

2023-2024 Course Catalog



HIGH SCHOOL

**Career & Technical Education
Cambridge Academy**

Pathways to Success

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Kingman High School Cambridge Academy



Cambridge Assessment International Education

Cambridge International School

Cambridge education strives to develop learners who are:

- **Confident** in working with information and ideas - their own and those of others.
- **Responsible** for themselves, responsive to and respectful of others.
- **Reflective** as learners, developing their ability to learn.
- **Innovative** and equipped for new and future challenges.
- **Engaged** intellectually and socially, ready to make a difference.

Kingman High School is excited to offer the Cambridge Academy. In the new, constantly changing, global economy students will need the knowledge and skills that are necessary to navigate the complexities of college and career in today's global society. These include: an appreciation for cultural differences, an ability to understand multiple perspectives, comfort with change, and the capacity for highly critical and analytical thinking. KUSD Cambridge classrooms support students in their journey of achieving the skills necessary to be competitive in the global workforce. Innovative approaches to teaching and learning are hallmarks of the Cambridge Academies at KUSD. **For more information on Cambridge visit:** kUSD.org/programs/cambridge/ or cambridgeinternational.org

Send all inquiries to cambridge@kUSD.org

WHY CAREER AND TECHNICAL EDUCATION?

Expand Student Options

- Show how reading, math, and science are used in careers by relating academic subjects to the real world.
- Start college studies while in high school through dual enrollment with a community college .
- Add a new dimension to learning with “hands-on,” in addition to “eyes-on” activities—a more effective way of learning.

Enhance Success in School

- Career and Technical programs teach the Arizona Academic Standards needed to be successful on the state graduation exam while enhancing students’ enjoyment of school.
- Academic Standards may come easier when taught in a Career and Technical program.

Provide College Prep and Career Prep

- Career and Technical education blends rigorous academic content with technical skills in a hands-on setting so students find greater meaning and greater success in their studies.
- Career and Technical programs meet the entrance requirements of four-year colleges and universities while including the skills employers are looking for.

Challenge Students to Think

- Career and Technical students are challenged to apply theoretical knowledge—learned in academic and technical classrooms— to practical problems in laboratories or at worksites.
- This is a basic lifetime skill.

Test Career Interests Before College

- Career and Technical Education provides a career focus as insurance for success in post secondary education . Before students invest in college, they can test their interest in areas such as health care, culinary arts, information technology, technical drawing, hospitality, teaching, child care, agriculture, or business—just to mention a few.

Help Pay for College

- Technical skills focus on a specific career area help students obtain better, higher-paying jobs to meet the cost of college education.

Broaden Lifelong Work and Education Options

- Career and Technical programs prepare students for well-paying satisfying careers even in non-traditional fields.

Acquire Life Skills That Apply to Any Career

- Personal skills—such as self-confidence, self-awareness, good work habits, practical problem solving, punctuality, reliability, and teamwork—are essential in any career.
- Career and Technical programs instill the desire to learn because every student feels a sense of ac-

WHAT ARE CAREER PATHWAYS?

Career paths are clusters of occupations that are combined together because many of the people in them share similar interests, abilities, and talents.

Selecting a career path provides you with an area of
FOCUS

along with **FLEXIBILITY**

and a **VARIETY** of careers to pursue.

**Although people change jobs many times,
they seldom change from one pathway to another.**

EXPLORE THE SIX CAREER PATHWAYS

ARTS / COMMUNICATIONS / HUMANITIES

Occupations in this career pathway are related to the creative, visual, craft and performing arts. These include architecture, graphic, interior and fashion design, writing, film, fine arts, journalism, languages, media, advertising, public relations, and music.

ENGINEERING / INDUSTRIAL SYSTEMS

Occupations in this career pathway are related to the technology necessary to design, develop, install and maintain electrical, mechanical and structural systems. These include engineering, manufacturing, construction, and related technologies.

SOCIAL / HUMAN SERVICES

Occupations in this career pathway are related to hospitality, personal and customer services, social services, legal services, and protective services. These include education, government, law and law enforcement, leisure and recreation, military, religion, childcare, social services and personal (beauty) services.

BUSINESS SYSTEMS

Occupations in this career pathway are related to business occupations, administration, management, marketing and sales. These include entrepreneurship, sales, marketing, computer/information systems, finance, accounting, personnel, economics and management.

HEALTH SERVICES

Occupations in this career pathway are related to the diagnosis and treatment of diseases, disorders and injuries, laboratory technology and therapy. These include medical practice, research, laboratory technology, physical, occupational and speech therapies, disease prevention, alternative medicine, and veterinary science.

NATURAL RESOURCES

Occupations in this career pathway are related to the natural sciences, agriculture and the environment. These include agricultural sciences, earth sciences, environmental sciences, fisheries, forestry, horticulture, and wildlife.



Career & Technical Education

Agriscience

Reinforced Academics:

English, Math, Science, **Science credit available*

Student Organizations:

FFA—azffa.org

Certification Opportunities:

OSHA

Scholarship Opportunities:

Available through FFA

<u>Title</u>	<u>Grade Level</u>	<u>Credits per Semester</u>
Ag Biology A/B Students in this Agriculture related course will learn how agriculture plays a role in the U.S. and world economy. Students will get "hands on" instruction in preparation in the areas of cell respiration & growth, genetics, taxonomy, microorganisms, animal health, animal nutrition, animal growth and evolution. This course is designed to meet all AZ Biology Standards. This is a Career and Technical Education class which requires student membership in the FFA, an Agriscience Youth Leadership organization and for students to have an SAE (Supervised Agriculture Experience) which involves opportunities for students to learn how to run businesses or participate in careers in the diverse Agriculture Industry. **Lab Fee: \$20/semester	9-12	1/2 Credit
Advanced Ag Biology A/B This course is designed to introduce students to the fundamentals of animal anatomy, physiology, genetics, reproduction, growth, nutrition, health, and agribusiness principles. This is a Career and Technical Education class which requires student membership in the FFA, an Agriscience Youth Leadership organization, and for students to have an SAE (Supervised Agriculture Experience) which involves opportunities for students to learn how to run businesses or participate in careers in the diverse Agriculture Industry. Prerequisite: Ag Biology **Lab Fee: \$20/semester	10-12	1/2 Credit
<p><i>Successful completion of Ag Bio <u>and</u> Adv. Ag Bio can count towards the graduation requirement in Biology</i></p>		
Ag Welding 1 & 2 This course is designed to expose students to the design, fabrication and assembly of metal products and their marketing in today's high-tech marketplace. It also introduces MIG welding. Hands-on activities include metal fabrication, welding and projects involving welding, production assembly, and project construction. *Limited enrollment. **Lab Fee: \$20/semester	10-12	1/2 Credit
AgriScience 1 - A/B This course deals with advanced science principles in agriculture. Plant and Animal Biological concepts are further explored and projects related to course content are demonstrated through SAEs, including live shows, science fairs, and independent research. Continued leadership practice through FFA are advanced. FFA enrollment is automatic. Prerequisite: Advanced Ag Biology **Lab Fee: \$20/semester	11-12	1/2 Credit
AgriScience 2 - A/B A capstone-type course for students advancing their understanding of Ag Science, Ag Technology, Ag Leadership and or Ag Communications. Students will be very active in leading FFA activities, attending FFA conferences, and successful CDE competitions. College and Career preparation is emphasized. FFA enrollment is automatic. Prerequisite: AgriScience 1 **Lab Fee: \$20/semester	12	1/2 Credit

Career & Technical Education



Business Management

Reinforced Academics: English, Math, Science, Technology **Math credit available*
Student Organizations: FBLA - www.fbla-pbl.org
Certification Opportunities: Microsoft Office User Specialist, MCC Cyber Security & Network Support, A+
Scholarship Opportunities: Available
College Credit: CIS 110, CIS 143, CIS 131, ACC 125

<u>Title</u>	<u>Grade Level</u>	<u>Credits per Semester</u>
Business Management Explore the exciting challenges of management! Students will be introduced to the skills necessary to be an effective manager and leader. Students will explore fundamental business concepts and career opportunities. Virtual business on the computer, field trips, guest speakers, projects, and internet research are all part of this exciting class!	9-12	1/2 credit
Business Management 2 Learn about customer buying habits and the sales world. Determine how to purchase, display, promote and finance products. Students will also complete an accounting cycle, analyze financial statements, and make educated business decisions by learning basic accounting principles and practices. Students will also utilize computer skills in the MS Office Suite, Internet, graphics, and business-related software for advanced document creation. Students are expected to make presentations, use email appropriately, and participate in class. <i>Prerequisite: Business Management 1 or enrolled concurrently</i>	9-12	1/2 Credit
Advanced Store Mgmt. & Marketing This course is recommended for students who are preparing to enter the working world or going on to college and are interested in business leadership. Students will participate in working in the student-run school store with an emphasis on management (both leadership and financial). The students run the Student Store! Management, operations, marketing, and finance experience! Product planning/pricing, inventory control, stocking shelves, running the register, counting money-accounting/bank deposit, flyers/ads/website promotion, scheduling, training others, implementing procedures and more! This course is repeatable for credit with instructor approval. <i>Prerequisite: Business Management 1, Business Management 2</i>	11-12	1/2 Credit
Computer Info Systems—Dual Credit CIS110 An introduction to hardware, software, data structures, information system analysis, and other topics regarding computer information systems. Content covers historical and contemporary topics with emphasis on database and spreadsheet packages for solving problems from a business perspective. Earn 3 college credits at MCC for CIS110. This is a required general education class for all in-state universities.	11-12	1/2 Credit



Continuing education credits and certifications available through WAVE CTED programs, see pages 16 & 17

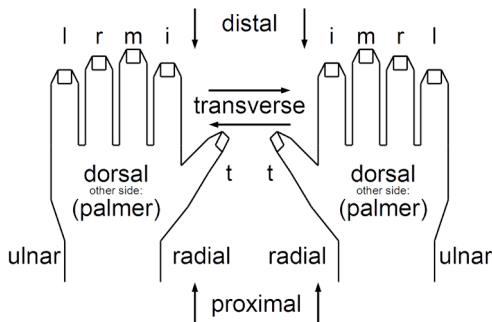
Pathways to Success



Nursing

<p><u>Reinforced Academics:</u> <u>Student Organizations:</u> <u>Certification Opportunities:</u> <u>Scholarship Opportunities:</u> <u>College Credit:</u></p>	<p>English, Math, Science HOSA - www.azhosa.org First Aid, CPR, CNA Available NUR 115 Certified Nursing Assistant Certification</p>
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<u>Title</u>	<u>Grade Level</u>	<u>Credits per Semester</u>
<p>Medical Foundations A/B Students will learn basic medical root words, prefixes, and suffixes, which will be highly important in their chosen medical professions. They will also study cytology, integumentary system, skeletal system, muscular system, digestive system, and special senses. During second semester, they will study the nervous system, cardiovascular system, respiratory system, lymphatic system, urinary system, endocrine system, and reproductive system. Prerequisite: Biology (May be concurrent). Medical Foundations A MUST be taken before Medical Foundations B</p>	9-12	1/2 Credit
<p>Occupations Students will study health care facilities and various medical occupations, develop workplace communication skills, learn basic job skills, and experience job shadowing. Students will set wellness, occupational and further educational goals.</p>	9-12	1/2 Credit
<p>Culinary Nutrition This course is a study of human nutrition and will help you focus on your personal nutrition and the effects of diet on the health of the individual. This semester class covers intro to nutrition, dietary planning, portion sizes, nutrient groups and nutrition throughout the life cycle. Natural foods vs. process foods and disease management.</p>	9-12	1/2 Credit



Continuing education credits and certifications available through WAVE CTED programs, see pages 16 & 17



Sports Medicine

Reinforced Academics:	English, Math, Science <i>*Science credit available</i>
Student Organizations:	HOSA - www.azhosa.org
Certification Opportunities:	First Aid, CPR
Scholarship Opportunities:	Available
College Credit:	NA

<u>Title</u>	<u>Grade Level</u>	<u>Credits per Semester</u>
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<p>Sports Medicine A/B This course is designed for students interested in learning how to prevent, assess, and manage athletic injuries. Students interested in pursuing a career such as athletic trainer, physical therapist, nurse, EMT, fireman, police officer, coach, personal trainer or any other sport or medical related field would benefit from the knowledge and skills learned. Emphasis is placed on human anatomy and physiology and the fundamentals of health related careers. Students will be instructed on theory with practical applications as allowed. <i>Prerequisite: Biology (May be concurrent)</i></p>	10-12	1/2 Credit
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<p>Advanced Sports Medicine A/B A continuation of MED0262. This course will focus more on practical applications of the knowledge gained in MED0262 with supplemental lectures. This course requires participation after school and/or on weekends as necessary. <i>Prerequisite: Sports Medicine A/B</i></p>	11-12	1/2 Credit
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<p>Lab Assistant – Job Shadow Live job shadow with local health care professionals in various fields including: PT, AT, Personal Trainer and others as available. Students will apply knowledge gained from MED0261/0262 and MED0361/0362 in hands-on activities when working with AT on campus. When off campus with local professionals, will be asked to perform tasks on an as-needed basis and as is allowable by supervisor. Students will gain workplace knowledge and experience in real world health careers. Students will rotate with local providers each quarter, and will be with providers 2 days per week, and with AT the other two days. Students must apply during Junior year and complete application and interview process. Only 2 students per school will be accepted. <i>Prerequisite: Sports Medicine A/B AND Advanced Sports Medicine A/B</i></p>	10-12	1/2 Credit
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Career & Technical Education



Early Childhood Education

Reinforced Academics:	English, Math, Science
Student Organizations:	FCCLA - www.azfccla.org
Certification Opportunities:	CDA
Scholarship Opportunities:	Available
College Credit:	NA

<u>Title</u>	<u>Grade Level</u>	<u>Credits per Semester</u>
Early Childhood Professions 1 A/B Start today to make your life extraordinary by learning to work with small children. We will start the year looking at what it takes to work with small children. Professionalism in the work place, values, goal setting and communication skills. We will discuss child development theory, prenatal development including labor and delivery and will lastly move into child development from birth through age 8. The knowledge and skills gained in this class are necessary for life as a mature caring adult and will help prepare you for a career in the field, the more we know the better prepared we can be.	9-12	1/2 Credit
Early Childhood Professions 2 In the second year of the ECP program of study, students will learn how to care for and promote development in young children. Students will do observations and projects. Students will also do a more in depth study relating to child development along with hands-on projects like story telling, puppetry, and healthy snacks. A variety of professions working with young children are discussed. Prerequisite: Early Childhood Professions 1 **BLOCK CLASS**	10-12	1 Credit
Early Childhood Professions 3 The ECP 3 course uses the competencies from the national Child Development Associate (CDA) program. In this course, students will continue their study of child development. Students will plan and participate in hands-on experiences with children ages 0-5, along with cleaning duties and life skills that apply to a work site on a daily basis. Lifelong guidelines are the focus for high school students and young children. Students will complete reading/writing assignments that relate to children and families. This course is repeatable for credit. Prerequisite: Early Childhood 2 **BLOCK CLASS**	11-12	1 Credit

Continuing education credits and certifications available through WAVE CTED programs, see pages 16 & 17





Cabinetmaking

Reinforced Academics: English, Math, Science, Technology **Math credit available*
Student Organizations: Skills USA - www.azskillsusa.org
Certification Opportunities: OSHA
Scholarship Opportunities: Available
College Credit:

<u>Title</u>	<u>Grade Level</u>	<u>Credits per Semester</u>
Cabinetmaking 1 A/B Learn basic woodworking skills, including: shop etiquette, safe use of machines and hand tools, assembly process and finishing techniques. Student built projects will enhance all learned skills. *Lab fee \$25.00 per semester	9-12	1/2 Credit
Cabinetmaking 2 A/B This year long course will utilize intermediate woodworking skills including: joinery techniques, machinery applications, technical assembly processes, and advanced finishing techniques. Student projects and enterprise activities will enhance all processes. CNC programming and operations will also be offered both semesters. Prerequisite: Cabinetmaking 1 and instructor approval. *Lab fee: \$10.00 per semester, plus students will supply own materials to construct individual projects.	10-12	1/2 Credit
Cabinetmaking 3 A/B This course will utilize advanced woodworking skills including: joinery techniques, machinery applications, technical assembly processes, and advanced finishing techniques. Student projects and enterprise activities will enhance all processes. CNC programming and operations will also be offered both semesters. Prerequisite: Cabinetmaking 2 and instructor approval. *Lab fee: \$10.00 per semester, plus students will supply own materials to construct individual projects.	11-12	1/2 Credit
Construction A/B This course will prepare students to apply technical knowledge and skills to lay out, cut, fabricate, erect, install and repair wooden structures and fixtures, using hand and power tools. *Lab fee: \$10.00 per semester, plus students will supply own materials to construct individual projects.	9-12	1/2 Credit

Successful completion of Cabinetmaking 1, 2 and 3 can count towards the graduation requirement in Math.



WAVE
 Western Arizona Vocational Education
 Ride the WAVE to your career choice!

Culinary Arts

Reinforced Academics:	English, Math, Science
Student Organizations:	FCCLA, C-CAP - www.azfclla.org , www.ccapinc.org
Certification Opportunities:	ServSafe, Food Handlers
Scholarship Opportunities:	Available
College Credit:	

<u>Title</u>	<u>Grade Level</u>	<u>Credits per Semester</u>
Culinary Arts 1A/1B This course emphasizes meal planning for good nutrition and preparation of a variety of foods. Kitchen sanitation and safety, tools and appliances, cooking terms, following recipes, and preparation of the basic food groups are included. Students will also learn about the food service industry. **Lab fee \$25/Semester	9-12	1/2 Credit
Culinary Arts 2 This advanced class is for the student wishing to pursue a career in the food service industry. Many advanced techniques and fine tuning of skills are taught. The art of preparing pastries, soups, sauces, and classical cuisine are just some of the things taught in this class. Continues to the 3rd year program completer course of Culinary Arts 3. Prerequisite: Culinary Arts 1 **Lab fee \$25/Semester	10-12	1/2 Credit
Culinary Arts 3 A continuation of Culinary Arts 2, this class provides students with additional industry training including the operation of commercial equipment, and mastery of kitchen tools & knives. The students will master proper table service as well as the art of customer service through catering. Prerequisite: Culinary Arts 2. **Lab fee \$25/Semester	10-12	1/2 Credit
Culinary Nutrition This course is a study of human nutrition and the effects of diet on the health of the individual. This term covers intro to nutrition, dietary planning, nutrient groups, diet therapy, nutrition throughout the life cycle, and disease management.	9-12	1/2 Credit

Continuing education credits and certifications available through WAVE CTED programs, see pages 16 & 17



Graphic Design

Reinforced Academics:	English, Math, Science, Computer Technology
Student Organizations:	FBLA— www.fbla.org
Certification Opportunities:	Adobe Photoshop
Scholarship Opportunities:	Available

<u>Title</u>	<u>Grade Level</u>	<u>Credits per Semester</u>
Graphic Arts 1 A/B Students start with this introductory course that will combine several elements of traditional and commercial art. This visual arts course will serve as the foundation to pathways in graphic arts, traditional art and photography. Recognized industry software is utilized throughout the course. This is the first step to becoming a program completer. *Lab fee: \$15.00/semester	9-12	1/2 Credit
Graphic Arts 2 A/B Students will explore and understand the various digital media and technologies including technology's historical evolution, current applications, and future possibilities. They will develop design concepts and projects for commercial and business environments as well as explore career possibilities. Prerequisite: INF 0151/0152 *Lab fee: \$10/ semester	10-12	1/2 Credit
Advanced Graphic Arts A/B Third year students will build on and refine their understanding of various digital media and technologies including technology's historical evolution, current applications, and future possibilities. Students will develop design concepts and projects, which directly apply to commercial and business environments, such as, corporate identity packages, and sales and marketing materials. Design students will act as a business partners with the school clubs and organizations. Prerequisite: INF 0121/0122 *Lab fee: \$10/semester	10-12	1/2 Credit



Career & Technical Education



Stagecraft

Reinforced Academics:

Student Organizations:

Certification Opportunities:

Scholarship Opportunities:

English, Math, Science, Computer Technology

Arizona Thespians

OSHA 10

Available

Title

Grade Level

Credits per Semester

Stagecraft 1 A/B

9-12

1/2 Credit

Introduction to Technical Theatre. If you prefer to hide in the shadows, rather than stand in the spotlight, this is the class for you. Focusing on the skills you need to run tech for events in and out of schools, Fall Semester will include a tour of the facility, how to operate lights, sound, and spotlights, and how to hang objects and safely fly them onstage. In addition, there will be project based units such as special effects makeup and sewing. Spring Semester will focus on painting techniques, stage management, hand and power tools, and dramaturgy. ****Lab fee: \$10/semester.**

Stagecraft 2 A/B

10-12

1/2 Credit

Intermediate Technical Theatre. Fall Semester will build on the skills of Stagecraft I, covering additional topics such as building doors, stairs, and revolving platforms, tying knots, and preparing for Regional and State Competition. Students will also complete the OSHA 10-Hour General Industry Certification in this class. In Spring Semester, the focus will be on design and production, with students choosing their own play to create a production book and design portfolio for, and the opportunity for one designer to student direct an in-class production. **Prerequisite: Stagecraft 1 **Lab fee: \$10/semester.**

Stagecraft 3 A/B

11-12

1/2 Credit

Advanced Technical Theatre. With a college and career focus, the students of Stagecraft III spend class time building the sets for all productions at KHS, operating lights and sound for events in the KHS Auditorium, researching colleges and degrees (or business internships and certifications for employment) suitable for the students' chosen career, and completing independent projects around the theatre. There are also internship opportunities available to Stagecraft III students with our industry partners. **Prerequisite: Stagecraft 2 **Lab fee: \$15/semester.**

Drama A/B

9-12

1/2 Credit

Introduction to Theatre. Whether you were a born drama queen or an introvert looking to break out of your comfort zone, this class is ideal for mastering the art of public speaking and performance. Fall Semester will cover all the fundamentals, including, but not limited to, History of Theatre, Stage Directions, Audition Techniques, vocal control, movement, characterization, memorization, and improvisation. We will write and perform our own monologues, scenes, and even short scripts. Spring Semester will focus on the specialized skills of theatre, such as accents, stage combat, and musical theatre. The course will culminate in an in-class production, performed for the school.



Pathways to Success

KUSD and WAVE Cord Requirements for all CTE options

Honor Cord	To earn the silver honor cord, students must have a cumulative GPA of 3.0 or higher for <u>all</u> high school course work. No honor cords are awarded for college JTED programs as it is for high school GPA and JTED cords are for college course work.
AgriScience	To earn an ag program cord, the student must take 3 AgriScience classes. Silver cord is awarded with a 3.0 GPA on all high school course work.
Autos	To obtain a program cord, students must complete the Automotive program and pass the technical assessment or pass at least 6/10 ASE student certifications.
Administration of Justice	Students must take 6 of the available MCC courses (dual enrollment or concurrent enrollment) and earn a C or better to earn the blue/white JTED cord.
Business Management	Students must complete 2 Bus. Mgmt. courses and have earned at least a 2.0 cumulative GPA in the business classes where they are earning the cord.
Cabinetmaking	Students must complete Cabinetmaking 1A/B and Cabinetmaking 2A/B for blue program cord. WAVE JTED cord is given for students that complete blue program cord requirements and Cabinetmaking 3 A/B.
CIS	Students must have taken the 6 courses necessary to complete their Systems Support and Security Certificate from MCC to earn the blue/white JTED cord.
Culinary	Students must have taken 2 years or 2 credits (CUL 1A, 1B, 2) to receive the black program cord. For dues paying members to FCCLA who have completed the program requirements <u>and</u> have achieved 50+ hours of event/volunteer time they will receive a red cord for FCCLA.
ECE	Student receives certificate for completing ECE 1 A/B and ECE 2 A/B with C's or better Student receives a graduation cord for completing ECE 1 A/B, 2 A/B, and 3 A/B with C's or better.
EMT	Student must complete the EMT class at MCC and pass the skills test in order to receive a blue/white JTED cord.
Fire Service	Students must take 6 of the available MCC courses (concurrent enrollment) and earn a C or better to earn the blue/white JTED cord or complete 2 years of Fire Service classes at LWHS with a C or better.
Graphic Design	Students must complete 4 semesters in Graphic Design and have at least a cumulative GPA of 2.5 across all 6 semesters of the program to receive a program cord. Students with a 3.0 overall GPA will receive a silver cord.
Nursing	Students receives JTED cord if they have taken and passed with a C or better Medical Terminology A/B and MCC Certified Nursing Assistant course (6 credits)
	or Student received JTED cord if they have taken and passed with a C or better the Certified Nursing Assistant (MCC 6 credit course) and passed the Arizona Board of Nursing Exam (written/skills)
Sports Med	Students must take Athletic Training A/B and Advanced Athletic Training A/B and have a cumulative GPA of 2.0 in all 4 semesters of the program.
Stagecraft	Students must complete the 2 Stagecraft courses (Stagecraft 1 A/B and Stagecraft 2 A/B with a C or better to earn a program cord.
Welding	Students must have taken all SMAW Certificate courses with a C or better to earn the blue/white JTED cord.

CTE...Where Skills & Passion Collide!

What is WAVE?

Western Arizona Vocational Education, a career and technical education (CTE) district, provides career preparation programs to high school students to help them be ready for life after high school, whether it be work or other post-secondary options.

WAVE offers:

- ⇒ partnerships with local high school CTE programs.
- ⇒ payment of tuition and fees for high school students to attend CTE programs at local community colleges.

JUMP START YOUR CAREER!

Prepare For Your Future Today!

CONTACT YOUR GUIDANCE OFFICE OR CAREER
CENTER AT YOUR SCHOOL FOR MORE
INFORMATION!



**Application Forms are available in the
Guidance Office or Career Center for the following programs:**

Administration of Justice

**Business: Bookkeeping, Business & Entrepreneurship, Retail
Management**

**Computer Programs: Graphics/Web Design, Cybersecurity/
Network Support, Professional Applications, Programming/
Game Design**

Education

Electrical Technology

Fire Science

Heating, Ventilation & Air Conditioning (HVAC)

**Medical: EMT, Insurance Coding, Medical Assisting, Nursing
Assistant (CNA), Phlebotomy**

Welding

www.wavejted.org

Pathways to Success

WAVE Certificate Program Descriptions

Shielded Metal Arc Welding Certificate (SMAW) 17 Credits

Students interested in the Welding field should consider this opportunity to earn national certification. Interested students must fill out an application and meet the pre-requisites to be considered. The WAVE CTED will pay for tuition, fees and books. Students will pay for program material such as welding helmets and jackets. This certificate prepares students to obtain entry level positions in SMAW. Students must provide their own transportation. Applications are available through the guidance department and career center. Program questions can be directed to Cassie Vroegh 692-6463 or cvroegh@kUSD.org.

Certified Nursing Assistant (CNA) 6 Credits

Students interested in the medical field should consider this opportunity to earn national certification. Interested students must fill out an application and meet the pre-requisites to be considered. The WAVE CTED will pay for tuition, fees and books. Students will pay for program material such as stethoscopes, scrubs and workbooks. This certificate provides students with the knowledge, skills and attitude to become a nursing assistant, home health aide or continue their education in the field of medicine. Along with the necessary classroom portion, required clinical practice will be arranged with local health care facilities. Upon successful completion of the course, WAVE CTED will provide funding for the students to take their AZ Board of Nursing CNA Exam. Students must provide their own transportation. Applications are available through the guidance department and career center. Program questions can be directed to Cassie Vroegh 692-6463 or cvroegh@kUSD.org.



Fire Explorer Academy

Students interested in the field of Fire Fighting should consider this opportunity to earn national certification. As a Fire Science student, you will learn practical techniques for fighting fires and also study the theories of fire fighting techniques. Interested students must fill out an application and meet the pre-requisites to be considered. The WAVE CTED will pay for tuition, fees and books. The certifications offered are Firefighting 1, Firefighting 2, First Aid/CPR, Hazardous Materials, Awareness and Operations, National Incident Management System and Wildland. Students must provide their own transportation and must have release time. Applications are available through the guidance department and career center. Program questions can be directed to Cassie Vroegh 692-6463 or cvroegh@kUSD.org.

** Not offered every year **

Foreign Language

<u>Title</u>	<u>Grade Level</u>	<u>Credits per Semester</u>
Spanish 1 A/B This is a beginning study of Spanish with an emphasis on vocabulary and basic grammar. (Spanish 1 must be completed before Spanish 2)	9-12	1/2 Credit
Spanish 2 A/B This is a continuation of Spanish 1 with emphasis on vocabulary, more complex grammar, writing and conversation. Prerequisite: Spanish 1	10-12	1/2 Credit
IGCSE Spanish 1 A/B Cambridge IGCSE Spanish 1 develops a set of transferable skills for understanding and communicating in everyday situations in Spanish. Learners begin to develop cultural awareness of countries and communities where Spanish is spoken. They acquire the essential linguistic skills required for progression to further studies or employment. The syllabus gives students opportunities to develop and apply a wide range of foreign language skills. Candidates will be expected to read and understand a variety of written and spoken texts on familiar topics. Candidates will be required to demonstrate an understanding of the main ideas, opinions and attitudes. They will also have opportunities to write in Spanish on familiar, everyday topics, and to speak the language by taking part in everyday conversations. Prerequisites include: Any student who wishes to take the IGCSE Spanish course will have to successfully complete one year of regular Spanish 1. Any student who wishes to take IGCSE Spanish who has not taken Spanish 1 first will be required to take a test in order to be accepted into the class. Students must be highly self motivated to learn the language and culture and willing to sit for the exam. (Check out the Cambridge website for more information: cambridgeinternational.org)	10-12	1/2 Credit/Semester

Fine & Performing Arts

<u>Title</u>	<u>Grade Level</u>	<u>Credits per Semester</u>
Concert Choir This choir is open to the general population of KHS to allow students to sing and develop a respect for and an interest in different types of music. The student will learn the basics of music theory to include notation, dynamic markings, tempo and rhythm markings, major/minor scale structure, key signatures, interval and choral structures.	9-12	1/2 Credit
Advanced Choir Advanced Choir is an auditioned performing ensemble of mixed singers that takes a deeper look into music theory, sight singing, aural skills, choral harmonies, studying and appreciating a varied repertoire of music genres, and the science of singing and vocal tone production.	9-12	1/2 Credit

Fine & Performing Arts

<u>Title</u>	<u>Grade Level</u>	<u>Credits per Semester</u>
Flag Line	9-12	1/2 Credit
<p>This course is designed to provide specialized instruction for members of the KHS Color Guard. Students will develop equipment manipulation techniques (flag, rifle, etc.) as well as elements of dance, character development and portrayal. Students will also develop techniques in marching and teamwork. Audition Required for competition but not to enroll in the class. (Fall Semester only)</p>		
Concert Band	9-12	1/2 Credit
<p>The premier concert performance ensemble of KHS. The goal is to provide students with the opportunity to develop and refine musicality and technical skills that will enable them to perform a wide variety of band literature at the grade 3-5 level of difficulty. Students will focus on personal mastery of instruments and the increase in quality of tone production, intonation, ensemble balance, technical and lyrical interpretation of music. Performances will include School Concerts, state and local tours, Regional, State and District Band Festivals. <i>Previous instrumental experience is required.</i></p>		
Band Percussion	9-12	1/2 Credit
<p>The ensemble is designed to provide specialized instruction for percussion students. Students will have the opportunity to develop percussion performance techniques on the numerous instruments of the percussion family. Fall classes will focus on Battery and Front Ensemble performance for marching band. The remainder of the class will focus on percussion section additions to Wind Ensemble and Concert Band literature as well as stand alone percussion ensemble literature</p>		
Band Jazz 1	9-12	1/2 Credit
<p>Traditional Jazz Big Band for advanced music students who wish to learn to express themselves through various musical styles such as rock, jazz and Latin. Emphasis is on ensemble playing and improvisation.</p>		
Guitar A/B	9-12	1/2 Credit
<p>This course is designed as an introduction to Guitar Performance and technique. Students will learn basic music notation and theory as well as a beginning understanding of guitar performance. This class will focus on individual performance of the guitar and musicality with some small ensemble performance. This is an Introductory class for students with little to no guitar experience.</p>		

Physical Education

<u>Title</u>	<u>Grade Level</u>	<u>Credits per Semester</u>
<p>Weight Training</p> <p>This course introduces students to all types of resistance training. The class consists of a four-day weight-lifting program with emphasis on technique and safety. One day per week is designated for fitness-related activity. It may be repeated for credit.</p>	10-12	1/2 Credit
<p>PE Advanced Co-Ed</p> <p>This course is designed to give a basic foundation in PE by exposing students to team and individual sports, with different sports featured each semester. This course can be repeated for credit.</p>	9-12	1/2 Credit
<p>IGCSE PE</p> <p>A Cambridge PE course for freshmen and sophomore students with an interest in athletics, sports medicine, athletic training and coaching, physical therapy or even medicine. Students will develop their knowledge and understanding physical performance in a modern world; apply this knowledge and understanding to improve their performance; perform in a range of physical activities, developing skills and techniques, and selecting and using tactics, strategies and/or compositional ideas; understand and appreciate safe practice in physical activity and sport; understand and appreciate the benefit of physical activity and sport for health, fitness and well-being and much more.</p>	9-12	1/2 Credit
<p>***All PE classes require appropriate athletic attire and \$5 class fee per semester.***</p>		

Other Electives

<u>Title</u>	<u>Grade Level</u>	<u>Credits per Semester</u>
<p>Yearbook</p> <p>The students are responsible for putting together the KHS Yearbook. Students are expected to be self-motivated and prepared to work after school and on weekends as needed to complete the yearbook. Students will learn about researching and writing copy, proofreading, designing layouts, taking photographs, selling ads, and journalism skills. Following completion, students must organize distribution of the books. *Elective credit only.</p>	9-12	1/2 Credit
<p>Student Council</p> <p>Student Council is designed for motivated students who strive to improve the school environment through leadership and dedication. It is a year-long commitment that requires involvement in and out of school. This includes, but is not limited to: set-up/clean-up and attendance at ALL Student Council sponsored events, active participation in classes and school events, organizational skills and the knowledge of ALL school activities, as well as having a great attitude and ambition to take on challenges. Student Council members are held to the highest standards and should be role models to their peers. There is a GPA requirement to remain in the class as well as a Code of Conduct that every member abides by. Acceptance requires an application and interview process.</p>	9-12	1/2 Credit

Guidance

<u>Title</u>	<u>Grade Level</u>	<u>Credits per Semester</u>
Teacher Assistant Student aides will assist teachers in carrying out clerical duties. May not take with 2 hours of release time. Prerequisite: Teacher approval, 2.0 cumulative GPA Maximum 2 semesters	10-12	1/2 Credit
Student Assistant Student assistants will be assigned to work with a teacher in the Special Education Department, assisting a special education student. The student assistant will help to improve his/her basic academic skills. The class may be repeated for credit. Prerequisite: Teacher/Counselor recommendation.	10-12	1/2 Credit
Office Assistant Work in an office on campus: Attendance, Discipline, Guidance, Health, Library, Reception, Student Accounts, Student Assistance Center, or Special Education. Prerequisite: Office supervisor recommendation, 3.0 cumulative GPA. Repeatable for credit.	11-12	1/2 Credit
CTE Lab Assistant Students who have completed a CTE program may serve as lab assistants to complete their work-based learning experience. Students will apply their classroom technical knowledge in a hands-on learning experience with their CTE instructor. Prerequisite: Teacher recommendation Repeatable for credit.	11-12	1/2 Credit
Release Time 1 hour AM	12	
Release Time 1 hour PM	12	
Release Time 2 hours AM	12	
Release Time 2 hours PM	12	

*Release time forms available from your counselor!

Course Fees

Several courses at Kingman High School require course fees in order to offer the best educational opportunities for our students. If any student or family is not able to pay these fees because of economic hardship, please contact the Administration. You may qualify for a variety of programs at the school. These programs may require you to fill out applicable paperwork. The fee waiver and other supportive services applications are not a guarantee fees will be waived or services will be offered.

KHS Course Guide

English

<u>Course #</u>	<u>Title</u>	<u>Grade Level</u>	<u>Credits per Semester</u>
ENG 0101/0102	English 1	9	1/2 Credit
<p>The course meets the Arizona state standards for freshmen English, focusing on grammar and the writing of persuasive and expository essays. Students will practice critical thinking skills while exploring a variety of short stories, non-fiction texts, poetry, and approved novels in which they are taught literary elements and figurative language.</p>			
ENGC 161/C162	Cambridge IGCSE First Language English	9	1/2 Credit
<p>This course prepares students to demonstrate understanding of extended texts; recognize the relationship of ideas; draw inferences, evaluate effectiveness, compare, analyze and synthesize ideas; recognize and respond to linguistic devices, such as figurative language; and demonstrate understanding of how writers achieve effects. In writing, students will demonstrate adequate control of syntax, vocabulary and grammar; express thoughts, feelings and opinions in order to interest, inform or convince an audience; and will be assessed on their ability to make accurate and effective use of paragraphs, grammatical structures, sentences, punctuation and spelling. In speaking and listening, students will understand and convey simple and complex information; consciously order and present facts, ideas and opinions for a particular audience; recognize and discuss statements of opinion and attitude, while discerning underlying assumptions and point of view; and speak audibly and intelligibly with appropriate tone, intonation and pace. This course is required for Arizona's Grand Canyon High School Diploma. (Check out the Cambridge website for more information: Cambridge international.org)</p>			
ENG 0201/0202	English 2	10	1/2 Credit
<p>As directed through the current Arizona Department of Education's state standards, students review the fundamentals of grammar, write a variety of essays and focus on improving their communicative skills using the standard conventions of written English. Additionally, students become familiar with the common elements of literature while developing career and college ready vocabulary. In this sophomore level class, students will experience district-approved novels, as well as a variety of short stories, non-fiction texts, essays, and poetry selections. (Cambridge IGCSE Literature in English 0427 substitutes for this requirement). Completion of this course with a B or above qualifies a student for English Composition 101</p>			
ENGC 261/C262	Cambridge IGCSE Literature in English	10	1/2 Credit
<p>This course will prepare students to enjoy the experience of reading literature; understand and respond to literary texts in different forms and from different periods and cultures; communicate an informed personal response appropriately and effectively; appreciate different ways in which writers achieve their effects; experience literature's contribution to aesthetic, imaginative and intellectual growth; and explore the contribution of literature to an understanding of areas of human concern. Students will demonstrate detailed knowledge of the content of literary texts in the three main forms (drama, poetry, and prose); understand the meanings of literary texts and their contexts, and explore texts beyond surface meanings to show deeper awareness of ideas and attitudes; recognize and appreciate ways in which writers use language, structure, and form to create and shape meanings and effects; and communicate a sensitive and informed personal response to literary texts. This course is required for Arizona's Grand Canyon High School Diploma. (Check out the Cambridge website for more information: Cambridge international.org)</p>			

Dual enrollment opportunities may be available in Math, English, Social Studies, Science, Fine Arts and CTE. Please see your Guidance Counselor for a current listing!

KHS Course Guide

English

<u>Course #</u>	<u>Title</u>	<u>Grade Level</u>	<u>Credits per Semester</u>
ENG 0301/0302	English 3	11	1/2 Credit
<p>The current Arizona State Standards are reflected in this level 3 curriculum which provides students the opportunity to explore district-approved novels, short stories, non-fiction text, essays, and poetry. Through critical thinking, evaluation, analysis, and synthesis, students will explore the literary merits of each piece of text. (Cambridge AS or DC English 101/102 substitutes for this requirement).</p>			
ENGC 361/C362	Cambridge AS English Language	11-12	1/2 Credit
<p>The purpose of this course is to provide students with an understanding of the semantic, structural, and rhetorical resources of the English language as they relate to the principles of effective writing. Students will create critical and informed responses to texts in a range of forms, styles, and contexts while developing the Interdependent skills of reading, analysis, and research. Students will demonstrate a knowledge and understanding of English language and its use in a variety of contexts. The course also provides a variety of writing opportunities calling for the use of different styles and tones. Students will write clearly, accurately, creatively, and effectively for different purposes/audiences, using different forms. This course is recommended for the AICE diploma through Cambridge. (Check out the Cambridge website for more information: cambridgeinternational.org) May be dual credit with MCC DC ENG 101/102.</p>			
	Cambridge AS General Paper	11-12	1/2 Credit
<p>"In the AS General Paper Course, students will consider topics within local and international contexts that appeal to their education and career interests. Students will have the opportunity to gain knowledge and understanding of issues in three broad topic areas: 1) Economic, historical, moral, political and social; 2) Science, including its history, philosophy, ethics, general principles and applications; environmental issues; technology and mathematics; 3) Literature, language, the arts, crafts, and the media. They should be able to draw upon knowledge and understanding gained from studying other subjects. Through the study of these broad topic areas, students develop effective reading and writing skills in English. They work with information, ideas and opinions. They analyze and evaluate opinions and ideas and learn how to build an argument. These skills are all highly transferable and will help students in other subjects they are studying, and equip them for higher education or employment. Students in this course can earn college credit by taking the exam at the end of the semester.</p>			
ENG 0401/0402	English 4	12	1/2 Credit
<p>This course includes a curriculum directed by the current Arizona State Standards with a focus on college and career readiness writing i.e. applications; resumes; essays. Students will also study and analyze various literary and informational text. This course is designed to explore practical applications of English skills that include presentations and a "career path research paper." (English 4 AP, Cambridge AS English Language 8287 or DC English 101/102 substitutes for this requirement).</p>			
ENGC 371/C372	Cambridge AS Literature in English	12	1/2 Credit
<p>The purpose of this course is to provide students with close study of all required texts. Students will learn to demonstrate the ability to respond to literary texts in the three main forms (Prose, Poetry and Drama) of different types and from different cultures. Students will demonstrate an understanding of the ways in which writers' choices of form, structure and language shape meanings. Students will demonstrate the ability to produce informed, independent opinions and judgments on literary texts as well as the ability to communicate clearly the knowledge, understanding and insight appropriate for literary study through writing and other formats. This course is recommended for students seeking the AICE diploma through Cambridge. Prerequisite: C or better in AS English Language. This course is recommended for the AICE diploma through Cambridge. (Check out the Cambridge website for more information: cambridgeinternational.org) May be dual credit with MCC DC ENG 234/236.</p>			

KHS Course Guide

Math

<u>Course #</u>	<u>Title</u>	<u>Grade Level</u>	<u>Credits per Semester</u>
MAT 0111/12	Integrated 1	9-10	1/2 Credit
<p>This is the first course in the three year Integrated Math series. The program focuses on combining Algebra and Geometry concepts in order to help students develop an understanding of how these concepts are implemented in the real world. This class is an introductory level. The concepts students will learn are solving equations, order of operations, graphing and reviewing basic geometric figures and concepts. This counts as the Algebra 1 credit required for graduation.</p>			
MAT 0211/12	Integrated 2	10-12	1/2 Credit
<p>This is the second course in the three year Integrated Math series. The program focuses on combining Algebra and Geometry concepts in order to help students develop an understanding of how these concepts are implemented in the real world. This level is about developing and growing topics from year one. Integrated 2 solidifies equations and graphing while introducing trigonometry, transformations and congruent triangles. This counts as the Geometry credit required for graduation.</p>			
MAT 0311/12	Integrated 3	11-12	1/2 Credit
<p>This is the third course in the three year Integrated Math series. The program focuses on combining Algebra and Geometry concepts in order to help students develop an understanding of how these concepts are implemented in the real world. This level is about refining students' understanding and implementations of the mathematical concepts. Integrated 3 focuses on systems of equations, triangle proofs, polynomials and quadratics, while reviewing equations, exponents, graphing, and geometry concepts. This counts as the Algebra 2 credit required for graduation.</p>			
MAT 0121/0122	Algebra 1	9-10	1/2 Credit
<p>This course introduces many of the high school concepts of number sense, algebra, functions, patterns, data analysis, and probability.</p>			
MAT 0221/0222	Algebra 2	10-12	1/2 Credit
<p>This course continues in the study of number sense, algebra, functions, patterns, data analysis, and probability. Applications of the basic skills of algebra are made to prepare for higher levels of mathematics. Prerequisite: MAT0122 or MAT0232.</p>			
MAT 0231/0232	Geometry	9-12	1/2 Credit
<p>This course investigates many of the high school concepts of geometry, logic, and reasoning. Prerequisite: MAT0122 or MAT0222.</p>			

KHS Course Guide

Math

<u>Course #</u>	<u>Title</u>	<u>Grade Level</u>	<u>Credits per Semester</u>
MAT 0351/D352	College Algebra/Trigonometry (MAT151/MAT181 Dual Enrollment)	11-12	1/2 Credit
<p>College Algebra is the study and analysis of elementary functions, equations and inequalities, conic sections, systems of equations and matrices, and sequences and series, with an emphasis on problem solving and multiple representations. Second semester focuses on Trigonometric functions and their graphs and inverses, identities and the applications of these functions to right and oblique triangles, vectors, complex number and polar and parametric equations. Appropriate college placement score applies.</p>			
MAT 0361/0362	Personal Finance	11-12	1/2 Credit
<p>This class is a real life approach to understanding your money. This course uses a lot of projects to help you make sense of the topics in your own way. Personal Finance A covers spending, saving, credit, searching for a job, net pay and making a career portfolio. Personal Finance B includes taxes, insurance, retirement, cars, houses and budgeting.</p>			
MAT 0351/0352	Pre-calculus	11-12	1/2 Credit
<p>This course is for students who would need to take significant math in college but aren't quite ready to take college classes now. First semester we will be covering factoring, polynomial functions, and sketching functions using parent graphs. Second semester focuses on trigonometric functions and trigonometric identities. Students considering this course should have passes their other 3 years of Math classes with a C or better, in order to be successful.</p>			
MAT 0340	Discrete Mathematics with Problem Solving	11-12	1/2 Credit
<p>This class will cover the basic concepts of discrete math which will include: finite graphs, matrices, fair share/ voting methods, and problem solving strategies. Prerequisite: MAT0232 or 0242 and MAT0222 or 0252.</p>			
MAT 0345	Probability & Statistics	11-12	1/2 Credit
<p>This class will cover the basic concepts of probability and statistics which will include graphing, making predictions, designing and testing hypotheses. Prerequisite: MAT0232 or 0242 and MAT0222 or 0252.</p>			

KHS Course Guide

Math

<u>Course #</u>	<u>Title</u>	<u>Grade Level</u>	<u>Credits per Semester</u>
MAT 161/C162	Cambridge Math Year 1 (IGCSE Algebra I)	9-12	1/2 Credit
<p>This course prepares students to demonstrate mathematical knowledge as a key life skill, and as a basis for more advanced study. Students will develop a feel for numbers, patterns and relationships, with a strong emphasis on solving problems and presenting and interpreting results. Students also learn how to communicate and reason using mathematical concepts. This course will allow students to develop their mathematical knowledge and oral, written and practical skills; read mathematics, and write and talk about the subject in a variety of ways; apply mathematics in everyday situations and develop an understanding of the part which mathematics plays in the world around them. The course is equivalent to Algebra I credit with supplemental Cambridge material to enrich and expand concepts. This course is required for Arizona's Grand Canyon High School Diploma. (Check out the Cambridge website for more information: Cambridgeinternational.org)</p>			
MATC 261/C262	Cambridge IGCSE Math Year 2 - (IGCSE Geometry)	10-12	1/2 Credit
<p>This course investigates many of the high school concepts of geometry, logic, and reasoning and continues the theme of Cambridge Year 1. Students also learn how to communicate and reason using mathematical concepts. This course will allow students to develop their mathematical knowledge and oral, written and practical skills; read mathematics, and write and talk about the subject in a variety of ways; apply mathematics in everyday situations and develop an understanding of the part which mathematics plays in the world around them. <u>The course is equivalent to a Geometry credit</u> with supplemental Cambridge material to enrich and expand concepts. This course is required for Arizona's Grand Canyon High School Diploma. (Check out the Cambridge website for more information: Cambridgeinternational.org)</p>			
MATC 361/C362	Cambridge IGCSE Additional Math (Algebra II)	10-12	1/2 Credit
<p>Cambridge IGCSE Additional Mathematics (US) allows students to: • further develop their use of mathematical concepts and principles • extend their mathematical skills and their use in more advanced techniques • solve problems, present solutions logically, and interpret results • develop a solid foundation for further study. Our programs balance a thorough knowledge and understanding of a subject and help to develop the skills learners need for their next steps in education or employment. The course is <u>equivalent to an Algebra II credit</u> with supplemental Cambridge material to enrich and expand concepts. (Check out the Cambridge website for more information: Cambridgeinternational.org)</p>			
MATC 371/C372	Cambridge ASA Level Math	11-12	1/2 Credit
<p>The purpose of this course is to enable students to develop an understanding of mathematical principles and an appreciation of mathematics as a logical and coherent subject; acquire a range of mathematical skills, particularly those which will enable them to use applications of mathematics in the context of everyday situations and of other subjects they may be studying; develop the ability to analyze problems logically, recognize when and how a situation may be represented mathematically, identify and interpret relevant factors, and, where necessary, select an appropriate mathematical method to solve the problem; use mathematics as a means of communication with emphasis on the use of clear expression. This course is recommended for the Cambridge AICE diploma. (Check out the Cambridge website for more information: CambridgeInternational.org)</p>			
<p>Successful completion of: Cabinetmaking 1, 2, and 3, or any four Business Management classes can count towards the graduation requirement in Math.</p>			

KHS Course Guide

Science

<u>Course #</u>	<u>Title</u>	<u>Grade Level</u>	<u>Credits per Semester</u>
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SCI0111/0112 **Integrated Science**

9

1/2 Credit

Integrated Science is the entry level science course for high school science. It provides the conceptual foundation for further high school science curriculum. Students receive instruction and practice in developing and refining scientific skills and methods that are prerequisites for success. Topics included in this class are scientific processes, the nature and history of science, basic earth science, basic physics, and basic chemistry. Students will focus on fundamentals, data recording, and communication in all areas. Instruction and pacing will be differentiated to meet the needs of the students.

SCI0131/0132 **Biology**

9-12

1/2 Credit

Introduction to biological principles, cellular function, biochemistry, nucleic acid functions, genetics and genetic engineering. The kingdom and domains of life, including viruses, bio-history and evolution, and ecology and relationships among the species. *Fee: \$5 per semester.

SCI 0221/0222 **Earth Science**

10-12

1/2 Credit

Study of the relationships between the Earth's land masses, oceans, and atmosphere, interactions between the Earth's structures, atmosphere, and geologic cycles. Study of the origin and evolution of the Universe including: energy flow time scale, minerals and rocks, Earth's interior composition, and plate tectonics. Prerequisite: SCI0131 or SCI0112. *Fee: \$5 per semester.

SCI 0261/0262 **General Chemistry**

10-12

1/2 Credit

This course is for college-bound students. The course covers a sequential curriculum and laboratory work is essential. Topics include atomic structure, mole concepts, periodic laws, chemical formulas and chemical compounds. Prerequisite: MAT0122 and SCI0132. *Fee: \$5 per semester.

SCI 0271/0272 **Physics**

11-12

1/2 Credit

Physics is the study of the description and explanation of the motion of objects. Topics include kinematics, basic dynamics, work and energy, momentum, and the composition and resolution of vectors as well as simple machines, circular motion, gravitational mechanics, wave theory, sound, light, geometric optics, and physical optics. Laboratory and problem solving techniques are emphasized. Prerequisite: MAT0221/0222 (may be concurrently enrolled). *Fee: \$5 per semester.

SCI 0341/0342 **Anatomy and Physiology A/B**

11-12

1/2 Credit

This course is designed for "pre-professional" students and others who may enter health or health-related fields. It is an in-depth look into the functioning world of the human body. This course will examine physiological functions as well as identifying the anatomical structures found within the systems of the body. Topics will include organization of the body, support and movement of the body, integration and control of the body, regulation and maintenance of the body, and the continuance of the species. Successful completion of "A" is necessary for success in "B". Prerequisite: SCI0132 and SCI0262. *Fee: \$5 per semester

SCIC 161/162 **Cambridge IGCSE Biology 0610**

9

1/2 Credit

This course prepares students to better understand the world in which they live, and take an informed interest in science and scientific developments. Students learn about the basic principles of biology through a mix of theoretical and practical studies while developing an understanding of the scientific skills essential for further study. Students will learn how science is studied and practiced, and become aware that the results of scientific research can have both good and bad effects on individuals, communities and the environment. Required for Grand Canyon High School Diploma (Check out the Cambridge website for more information: cambridgeinternational.org) *Fee: \$5 per semester.

KHS Course Guide

Science

<u>Course #</u>	<u>Title</u>	<u>Grade Level</u>	<u>Credits per Semester</u>
SCIC 261/262	Cambridge IGCSE Chemistry	10-12	1/2 Credit
<p>As well as a subject focus, the Chemistry syllabus enables students to: better understand the technological world in which they live, take an informed interest in science and scientific developments, learn about the basic principles of Chemistry through a mix of theoretical and practical studies, develop an understanding of the scientific skills essential for further study, skills which are useful in everyday life learn how science is studied and practiced, and become aware that the results of scientific research can have both good and bad effects on individuals, communities and the environment. This course is required for Arizona's Grand Canyon High School Diploma. (Check out the Cambridge website for more information: Cambridge international.org) *Fee: \$5.00 per semester.</p>			
SCIC 271/272	Cambridge AS Biology	11-12	1/2 Credit
<p>This course is designed to provide a worthwhile educational experience for all students; develop relevant and useful abilities and skills; develop attitudes relevant to biological science; stimulate interest in and care for; the local and global environment, promote an awareness of issues surrounding the study and application of biological science; and stimulate students to create a sustained interest in biology. This course is recommended for the AICE Diploma. (Check out the Cambridge website for more information: Cambridgeinternational.org)</p>			
SCIC 371/C372	Cambridge AS Physics	11-12	1/2 Credit
<p>This course is designed to impart knowledge of everyday phenomena including, but not limited to, Newtonian mechanics, matter, oscillations and waves, electricity and magnetism, and modern physics. Students that complete this course will have been given a comprehensive introduction in the physical world, will have a greater appreciation for the scientific process (including its limitations), and will be better equipped to contribute to a technological society. This course is recommended for the AICE Diploma. (Check out the Cambridge website for more information: Cambridgeinternational.org)</p>			
SCIC 471/C472	Cambridge A Physics	12	1/2 Credit
<p>This course places an emphasis on the laws governing the physical world as well as the interactions and relationships between these laws. Students will study principles of: fluids, thermodynamics, electricity, magnetism, optics, and topics in modern physics. Students that complete this course will have been given a robust introduction into the scientific process, as well as critical thinking skills and technological know-how to continue in this scientific field of study. It is a continuation of the AS level course with more in-depth instruction on similar topics. Students will also study gravitational fields, quantum physics and electromagnetism (among others). The scientific process will continued to be emphasized as well the use of technology to describe these phenomena. <u>Recommended for the Cambridge AICE diploma.</u> (Check out the Cambridge website for more information: cambridgeinternational.org) Prerequisite: Cambridge AS Physics</p>			
SCIC 471/C472	Cambridge AS Chemistry	11-12	1/2 Credit
<p>Cambridge International AS & A Level Chemistry develops a set of transferable skills including handling data, practical problem-solving and applying the scientific method. Learners develop relevant attitudes, such as concern for accuracy and precision, objectivity, integrity, enquiry, initiative and inventiveness. They acquire the essential scientific skills required for progression to further studies or employment. This course is recommended for the AICE Diploma. (Check out the Cambridge website for more information: Cambridgeinternational.org)</p>			

Successful completion of 2 years Athletic Training counts as 1 Science credit.

****Science courses meet Arizona universities lab science admissions requirements.****

Social Studies

<u>Course #</u>	<u>Title</u>	<u>Grade Level</u>	<u>Credits per Semester</u>
SSC 0201/0202	World History and Geography	9-12	1/2 Credit
<p>Students will analyze the human experience through time to recognize the relationships of events and people and to interpret significant patterns, themes, ideas, beliefs, and turning points in world history. The first semester covers history up to the age of exploration and colonization and focuses heavily on the development of civilizations that established the foundations for the modern historical era beginning around the 16th century. The second semester covers history from the era of Absolute monarchs in Europe to the present and focuses heavily on political, economic, and social developments that have shaped the world we live in today. There will also be a large focus on geography, especially where it is a significant factor in the shaping of historical events. The content of this course requires an emphasis on reading, writing, and critical thinking skills, which will be developed throughout the semester</p>			
SSC 0321/0322	US History	11-12	1/2 Credit
<p>This course is a one year course. The first semester covers early American history from pre-Columbian America through the 1920's. There will be an emphasis on the period from the Industrial Revolution forward. In addition, this course will include Arizona history and basic economic concepts. The second semester covers the period from the Great Depression through current events. This is a required course for graduation</p>			
SSC 0450	Civics	12	1/2 Credit
<p>The history and heritage of the government and Constitution of the United States. The roles of the three branches of federal government, and state and local governments; as well as economics. This is a required course for graduation. May be offered as dual credit with MCC POS120</p>			
SSC 0460	Economics	12	1/2 Credit
<p>This course is an overview of the foundations of economics and will focus on different approaches to the study of economics: microeconomics, macroeconomics, global economics, and personal finance. Current issues and public policies will be analyzed to gain a better understanding of the complex relationships among economics, politics, and culture.</p>			
SSCC 261/C262	Cambridge IGCSE American History 0409	9	1/2 Credit
<p>Cambridge IGCSE American History (US) offers candidates the opportunity to discover key issues, ideas, people, and events that shaped the emergence and development of the U.S.A. from the mid-18th century to the start of the 21st century. In doing so, it develops an understanding of the present as well as the past. The course enables learners to study American history through the use of original historical sources, objects, and visits to local sites. This course promotes development of lifelong skills such as research, critical analysis, and communication. Throughout this course, acquisition of historical knowledge is underpinned by an investigative approach. This course is required for Arizona's Grand Canyon High School Diploma. (Check out the Cambridge website for more information: Cambridge international.org)</p>			

Social Studies

<u>Course #</u>	<u>Title</u>	<u>Grade Level</u>	<u>Credits per Semester</u>
SSCC 161/C162	Cambridge IGCSE World History 0416	10	1/2 Credit
<p>The IGCSE History course looks at some of the major international issues of the twentieth century, as well as covering the history of particular regions in more depth. The emphasis is on both historical knowledge and on the skills required for historical research. Students learn about the nature of cause and effect, continuity and change, similarity and difference and find out how to use and understand historical evidence as part of their studies. IGCSE History will stimulate any student already interested in the past, providing a basis for further study, and also encouraging a lifelong interest in the subject. Meets World History graduation requirement. This course is required for Arizona's Grand Canyon High School Diploma. (Check out the Cambridge website for more information: Cambridge international.org)</p>			
SSC 0371/D372	Cambridge AS US History 9389	11-12	1/2 Credit
<p>This course allows students to develop a coherent understanding of the history of the U.S.A. The curriculum content provides for historical study in breadth from a variety of perspectives. This course gives students the opportunity to: understand key issues, ideas, people, and events that shaped the emergence and development of the U.S.A.; understand connections between them and understand their significance; and be able to develop a clear grasp of chronology and periodization. Teaching and learning will focus on: continuity, development, change over time, causation and consequence, the significance of key turning points, and individual's connections between different topics. This course is recommended for students seeking the AICE diploma through Cambridge. This course is required for Arizona's Grand Canyon High School Diploma. (Check out the Cambridge website for more information: CambridgeInternational.org) May be dual credit with MCC HIS131/132</p>			
SSCC 0480	Cambridge AS Economics	12	1/2 Credit
<p>Cambridge International AS Level Economics is an introductory economics course that covers the key concepts which run through the study of economics. These concepts will help students make links between the different levels and topics in economics including fundamental problems all societies face, the decision making process by individuals, firms, and governments, how market equilibrium is achieved, when government intervention and regulation is needed or desired, and how these concepts work together to create efficiency. Course is designed to prepare students for Cambridge exams at the end of the year by reinforcing critical thinking, writing skills, and critical analysis. This course is required for Arizona's Grand Canyon High School Diploma. (Check out the Cambridge website for more information: CambridgeInternational.org)</p>			
SSCC 301/C302	Cambridge AS Global Perspectives 9239 A/B	11-12	1/2 Credit
<p>The purpose of this course aims to prepare students for positive engagement with a rapidly changing world, broadening their outlook through the critical analysis of, and reflection on, issues of global significance. This course enables candidates to think critically, to reason in a disciplined way, and to communicate effectively. The course is firmly based on skills rather than specific content. Through the study of global issues, candidates will explore different and sometimes opposing perspectives and will acquire and develop thinking and reasoning skills as well as research and communication skills that will enable students to meet the demands of the twenty-first century and to make a successful transition to study in higher education. Prerequisite: It is recommended that students have attained communication and literacy skills at a level equivalent to IGCSE/GCSE Grade C in English. This course is REQUIRED for students seeking the AICE diploma through Cambridge. (Check out the Cambridge website for more information: Cambridgeinternational.org.) Credit ELA or HST.</p>			

AICE—Grand Canyon Diplomas

The Kingman High School Cambridge students have the opportunity to earn various diplomas as described below.

[AICE DIPLOMA \(Advanced International Certificate of Education - Cambridge\)](#)

During the 11th and 12th grades, students may undertake AICE classes. The curriculum is designed to follow on from IGCSE, giving an integrated four-year curriculum. The AICE diploma itself is designed to be a two year program made up with AS/A level courses.

In order to achieve an AICE diploma, students must satisfy the following during 11th and 12th grades:

- Six Cambridge credits to include one exam from each of the 3 subject groups
- Advanced subsidiary (AS) Level exams = 1/2 credit/Semester/Semester
- Advanced (A) Level exams = 2 credits
- Students who complete 6 ACIE credits can achieve the AICE Diploma

AICE Three Areas of Student: Students must take at least one class from each of the 3 subject groups; the class choice is up to them. Global Perspectives is a requirement for the AICE diploma beginning with the class of 2017. (All other graduation requirements must still be met.)

[GRAND CANYON HIGH SCHOOL DIPLOMA](#)

A student may qualify for a Grand Canyon Diploma by meeting the following requirements within the Cambridge Academy and passing IGCSE examinations at the levels prescribed the ADE.

- Two credits of English.
- Two credits of Mathematics
- Two credits of Science
- One Credit of American History
- One Credit of World History
- One Credit of Career and Technical Education (or Cambridge Fine Arts)
- One-half credit of Economics

Career and Technical Education

Vision: Ensure a dynamic workforce by fully developing every students career and academic potential.

Mission: Prepare Arizona students for workforce success and continuous learning.



Annual Public Notification of Nondiscrimination

Kingman Unified School District #20 (KUSD #20) does not discriminate on the basis of race, color, national origin, gender, age, or disability in admission to its programs, services, or activities, in access to them, in treatment of individuals, or in any aspect of their operations. The KUSD #20 Career and Technical Education Department does not discriminate in enrollment or access to any of the programs available (Agriculture, Allied Health, Automotive, Business, Carpentry, CIS, Culinary, Engineering/Drafting, Early Childhood Education, Fire Science, Nursing, Law Enforcement, Photography, Tech Theater and Welding). The lack of English language skills shall not be a barrier to admission or participation in the district's activities and programs. KUSD #20 also does not discriminate in its hiring or employment practices.

This notice is provided as required by Title VI of the Civil Rights Act of 1964, Section 504 of the Rehabilitation Act of 1973, Title IX of the Education Amendments of 1972, the Age Discrimination Act of 1975, and the Americans with Disabilities Act of 1990. Questions, complaints, or requests for additional information regarding these laws may be forwarded to the compliance coordinators listed at bottom.

Notificación Pública Anual de No Discriminación

(Spanish Version)

Kingman Unified School District #20 (KUSD #20) no discrimina raza, color, nacionalidad, género, edad, o incapacidad de admisión a sus programas, servicios, o actividades, en acceso a ellas, en el tratamiento a individuos, o en ningún aspecto de sus operaciones. El departamento de Educación Técnica y de Carreras de Kingman Unified School District #20 (KUSD #20) no discrimina en su matriculación o en el acceso a cualquier de sus programas disponibles (Agriculture, Allied Health, Automotive, Business, Carpentry, CIS, Culinary, Engineering/Drafting, Early Childhood Education, Fire Science, Nursing, Law Enforcement, Photography, Tech Theater and Welding). La falta de habilidades inglesas para idiomas de hablar no será una barrera a la admisión ni la participación en las actividades del distrito y programas. El Kingman Unified School District #20 (KUSD #20) tampoco discrimina en sus contratos o practicas de empleados.

Esta noticia es provista y requerida por el Título VI del Acto de Derechos Civiles de 1964, Sección 504 del Acto de Rehabilitación de 1973, Título IX de la Enmienda Educativa de 1972, en el Acto de Era de Discriminación de 1975, y el Acto de los Estadounidenses con Habilidades Diferenciadas de 1990. Preguntas, quejas, o para más información con respecto a estas leyes pueden remitir por al coordinador de compliance.

Title II/IX Compliance Coordinator

Mrs. Angela Moreschi Director of Human Resources
KUSD #20
3033 MacDonald Ave.
Kingman, AZ 86401
Phone: 928-753-5678, ext. 2012

Section 504 Coordinator

Mrs. Vicki Trujillo Director
KUSD #20
3033 MacDonald Ave.
Kingman, AZ 86401
Phone: 928-753-5678, ext. 2201

***Note: All materials can be translated upon request. Please contact the site administration office to obtain this service.*

GET INVOLVED AND STAY IN SCHOOL!

Kingman High School offers a variety of athletics, activities and student services. A large number of athletic opportunities are offered in the Fall, Winter and Spring seasons for male and female athletes. Stop by the Athletics Office to pick up your physical exam paperwork and AIA guidelines regarding participation.

Clubs, student organizations, and enterprises provide students with another way to get involved in their school. Students can participate in competitive, academic, service based or social clubs. You can even be involved in Student Government.

The Guidance Office offers a range of services to help students through their high school years. Career, academic and personal counseling is available. Peer mediation and support groups are also an option. After school tutoring centers are available for students needing academic support and AZ Merit preparation.

Take advantage of these and other opportunities to make your high school experience fun, rewarding and successful!

Look to the KHS Website for up to date information:

www.khs.kusd.org

Contact Information

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Judy Venenga

Career and Technical Education

Cassie Vroegh, Coordinator

928-692-6463

Course catalogs will be posted online at:

www.khs.kusd.org

www.waveCTED.org

ONCE A
BULLDOG

ALWAYS A
BULLDOG



