .5	Approved CTE Course
Prerequisites:	Grade: 11,12

Students develop the skills needed to establish a business. Through hands-on projects, students gain skills to be successful in the workplace. Students study, research, and prepare a business plan that illustrates the practicality of their particular business. Both school and business mentors assist students in the process of developing a business plan.

Senior Experience

Credits: .5	Approved CTE Course
Prerequisites:	Grade: 11,12

Students demonstrate what they know and what they can do, based on a personal proposal. Students will be expected to conceive a plan of action that incorporates the following four elements: a product, research component, portfolio, and presentation. Taking students out of their comfort zones, preparing them for life beyond high school.

Service Learning

Credits: .5	Approved CTE Course
Prerequisites:	Grade: 11,12

Students will explore community needs, identify their personal strengths and talents, and implement a service project that mutually benefits the student and community. This course will be more than community service or volunteerism. Students will work directly with the Youth Engagement Coordinator who will provide connections to resources and support students in the development, implementation, and reflection of their service plan. Transportation will be the responsibility of the student.

REGISTRATION & COURSE SELECTION POLICIES & PROCEDURES

REGISTRATION

Course Registration

Course registration for the following school year will be held by Central and Stevens High Schools during the spring semester. Students are asked to select the courses they will take during the next school year. Course availability is based on student course requests and staffing.

Students must give careful consideration to their course planning and should consult with counselors, parents, and/or teachers. Parent/guardian involvement is recommended prior to the student finalizing course registration.

Personal Transfers/Open Enrollment

Personal Transfer requests allow residents of the Rapid City Area School District to transfer their student to another school within the district as described in [Policy JECC](#) and [Procedure JECC-P](#). Applications must be filed with the Assistant Superintendent of Educational Services at the times designated within Procedure. Applications will be reviewed in the order received and approval is subject to program and/or space availability.

Supplementary Materials Objection Form

The Rapid City Area School District encourages students to read, view, and listen to a variety of supplementary materials. All supplementary materials have been reviewed and approved by practicing teachers who consider the materials to be valuable and pertinent to the themes and ideas addressed within the content of the class. Because some materials contain content of a sensitive nature, a parent may request that an alternative assignment/selection be offered to the student.

For a copy of the Supplementary Materials Objection Form, please see Appendix A.

COURSE SELECTION PROCEDURES

Adding a Class

At Central and Stevens High Schools, courses may be added on a space available basis during the first five (5) days of a new semester.

Students are responsible for making up any schoolwork missed by the late addition of a class to their schedule.

Course Cancellations

Course offerings not having sufficient enrollment after registration will be discontinued for the next school year.

Course Load

All students in grades 9, 10, and 11 are required to enroll in a minimum of six (6) courses per semester. Students in grade 12 must enroll in courses needed to graduate and additional electives are recommended for college and career readiness goals. Students participating in extracurricular activities must be enrolled in a minimum of two (2) units of credit and have passed two (2) units of credit the proceeding semester as per the SD High School Activities Association requirements.

Course Retake

Students are allowed to take a course over. Both grades will remain on the transcript. However, only the highest grade will be calculated into the cumulative Grade Point Average (GPA).

Course Retake grade entry is the responsibility of the student. This process is not done automatically.

Students wishing to replace a failed or unsatisfactory grade that is figured into the GPA must retake the same course. Upon successful completion of the repeated course, students must submit a Grade Replacement Form to the records secretary. The records secretary will then adjust the weight of the failed or unsatisfactory grade so that it will not be reflected in the computation of the cumulative GPA.

REGISTRATION & COURSE SELECTION POLICIES & PROCEDURES CONTINUED

Dropping a Class After Registration

Since staffing is based on students' course selections, dropping a class after registration will only be done to accommodate extenuating circumstances. Students who are dropped administratively from a course will receive a Withdraw Fail (WF), which is recorded on transcripts for the entire course (semester or year), and it will figure into their GPA as a zero. Students who elect to not attend a course and are subsequently dropped will not receive credit and will receive a WF, which will figure into their GPA.

Dual Enrollment Policies

Any student wishing to participate in dual enrollment must follow the appropriate school and postsecondary institution admissions and enrollment procedures.

Student understands that there is a possibility that their future college or university may not accept their dual enrollment course credits. It is the student's responsibility to check with any postsecondary institution they are considering attending after high school to inquire about transfer of credit.

Student understands that dual enrollment grades will be entered onto their high school transcript and will be utilized in calculating GPA, class rank, and factored into eligibility requirements for athletics and activities.

Student understands that they are fully responsible for completing the requirements of all dual enrollment courses. This would include attending dual enrollment classes even when the home high school classes are not in session.

Student understands that there is a possibility that their eligibility to obtain Student Federal Financial Aid in the future may be impacted by their participation in dual enrollment coursework.

Dual enrollment coursework could have an impact on eligibility for students that intend to become certified by NCAA Clearinghouse. Students are highly encouraged to visit web3.ncaa.org/ecwr3/ or contact the Eligibility Center at 877-262-1492 to ensure eligibility is not compromised.

Course Selection Procedure Note: Student schedules will be changed only to balance class sizes, to allow students to repeat a failed course, and/or to allow students to meet graduation, college, and scholarship requirements. Special circumstances will be handled at the discretion of the building principal.

Course Selection Procedure Note: Unless otherwise specified, courses may be taken only once for credit.

COURSE SELECTION POLICIES

Accelerated Learner Services

District acceleration practices ensure that students have their academic needs addressed. Per [District Code IGBB](#), RCAS provides acceleration for students who have demonstrated high performance in core academic areas, have unique academic cognitive and social needs, and demonstrate adequate prior knowledge of academic content within current grade-level.

Earning College Credit in High School

The Rapid City Area School District believes that high school students need to be continually challenged in order to maintain their academic interests. There are a number of different options for earning college credit while in high school and students should select the option that supports their college plans and/or career interests. [District Code ICCF](#) outlines the implementation of the district's Advanced Placement program and Dual and Concurrent Enrollment credit partnerships with South Dakota Board of Regents and the Technical College institutions.

Advanced Placement and Dual Credit courses will be weighted on a 5.0 scale per [District Code IKA-P](#).

Grading System

Per [District Code IKA-P](#), students will earn letter grades according to the following scale:

Percentage	Grade Earned
90 - 100	A
80 - 89	B
70 - 79	C
60 - 69	D
Below 60	F

REGISTRATION & COURSE SELECTION POLICIES & PROCEDURES CONTINUED

Scholastic Class Rank

Class rank will be based on the final grades in all subjects after the 1st semester of a student's senior year. Students who have maintained the following Grade Point Averages (weighted GPA) will be recognized as:

<u>Class Rank</u>	<u>GPA</u>
Summa Cum Laude	3.8
Magna Cum Laude	3.5
Cum Laude	3.2

Graduation Requirements

Credit Equivalents

Per District Code IKF, one (1) unit of high school credit is defined as the amount of credit earned in a year-long class. One-half (.5) unit of high school credit is the amount of credit earned in a semester class. To learn more about credit equivalents, please reference [District Code IKF](#).

For Dual Credit, three (3) or four (4) semester hours of college credit earned is equal to one-half (.5) high school credit. To learn more about dual credit equivalents, please reference [District Code IKF-P](#).

Reading Requirement

Students in grades 9 through 12 who have not met the district's reading requirement must continue to enroll in reading support until the 9.0 grade level reading equivalency is met, unless the IEP Team has determined this course is not required. Students must demonstrate the ninth-grade level of reading proficiency on a district adopted standardized test in order to graduate. Students on an Active IEP may be allowed to graduate without this course as determined by the IEP Team. To learn more about this reading requirement, please reference [District Code IKF](#).

Early Graduation

Early graduation allows a student to graduate from high school in three-and-a-half years or less. This is accomplished by increasing the amount of coursework undertaken each year of high school. The diploma will be awarded at the conclusion of the school year.

Student Classification

Students are classified according to number of credits earned, not number of years in high school.

Classification

Sophomore - minimum of five (5) credits and is enrolled in his/her second year of high school, whose high school class is within three (3) years of graduating

Junior - minimum of eleven (11) credits and is enrolled in his/her third year of high school, whose high school class is within two (2) years of graduating

Senior - minimum of sixteen (16) credits and is enrolled in his/her fourth year of high school, whose high school class is within one (1) year of graduating

Online/Distance Learning

In receiving high school credit for online or distance learning courses, RCAS has established by [District Code ICCB](#). This allows a student enrolled in an approved distance learning course or an online course through the South Dakota Center for Virtual Education to receive high school credit for the course completed, provided the course meets the identified parameters.

Annual Public Notice of Non-Discrimination in Career & Technical Education

Rapid City Area School District does not discriminate based on race, color, national origin, sex, age, or disability in admission of its programs, services, or activities, in access to them, in treatment of individuals, or in any aspect of their operations. Rapid City Area School District Career and Technical Education (CTE) department does not discriminate in enrollment or access to any of the programs available.

REGISTRATION & COURSE SELECTION POLICIES & PROCEDURES CONTINUED

Notice of Non-Discrimination

The Rapid City Area School District 51-4 does not discriminate based on race, color, national origin, sex, disability, or age, in its programs and activities. This Notice of Non-Discrimination is provided pursuant to federal laws and regulations, including those implementing Title VI, Title VIII, Title IX, the Americans with Disabilities Act (ADA), Section 504 of The Rehabilitation Act of 1973, and the Age Discrimination Act.

This Notice is provided to inform all faculty, staff, students, parents, and guests that Rapid City Area School District is committed to the principle of equal opportunity and does not discriminate on the basis of race, color, religion, sex, age, sexual orientation, national origin, disability, or status as a disabled or Vietnam-era veteran in its programs, activities, or conditions of employment.

Title VI of the Civil Rights Act of 1964 prohibits discrimination based on race, color, or national origin in any program or activity receiving federal financial assistance. Programs and activities that receive federal financial assistance from the United States Department of Education are covered by Title VI. The Office for Civil Rights of the United States Department of Education is the agency charged with enforcing Title VI.

Age Discrimination Act of 1975 protects people from discrimination based on age in programs or activities receiving federal financial assistance. The United States Equal Employment Opportunity Commission is the agency charged with enforcing the Age Discrimination Act of 1975.

Title IX of the Education Amendments of 1972 prohibits discrimination based on sex in education programs or activities and extends to employment and admission to institutions that receive federal financial assistance. The Office for Civil Rights of the United States Department of Education is the agency charged with enforcing Title IX.

Website Accessibility

We continually strive towards compliance with RCAS Non-Discrimination Policies, Web Content Accessibility Guidelines (WCAG), Americans with Disabilities Act (ADA), World Wide Web Consortium (W3C), as well as Section 508 policy regarding web accessibility. RCAS is committed to providing accessibility to all users, and we will continue to make improvements to our website to ensure that it meets the requirements of these laws and standards. If assistance is needed in accessing material on any of the RCAS websites, please contact our Service Desk at (605)394-6629.

Questions, complaints, or requests for additional information regarding the laws may be forwarded to the designated compliance coordinator: Director of Human Resources located at the Rapid City Education Center, or phone (605)394-4014.

The District's anti-discrimination, anti-harassment, and anti-retaliation policies and grievance procedures may be accessed electronically via [District Code AC](#) or in hard-copy format at the District's Human Resources Office.

For further information about anti-discrimination laws and regulations, or to file a complaint of discrimination with the Office for Civil Rights (OCR) in the U.S. Department of Education, please contact OCR at Lyndon Baines Johnson Department of Education Bldg., 400 Maryland Avenue, SW, Washington, DC 20202-1100, Telephone 800-421-3481 (voice), or 800-877-8339 (telecommunication device for the deaf, or TDD), or 202-453-6012 (fax), or OCR@ed.gov (email).

GLOSSARY

Academy: An academy is a small learning community organized into one or more pathways that includes career-connected learning and provides students with increased personalized attention. Teachers within the academy are given valuable collaboration time to develop relevant learning instruction.

Academy Engage Course: An Academy Engage Course will be taken after completion of the Freshman Seminar Course as an introduction to a student's academy of choice.

Academy Experience Course: An Academy Experience Course allows students to consolidate and apply learning from their Academy Explore and Engage Courses into a meaningful and relevant career-connected experience.

Academy Explore Course: An Academy Explore Course, Freshman Seminar, will be taken to connect a student's learning in the Academy Engage Course with preparation for a deeper understanding of their chosen pathway.

American College Test (ACT): The ACT is a national college admissions examination that measures scholastic development and consists of subject area tests in English, Mathematics, Reading, and Science. Many colleges and universities require a student's ACT scores as part of the college admissions process.

Armed Services Vocational Aptitude Battery (ASVAB): The ASVAB is a timed multi-aptitude test that measures developed abilities and helps predicts future academic and occupational success in the military.

Associate Degree: A two-year degree that prepares you for a specific career or for further education.

Bachelor's Degree: A four or five-year program that provide in-depth, specialized knowledge in a major or field of study.

Capstone: Capstone experiences will allow students the opportunity to consolidate and apply the learning from their high school coursework into a meaningful and relevant career-connected experience. This student-driven experience is based on the student's chosen pathway and is designed to help guide the student's college, career, and life readiness plan.

Career & Technical Education (CTE): CTE provides students of all ages with the academic and technical skills, knowledge, and training necessary to succeed in future careers and to become lifelong learners.

Career & Technical Student Organizations (CTSOs): CTSOs enhance student learning through contextual instruction, leadership and personal development, applied learning, and real-world application.

Certificate: Generally, a one-year program that leads directly to entry-level employment in a specific occupation.

College: The term "college" means any educational training opportunity beyond high school. This may include credentials, certificates, military service, and/or college - whether that is a one-year, two-year, and/or four-year degree program.

College, Career, & Life Readiness: College, Career, & Life Readiness means the academic knowledge, skills, and attributes needed for a student to make a successful transition to careers and further education. It includes a progression of knowledge and skills necessary to be prepared for the full range of postsecondary opportunities.

College, Career, & Life Readiness Plan: A plan that leads graduates to a successful transition beyond high school including postsecondary education and training, careers, and life responsibilities.

Community College: A two-year college that serves the residents of a local or regional area.

Double-Dipping: Attempting to apply one course to two graduation requirements.

FAFSA4caster: The FAFSA4caster gives students a free estimate of their eligibility for federal student aid. This information helps families plan ahead for college.

FERPA: The Family Educational Rights and Privacy Act (FERPA) is a federal privacy law that gives parents certain protections with regard to their student's education records, such as report cards, transcripts, disciplinary records, contact and family information, and class schedules. Parents have the right to review their student's education records and to request changes under limited circumstances. To protect a student's privacy, the law generally requires schools to ask for written consent before disclosing their personally identifiable information to individuals other than the student.

Financial Aid: Money awarded to students to help them pay for postsecondary education. Aid is given as loans, grants, scholarships, or work-study. Some forms of financial aid are required to be repaid after graduation.

Free Application for Federal Student Aid (FAFSA): A free financial aid application form used to determine eligibility for federal financial aid money for college.

Freshman Academy: A small learning community with a network of teachers focused on helping students make a successful high school transition and future academy and pathway selection. The Freshman Academy provides coursework in core content areas, elective opportunities, and career and academy exploration. Also referred to as the Academy Explore Course.

Grade Point Average (GPA): The average obtained by dividing the total number of grade points earned by the total number of credits attempted.

GRADtime: A regularly scheduled opportunity for students to engage in advisory content in all four years of high school. GRADtime will provide academic, social-emotional, and college, career, and life readiness skills needed to fulfill the RCAS Profile of a Graduate.

Industry Recognized Credentials: Industry recognized credentials are a way for students to demonstrate mastery of knowledge and skills. With credentials, students can increase job prospects and options for postsecondary education as well as increase their marketability to employers.

Pathway: A pathway is interconnected academic and elective courses organized around a broad career or subject theme. Each pathway is integrated with work-based learning as well as connections to postsecondary education, training, and/or apprenticeship programs.

PreACT: The PreACT simulates the ACT testing experience within a shorter test window on all four ACT test subjects.

PSAT/NMSQT: An assessment developed by The College Board to determine college readiness for students in grades 9-11. Students are assessed in the areas of critical reading, mathematics, and written expression in preparation for the SAT I: Reasoning Test. Students who obtain a qualifying score will be invited to apply for the National Merit Scholarship program.

RCAS Profile of a Graduate: The RCAS Profile of a Graduate embraces the academic knowledge, skills, and attributes needed for a student to make a successful transition to college, career, and life responsibilities.

Resume: A brief written account of personal, educational, and professional qualifications and experience.

SAT: The SAT is a standardized test widely used in college admissions developed by the College Board. The test is intended to assess a student's readiness for college in Mathematics and critical Reading and Writing.

Scholarship: A form of financial aid that does not have to be repaid or earned through employment. Scholarship usually refers to an award based on academic merit; however, scholarships are also awarded for performing community service, leadership, talent, etc. In some instances, financial need may also be required.

SDMyLife: SDMyLife is an online program assisting students with navigating the career development process. Students can take interest and ability assessments, explore careers, research postsecondary education and training options, study with Method Test Prep, and find out about scholarship opportunities.

Technical College: A college that specializes in teaching techniques and technical skills required for high skilled jobs.

Transcript: An official copy of a student's educational record.

University: A university is made up of an undergraduate division which confers bachelor's degrees and a graduate division which comprises a graduate school and professional schools each of which may confer master's degrees and doctorates.

Work-Based Learning: Work-based learning connects students with industry to engage in real-world experiences that bridge academic, technical, and employability skill development to help students become college, career, and life ready.



SUPPLEMENTARY MATERIALS OBJECTION FORM

The Rapid City Area School District encourages students to read, view, and listen to a variety of supplementary materials. All supplementary materials have been reviewed and approved by practicing teachers who consider the materials to be valuable and pertinent to the themes and ideas addressed within the content of the class. Because some materials contain content of a sensitive nature, a parent may request that an alternative assignment/selection be offered to the student.

Questions regarding the approved supplementary materials used should be directed to the individual classroom teacher and/or building principal. This form must be signed and dated by the parent/guardian and returned to the teacher if the parent is requesting an alternative assignment for the student.

I **do not** wish (student name) _____ to participate
in the use of or viewing of (title) _____
in (teacher) _____ 's class.

Signature of Parent/Guardian: _____ Date: _____

I understand that my student is responsible for completing an alternative assignment.