

# **2021-2022 Course Catalog**



## **HIGH SCHOOL**

**Career & Technical Education**

**Cambridge Academy**

**Pathways to Success**

# STUDENT PLANNING GUIDE

<b>Cambridge Academy</b> .....	3
<b>CTE Programs/WAVE CTED Info</b> .....	4-21
<i>Agriscience</i> .....	4
<i>Engineering, Drafting and Design</i> .....	5
<i>Business Management and Administrative Service (BMAS ) and CIS</i> .....	6-7
<i>Nursing Services</i> .....	8
<i>Sports Medicines and Rehabilitation Services and Health Info Technician</i> .....	9
<i>Early Childhood Education</i> .....	10
<i>Cabinetmaking</i> .....	11
<i>Culinary Arts</i> .....	12
<i>Digital Photography</i> .....	13
<i>Stagecraft</i> .....	14
<b>Why CTE</b> .....	15
<b>CTE/WAVE CTED</b> .....	16-17
<b>Student Planning Guide</b> .....	18-19
<b>Academic Equivalents</b> .....	20
<b>Dual Enrollment Opportunities</b> .....	21
<b>Core Classes</b> .....	22-29
<i>English</i> .....	22-23
<i>Math</i> .....	24-25
<i>Science</i> .....	26-27
<i>Social Studies</i> .....	28-29
<b>Elective Classes</b> .....	30-35
<i>Foreign Language, Fine and Performing Arts (Art, Choir, Band, Drama)</i> .....	31-33
<i>Physical Education</i> .....	34
<i>Guidance/Course Fees</i> .....	35
<b>AICE/Grand Canyon Diploma</b> .....	36
<b>Career Pathways</b> .....	37
<b>Annual Notice</b> .....	38
<b>Contact Information</b> .....	39
<b>Honors Diploma</b> .....	40
<b>Graduation Requirements</b> .....	41

# 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/](http://kUSD.org/programs/cambridge/) or [cambridgeinternational.org](http://cambridgeinternational.org)

Send all inquiries to [cambridge@kUSD.org](mailto:cambridge@kUSD.org)



## Career & Technical Education

# Agriscience

**Reinforced Academics:**

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

**Student Organizations:**

FFA—azffa.org

**Certification Opportunities:**

**Scholarship Opportunities:**

Available through FFA

<u>Course #</u>	<u>Title</u>	<u>Grade Level</u>	<u>Credits per Semester</u>
<b>AGR 0101/0102</b>	<b>Ag Biology A/B</b>	<b>9-12</b>	<b>1/2 Credit</b>
<p>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 &amp; 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. <b>**Lab Fee: \$20/semester</b></p>			
<b>AGR 0201/0202</b>	<b>Advanced Ag Biology A/B</b>	<b>10-12</b>	<b>1/2 Credit</b>
<p>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. <b>Prerequisite: AGR 0101/0102. **Lab Fee: \$20/semester</b></p> <p style="text-align: center;"><i>Successful completion of Ag Bio and Adv. Ag Bio can count towards the graduation requirement in Biology</i></p>			
<b>AGR0 211/0212</b>	<b>Ag Welding 1 &amp; 2</b>	<b>10-12</b>	<b>1/2 Credit</b>
<p>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. <i>*Limited enrollment. **Lab Fee: \$20/semester</i></p>			
<b>AGR 0281/0282</b>	<b>Horticulture: A/B</b>	<b>9-12</b>	<b>1/2 Credit</b>
<p>Students in this Agriculture course will learn how horticulture impacts people, places, and things. Students will get "hands on" instruction in plant science, plant production, harvesting, propagation, irrigation, effects of sunlight, water, air, temperature, plant growth regulators on plants. Greenhouse management, and automation enhances the student's understanding of plant and crop production. <b>**Lab Fee: \$20/semester</b></p>			
<b>AGR 0301/0302</b>	<b>Ag Science 1 - A/B</b>	<b>11-12</b>	<b>1/2 Credit</b>
<p>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. <b>Prerequisite: AGR 0201/0202. **Lab Fee: \$20/semester</b></p>			
<b>AGR 0401/0402</b>	<b>Ag Science 2 - A/B</b>	<b>12</b>	<b>1/2 Credit</b>
<p>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. <b>Prerequisite: AGR 0301/0302 **Lab Fee: \$20/semester</b></p>			

## Career & Technical Education



# Engineering, Drafting & Design



**Reinforced Academics:**  
**Student Organizations:**  
**Certification Opportunities:**  
**Scholarship Opportunities:**  
**College Credit:**

English, Math, Science, Technology *\*Math credit available*  
 Skills USA - [www.azskillsusa.org](http://www.azskillsusa.org)  
 Autodesk; Solidworks; CADD  
 Available  
 N/A

<u>Course #</u>	<u>Title</u>	<u>Grade Level</u>	<u>Credits per Semester</u>
<b>IND 0136/0137</b>	<b>Engineering/Drafting A/B</b>	<b>9-12</b>	<b>1/2 Credit</b>
This entry-level course will emphasize fundamental engineering, drafting and design concepts. Students will be introduced to mechanical, architectural and computer-aided engineering, drafting and design as they prepare for college and careers related to these fields. <b>**Lab Fee \$5/Semester</b>			
<b>IND 0246/0247</b>	<b>Architectural Engineering/Drafting 1 - A/B</b>	<b>10-12</b>	<b>1/2 Credit</b>
A continuation of architectural engineering and drafting, which includes the history of architecture, floor plan design, structural details, foundation, roof, and elevation plates. A basic set of plans and a model are minimum competencies for the course. <b>Prerequisite:</b> IND0137 or comparable course. <b>**Lab Fee \$5/Semester</b>			
<b>IND 0256/0257</b>	<b>Mechanical Engineering/Drafting 1 - A/B</b>	<b>10-12</b>	<b>1/2 Credit</b>
A continuation of mechanical engineering and drafting, which includes advanced application of mechanical design and conventional drawings. Second semester concentrates on applications of auxiliary views, revolutions, sectional views, fasteners and working drawings. The student will be introduced to several CADD programs. <b>Prerequisite:</b> IND0137 or comparable course. <b>**Lab Fee \$5/Semester</b>			
<i>Successful completion of <a href="#">Introduction of Engineering/Drafting</a>, <a href="#">and Mechanical Engineering/Drafting 1</a> or <a href="#">Architectural Engineering/Drafting 1</a> can count towards the graduation requirement in Math.</i>			
<b>IND 0346/0347</b>	<b>Architectural Engineering/Drafting 2 - A/B</b>	<b>11-12</b>	<b>1/2 Credit</b>
The course content consists of the architectural history, residential & commercial building code, structural details, electrical systems, plumbing, technical illustration, model building, CADD and estimation. Two sets of plans and models are a minimum competency for the course. <b>Prerequisite:</b> IND0247. <b>**Lab Fee \$5/Semester</b>			
<b>IND 0356/0357</b>	<b>Mechanical Engineering/Drafting 2 - A/B</b>	<b>11-12</b>	<b>1/2 Credit</b>
An advanced application of mechanical engineering and drafting conventions for working drawings, problem solving and geometry, and specialty applications in engineering constructions. Emphasis is on problem solving skills, team work and CADD. <b>Prerequisite:</b> IND0257. <b>**Lab Fee \$5/Semester</b>			
<b>IND 0261/0262</b>	<b>Computer Aided Drafting &amp; Design (CADD)</b>	<b>11-12</b>	<b>1/2 Credit</b>
An introduction to computer systems and application packages including Autodesk AutoCAD Academy and Animation Design Academy. The student will build CADD skills through application of basic engineering and drafting conventions in the mechanical and architectural areas. The student will progress to 3-D modeling and animation. <b>Prerequisite:</b> IND0247 or IND0257. Repeatable for credit with instructor approval only. <b>**Lab Fee \$5/Semester</b>			
<b>IND 0366/0367</b>	<b>Engineering: Design and Robotics</b>	<b>11-12</b>	<b>1/2 Credit</b>
This course introduces students to the advanced principles of engineering in the context of physics and alternative energies as well as computer programming and design. Students learn about areas of specialization and apply engineering tools and procedures as they complete hands-on activities and projects. Scientific data collection and analysis will determine effectiveness			

## Pathways to Success

# Career & Technical Education



## Business Management and Administrative Services (BMAS)

**Reinforced Academics:** English, Math, Science, Technology *\*Math credit available*  
**Student Organizations:** FBLA - [www.fbla-pbl.org](http://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

Course #	Title	Grade Level	Credits per Semester
<b>MKT 0241/0242</b>	<b>Marketing A/B</b>	<b>9-12</b>	<b>1/2 Credit</b>
Learn about customer buying habits and the sales world. Determine how to purchase, display, promote and finance products. Meets prerequisite to work in the Student Store (MKT0341). This course can count as one of the four BMAS classes needed to waive the 4th year math credit.			
<b>MKT 0341/0342</b>	<b>Advanced Store Management &amp; Marketing A/B</b>	<b>11-12</b>	<b>1/2 Credit</b>
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.			
<b>BUS 0120</b>	<b>Microsoft Office 1</b>	<b>9-12</b>	<b>1/2 Credit</b>
Improve your future in academics and work! Understand and use the latest Microsoft Office Suite to solve problems in real world situations.			
<b>BUS 0320</b>	<b>Microsoft Office 2</b>	<b>11-12</b>	<b>1/2 Credit</b>
Continue your Microsoft Office skills by solving complex problems. Work towards the industry recognized Microsoft Office Specialist Certification by testing in Word, Excel, Access and PowerPoint. <b>Prerequisite: BUS0120. *Dual credit with MCC</b>			
a. <b>Prerequisite: MKT0241 or BUS0261 or BUS0120 and instructor approval.</b>			
<b>BUS 0240</b>	<b>Gaming.net</b>	<b>9-12</b>	<b>1/2 Credit</b>
Create 2-D and 3-D PC games (platforms, mazes, and multi-player) using Game Maker's simple drag and drop interface. You will discover the process of creating games can be as fun as playing them.			
<b>BUS 0130</b>	<b>Webpage Design</b>	<b>9-12</b>	<b>1/2 Credit</b>
Discover how your "Facebook" page is created. Learn HTML, JavaScript, Dreamweaver and industry standard software.			



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

## Career & Technical Education



# Business Management and Administrative Services (BMAS)

**Reinforced Academics:**

**Student Organizations:**

**Certification Opportunities:**

**Scholarship Opportunities:**

**College Credit:**

English, Math, Science, Technology *\*Math credit available*

FBLA - [www.fbla-pbl.org](http://www.fbla-pbl.org)

Microsoft Office User Specialist, MCC Systems Support and Security, A+; Available

CIS 110, CIS 143, CIS 131, ACC 125

<u>Course #</u>	<u>Title</u>	<u>Grade Level</u>	<u>Credits per Semester</u>
<b>BUS 0261/0262</b>	<b>Accounting 1 A/B</b>	<b>10-12</b>	<b>1/2 Credit</b>
<p>Considering a college business degree, running your own business, or working; take this life line class. This essential computerized class covers the basic accounting principles and practices associated with a service business as well as corporate accounting for a merchandise business. You will complete an accounting cycle, analyze financial statements and make educated business decisions. Accounting is the language of business. <i>*Dual credit with MCC ACC125 may be available for Accounting 1B!!</i></p>			
<b>BUS 0310</b>	<b>Computer Info Systems—Dual Credit CIS110</b>	<b>10-12</b>	<b>1/2 Credit</b>
<p>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. <b>Earn 3 college credits at MCC for CIS110. This is a required general education class for all in-state universities.</b></p>			

This is a required general education class for all in-state universities.





# Nursing

**Reinforced Academics:**

English, Math, Science

**Student Organizations:**

HOSA - [www.azhosa.org](http://www.azhosa.org)

**Certification Opportunities:**

First Aid, CPR, CNA

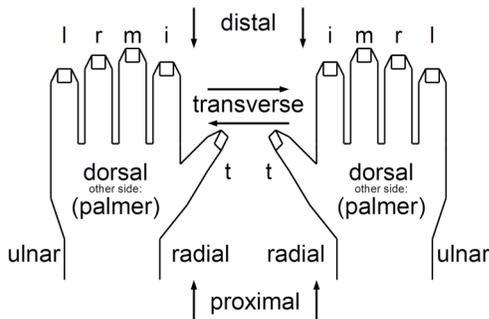
**Scholarship Opportunities:**

Available

**College Credit:**

NUR 115 Certified Nursing Assistant Certification

<u>Course #</u>	<u>Title</u>	<u>Grade Level</u>	<u>Credits per Semester</u>
<b>MED 0241/0242</b>	<b>Medical Terminology A/B</b>	<b>9-12</b>	<b>1/2 Credit</b>
<p>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. <b>Prerequisite: SCI0131(May be concurrent). MED0241 must be taken prior to 0242. *Counts as Health graduation requirement</b></p>			
<b>MED 0340</b>	<b>Occupations</b>	<b>11-12</b>	<b>1/2 Credit</b>
<p>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>			
<b>CUL 0350</b>	<b>Culinary Nutrition</b>	<b>9-12</b>	<b>1/2 Credit</b>
<p>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>			



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



# Sports Medicine

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

<u>Course #</u>	<u>Title</u>	<u>Grade Level</u>	<u>Credits per Semester</u>
-----------------	--------------	--------------------	-----------------------------

<b>MED 0261/0262</b>	<b>Athletic Training - A/B</b>	<b>10-12</b>	<b>1/2 Credit</b>
<p>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. <b>Prerequisite: SCI0131 (May be concurrent)</b></p>			

<b>MED 0361/0362</b>	<b>Advanced Athletic Training - A/B</b>	<b>11-12</b>	<b>1/2 Credit</b>
<p>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. <b>Prerequisite: MED0262</b></p>			

<b>GUI 0320</b>	<b>Lab Assistant – Job Shadow</b>	<b>10-12</b>	<b>1/2 Credit</b>
<p>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. <b>Prerequisite: MED0261,0262/MED0362,0362</b></p>			



## Career & Technical Education



# Early Childhood Education

<b>Reinforced Academics:</b>	English, Math, Science
<b>Student Organizations:</b>	FCCLA - <a href="http://www.azfccla.org">www.azfccla.org</a>
<b>Certification Opportunities:</b>	CDA
<b>Scholarship Opportunities:</b>	Available
<b>College Credit:</b>	NA

<u>Course #</u>	<u>Title</u>	<u>Grade Level</u>	<u>Credits per Semester</u>
<b>ECP 0111/0112</b>	<b>Early Childhood Professions 1A/B</b>	<b>9-12</b>	<b>1/2 Credit</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.			
<b>ECP 0211/0212</b>	<b>Early Childhood Professions 2A/B</b>	<b>10-12</b>	<b>1/2 Credit</b>
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. <b>Prerequisite: ECP0111/0112.</b>			
<b>ECP 0310</b>	<b>Early Childhood Professions 3A/B</b>	<b>11-12</b>	<b>1 Credit</b>
The ECP 3 A/B 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. <b>Prerequisite: ECP0211/0212. **BLOCK CLASS**</b>			

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



## Career & Technical Education



# Cabinetmaking

**Reinforced Academics:** English, Math, Science, Technology *\*Math credit available*  
**Student Organizations:** Skills USA - [www.azskillsusa.org](http://www.azskillsusa.org)  
**Certification Opportunities:** OSHA  
**Scholarship Opportunities:** Available  
**College Credit:**

<u>Course #</u>	<u>Title</u>	<u>Grade Level</u>	<u>Credits per Semester</u>
<b>IND 0101/0102</b>	<b>Cabinetmaking 1 A/B</b>	<b>9-12</b>	<b>1/2 Credit</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. <b>*Lab fee \$25.00 per semester</b>			
<b>IND 0201/0202</b>	<b>Cabinetmaking 2 A/B</b>	<b>10-12</b>	<b>1/2 Credit</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. <b>Prerequisite: IND0102 or IND0101 and instructor approval.</b> <b>*Lab fee: \$10.00 per semester, plus students will supply own materials to construct individual projects.</b>			
<b>IND 0301/0302</b>	<b>Cabinetmaking3 A/B</b>	<b>11-12</b>	<b>1/2 Credit</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. <b>Prerequisite: IND0202 or IND0201 and instructor approval.</b> <b>*Lab fee: \$10.00 per semester, plus students will supply own materials to construct individual projects.</b>			
<b>IND 0210</b>	<b>Precision Manufacturing A/B</b>	<b>10-12</b>	<b>1/2 Credit</b>
Students will learn the basic concepts and techniques of Computer Numerical Control (CNC) programming with emphasis on multi-axis machining. Students will receive instruction on current CNC language programming through use of simulation software and realistic models. Students will transition from programming to hands-on set-up, procedures and production of real life projects.			



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



# Culinary Arts

**Reinforced Academics:** English, Math, Science  
**Student Organizations:** FCCLA, C-CAP - [www.azfccla.org](http://www.azfccla.org), [www.ccapinc.org](http://www.ccapinc.org)  
**Certification Opportunities:** ServSafe, Food Handlers  
**Scholarship Opportunities:** Available  
**College Credit:**

<u>Course #</u>	<u>Title</u>	<u>Grade Level</u>	<u>Credits per Semester</u>
-----------------	--------------	--------------------	-----------------------------

<b>CUL 0231/0232</b>	<b>Culinary Arts 1A/1B</b>	<b>10-12</b>	<b>1/2 Credit</b>
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. <b>**Lab fee \$25/Semester</b>			

<b>CUL 0331</b>	<b>Culinary Arts 2</b>	<b>10-12</b>	<b>1/2 Credit</b>
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 completor course of CUL 0332 <b>Prerequisite: CUL0232.**Lab fee \$25/Semester</b>			

<b>CUL 0332</b>	<b>Culinary Arts 3</b>	<b>10-12</b>	<b>1/2 Credit</b>
A continuation of CUL 0331, 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. <b>Prerequisite: CUL0331. May be dual credit with MCC CUL 111 or 115. **Lab fee \$25/Semester</b>			

<b>CUL 0350</b>	<b>Culinary Nutrition</b>	<b>9-12</b>	<b>1/2 Credit</b>
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.			

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



## Career & Technical Education



# Photography

<b>Reinforced Academics:</b>	English, Math, Science, Computer Technology
<b>Student Organizations:</b>	Skills USA - <a href="http://www.azskillsusa.org">www.azskillsusa.org</a>
<b>Certification Opportunities:</b>	Adobe Photoshop
<b>Scholarship Opportunities:</b>	Available
<b>College Credit:</b>	CIS 145 Photoshop

<u>Course #</u>	<u>Title</u>	<u>Grade Level</u>	<u>Credits per Semester</u>
<b>INF 0151/0152</b>	<b>Art and Design A/B</b>	<b>9-12</b>	<b>1/2 Credit</b>
Students start with this introductory course that will combine several elements of traditional and commercial art along with photography. 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. Owning your own digital camera is recommended. This is the first step to becoming a program completer. <b>*Lab fee: \$15.00/semester.</b>			
<b>INF 0201/0202</b>	<b>Digital Photography A</b>	<b>10-12</b>	<b>1/2 Credit</b>
This course is designed for the novice photographer, someone who will enjoy shooting and digitally producing photographs that incorporate the elements of composition and design. Adobe Photoshop software is used. Owning your own digital camera is recommended. Following this class with Advanced Photo will lead to being a program completer in the Digital Photography program. <b>*Lab fee: \$25.00/semester.</b>			
<b>INF 0301/0302</b>	<b>Advanced Digital Photography B/C/D</b>	<b>11-12</b>	<b>1/2 Credit</b>
Apply the knowledge learned in Photography. Learn special techniques and effects when working on a variety of different rotating assignments. These rotating assignment may include: portraiture, lighting, scanning and SLR manipulation. Students will continue to improve their skills in Adobe Photoshop along with developing a portfolio and investigating careers in the industry. Photographing school events and special projects may be used to expand student skills. Owning your own digital camera is recommended. This course is repeatable for credit. <b>*Lab fee: \$25.00/semester. Prerequisite: INF0202.</b>			
<b>INF 0340</b>	<b>Adobe Photoshop</b>	<b>11-12</b>	<b>1/2 Credit</b>
Use state of the art image-editing software on new state-of-the-art laptops and desktops. Learn fundamental concepts and features to master the program. Photoshop tools manipulate static images for use on the Web or for printing. Retouch photos, manipulate design, and create art work. No lab fee is required because there is no printing.			

Photography classes can be used to satisfy the Fine Arts graduation requirement or the CTE requirement.



## Pathways to Success

# Career & Technical Education



# Stagecraft

**Reinforced Academics:**

**Student Organizations:**

**Certification Opportunities:**

**Scholarship Opportunities:**

English, Math, Science, Computer Technology

Arizona Thespians

OSHA 10

Available

**Course #**

**Title**

**Grade Level**

**Credits per Semester**

**DRA 0101/0102**

**Stage Craft 1 A/B**

**9-12**

**1/2 Credit**

Students receive an introduction to drama as they focus on drama appreciation through theater vocabulary, acting techniques and methods, analysis and evaluation of performance, theater history, and application of theater skills as they relate to other disciplines. General instruction in the dramatic arts includes units in improvisation, voice/oral interpretation, audition, acting/directing, history of drama, stagecraft, costuming, and make-up. **\*\*Lab fee: \$10/semester.**

**DRA 0201/0202**

**Stage Craft 2 A/B**

**10-12**

**1/2 Credit**

This course is designed to acquaint the casual theater buff with what happens backstage. This includes everything an aspiring stage technician needs to know. If you are interested in being the person in the light booth or running the sound, this class is for you. Theater techs may be required to work on projects outside of class building sets and providing lighting and sound for events. Major units include stages and rigging, construction, lighting, sound, and properties. Appropriate behavior and the following of school rules are expected at all after school work calls, rehearsals, and activities. **Prerequisite: DRA0101/0102. \*\*Lab fee: \$10/semester.**

**DRA 0301/0302**

**Stage Craft 3 A/B**

**11-12**

**1/2 Credit**

This class is designed for the hard-working students who would like to be involved in drama behind the scenes. The class will cover the technical aspects of production with an emphasis on reading a script from a technical point of view to designing the set, sound, and lighting for a production. Students will build the set and assist younger students in learning sound and lighting systems. Theater techs may be required to work on projects outside of class building sets and providing lighting and sound for events. Appropriate behavior and the following of school rules are expected at all after school work calls, rehearsals, and activities. **Prerequisite: DRA0201/0202. \*\*Lab fee: \$15/semester.**



# WHY CAREER AND TECHNICAL EDUCATION?

A Career & Technical Education program can:

## **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.

# 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.
- ⇒ specialized training at our own Culinary & Hospitality campus.

## **JUMP START YOUR CAREER!**

## **Prepare For Your Future Today!**

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



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

**Nursing**  
**Welding**  
**Business & Entrepreneurship**  
**Computer Information Systems (CIS)**  
**Criminal Justice**  
**Fire Science**  
**Visual Communication (Design)**  
**Certified Production Technician (Manufacturing)**  
**Health Information Technology (HIT)**  
**Emergency Medical Technician (EMT)**  
**Retail Management**  
**Early Childhood Professions (Education)**  
**Phlebotomy**  
**Medical Assisting**  
**Medical Coding & Billing**

[www.wavejted.org](http://www.wavejted.org)

**Pathways to Success**

# STUDENT PLANNING GUIDE

Business Management	Certifications
Bus Mgt	MOS
Marketing	Retail Mgt
Advanced Store Mgt	Entrepreneurship
Microsoft I	MOS
Microsoft II	MOS
Gaming	
Advanced Gaming	
Webpage Design	
Advanced Webpage Design	
Accounting I	
Occupations	College Classes – See Pages 12 -13
Work Release	

Digital Photography	Certifications
Studio Arts	Adobe Photoshop
Digital Photography	
Advanced Digital Photo	
Occupations	College Classes –See pages12-13
Work Release	

Cabinetmaking	Certifications
Cabinetmaking I	OSHA 10
Cabinetmaking II	
Cabinetmaking III	
Precision Manufacturing	
Occupations	College Classes – See pages 12 - 13
Work Release	

Culinary Arts	Certifications
Culinary Arts I	Food Handlers
Culinary Arts II	Serve Safe
Culinary Arts III	
Occupations	College Classes –See pages 12 - 13
Work Release	

# STUDENT PLANNING GUIDE

Ag Science	Certifications
Ag Bio	
Advanced Ag Bio	
Ag Science I	
Ag Science II	
Ag Welding	
Occupations	College Classes – See pages 12 - 13
Work Release	

Drafting	Certifications
Fundamentals	CADD
Arch I	Softplan
Arch II	Solidworks
Occupations	College Classes – See pages 12 - 13
Work Release	

Nursing Services	Certifications
Med Term	CPR
CNA	CNA
Athletic Training	EMT
A & P	
Occupations	College Classes – See pages 12-13
Work Release	

Early childhood	Certifications
EC I	CDA
EC II	CPR
EC III	
Occupations	College Classes – See pages 12-13
Work Release	

Sports Medicine	Certifications
Athletic Training 1	CPR
Advanced AT	EMT
Lab Assistant	
Occupations	College Classes – See pages 12-13
Work Release	

Stage Craft	Certifications
Stage Craft I	Workplace Safety
Stage Craft II	OSHA
Stage Craft III	
Occupations	College Classes – See pages 12-13
Work Release	

# ACADEMIC EQUIVALENTS IN CTE

## Academic Equivalents

Kingman High School students can meet graduation requirements by taking Career and Technical Education courses. These credits can count as the vocational graduation requirement or the other credits listed below. By taking career preparation classes that meet graduation requirements, you will open up your schedule for more elective courses.

<i>CTE Course</i>	<i>Meets graduation requirement of:</i>
<b>Medical Terminology A/B</b>	<b>Health 1/2 Credit/Semester</b>
<b>Agricultural Biology <u>and</u> Adv. Ag Biology</b>	<b>Biology 1/2 Credit/Semester</b>
<b>Graphic Arts or Intro to Art and Design</b>	<b>Fine Art 1/2 Credit/Semester</b>
<b>Photography (any)</b>	<b>Fine Art 1/2 Credit/Semester</b>
<b>Athletic Training <u>and</u> Advanced Athletic Training</b>	<b>Science 1/2 Credit/Semester</b>
<b>Fundamentals of Engineering/Drafting <u>and</u> Mechanical Engineering/Drafting 1 <u>or</u></b>	<b>Math 1/2 Credit/Semester</b>
<b>Completion of any 4 Business Management classes</b>	<b>Math 1/2 Credit/Semester</b>
<b>Cabinetmaking 1, 2 <u>and</u> 3</b>	<b>Math 1/2 Credit/Semester</b>

# DUAL ENROLLMENT OPPORTUNITIES IN CTE

## Dual Enrollment in Career and Technical Education

Dual enrollment is an educational option for high school students. Students are officially enrolled in high school and simultaneously enrolled in one or more college classes. The classes are taken for both high school and college credit. Kingman High School and Mohave Community College are partnering to provide these opportunities for our students free of charge.

*\*Course offerings and availability may change!*

<b><i>Kingman High School Course Name</i></b>	<b><i>MCC Dual Enrollment Course Name</i></b>
<b>CIS 110</b>	<b>CIS 110 Intro to Computer Info Systems</b>
<b>Adobe Photoshop</b>	<b>CIS 145 Photoshop</b>
<b>Culinary Arts 3</b>	<b>CUL 111 Introduction to Culinary</b>
	<b>CUL 115 Sanitation and Safety <i>*TBD*</i></b>
<b>Microsoft Office 2</b>	<b>CIS 131 Microsoft Office</b>
<b>Accounting 1B</b>	<b>ACC 125 Introduction to Accounting</b>

**Dual enrollment opportunities are also available in Math, English, Social Studies, Science and Fine Arts.**

**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>
<b>ENG 0101/0102</b>	<b>English 1</b>	<b>9</b>	<b>1/2 Credit</b>
<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>			
<b>ENGC 161/C162</b>	<b>Cambridge IGCSE First Language English 0524</b>	<b>9</b>	<b>1/2 Credit</b>
<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: <a href="http://Cambridge international.org">Cambridge international.org</a>)</p>			
<b>ENG 0201/0202</b>	<b>English 2</b>	<b>10</b>	<b>1/2 Credit</b>
<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). <a href="#">Completion of this course with a B or above qualifies a student for English Composition 101</a></p>			
<b>ENGC 261/C262</b>	<b>Cambridge IGCSE Literature in English 0427</b>	<b>10</b>	<b>1/2 Credit</b>
<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: <a href="http://Cambridge international.org">Cambridge international.org</a>)</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>
<b>ENG 0301/0302</b>	<b>English 3</b>	<b>11</b>	<b>1/2 Credit</b>
<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>			
<b>ENGC 361/C362</b>	<b>Cambridge AS English Language 9093</b>	<b>11-12</b>	<b>1/2 Credit</b>
<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: <a href="http://cambridgeinternational.org">cambridgeinternational.org</a>) <b>May be dual credit with MCC DC ENG 101/102.</b></p>			
<b>ENG 0401/0402</b>	<b>English 4</b>	<b>12</b>	<b>1/2 Credit</b>
<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>			
<b>ENGC 371/C372</b>	<b>Cambridge AS Literature in English 9695</b>	<b>12</b>	<b>1/2 Credit</b>
<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: <a href="http://cambridgeinternational.org">cambridgeinternational.org</a>) <b>May be dual credit with MCC DC ENG 234/236.</b></p>			

## KHS Course Guide

# Math

<u>Course #</u>	<u>Title</u>	<u>Grade Level</u>	<u>Credits per Semester</u>
<b>MAT 161/C162</b>	<b>Cambridge Math Year 1 - 0444 (IGCSE Algebra I)</b>	<b>9-12</b>	<b>1/2 Credit</b>
<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: <a href="http://Cambridgeinternational.org">Cambridgeinternational.org</a>)</p>			
<b>MAT 0121/0122</b>	<b>Algebra 1</b>	<b>9-10</b>	<b>1/2 Credit</b>
<p>This course introduces many of the high school concepts of number sense, algebra, functions, patterns, data analysis, and probability.</p>			
<b>MAT 0221/0222</b>	<b>Algebra 2</b>	<b>9-12</b>	<b>1/2 Credit</b>
<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>			
<b>MAT 0231/0232</b>	<b>Geometry</b>	<b>9-12</b>	<b>1/2 Credit</b>
<p>This course investigates many of the high school concepts of geometry, logic, and reasoning. Prerequisite: MAT0122 or MAT0222.</p>			
<b>MATC 261/C262</b>	<b>Cambridge Math Year 2 - (Geometry)</b>	<b>10-12</b>	<b>1/2 Credit</b>
<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: <a href="http://Cambridgeinternational.org">Cambridgeinternational.org</a>)</p>			
<b>MATC 361/C362</b>	<b>Cambridge IGCSE Additional Math (Algebra II)</b>	<b>10-12</b>	<b>1/2 Credit</b>
<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: <a href="http://Cambridgeinternational.org">Cambridgeinternational.org</a>)</p>			

# KHS Course Guide

## Math

<u>Course #</u>	<u>Title</u>	<u>Grade Level</u>	<u>Credits per Semester</u>
<b>MAT 0351/D352</b>	<b>College Algebra/Trigonometry (MAT151/MAT181 Dual Enrollment)</b>	<b>11-12</b>	<b>1/2 Credit</b>
<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>			
<b>MATC 371/C372</b>	<b>Cambridge ASA Level Math 9709</b>	<b>11-12</b>	<b>1/2 Credit</b>
<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: Cambridge nternational.org)</p>			
<b>MAT 0361/0362</b>	<b>Personal Finance</b>	<b>11-12</b>	<b>1/2 Credit</b>
<p>Personal Finance includes a variety of topics needed in today's society. Some of the areas studied will be banking, credit, automobile ownership, employment basics, income taxes, housing, retirement and budgets.</p>			
<b>MAT 0351/0352</b>	<b>Pre-calculus</b>	<b>11-12</b>	<b>1/2 Credit</b>
<p>The course emphasis is on polynomial, exponential, and logarithmic functions, sequences and series. Prerequisite: MAT0222 or 0252 and MAT0232 or 0242.</p>			
<b>MAT 0340</b>	<b>Discrete Mathematics with Problem Solving</b>	<b>11-12</b>	<b>1/2 Credit</b>
<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>			
<b>MAT 0345</b>	<b>Probability &amp; Statistics</b>	<b>11-12</b>	<b>1/2 Credit</b>
<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>			

**Successful completion of:** Fundamentals of Engineering/Drafting and Architectural Engineering/Drafting 1 or Mechanical Engineering/Drafting 1, or Woodworking 1, 2, and 3, or any four Business Management classes, can count towards the graduation requirement in Math.

## KHS Course Guide

# Science

<u>Course #</u>	<u>Title</u>	<u>Grade Level</u>	<u>Credits per Semester</u>
<b>SCI0131/0132</b>	<b>Biology</b>	<b>9-12</b>	<b>1/2 Credit</b>
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.			
<b>SCIC 161/162</b>	<b>Cambridge IGCSE Biology 0610</b>	<b>9-10</b>	<b>1/2 Credit</b>
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: <a href="http://cambridgeinternational.org">cambridgeinternational.org</a> )			
<b>SCI 0271/0272</b>	<b>Physics</b>	<b>10-12</b>	<b>1/2 Credit</b>
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).			
<b>SCI 0221/0222</b>	<b>Earth Science</b>	<b>10-12</b>	<b>1/2 Credit</b>
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.			
<b>SCI 0261/0262</b>	<b>General Chemistry</b>	<b>10-12</b>	<b>1/2 Credit</b>
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.			
<b>SCIC 261/262</b>	<b>Cambridge IGCSE Chemistry 0620</b>	<b>10-12</b>	<b>1/2 Credit</b>
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: <a href="http://Cambridge international.org">Cambridge international.org</a> ) *Fee: \$5.00 per semester.			

## KHS Course Guide

# Science

<u>Course #</u>	<u>Title</u>	<u>Grade Level</u>	<u>Credits per Semester</u>
<b>SCIC 271/272</b>	<b>Cambridge AS Biology 9700</b>	<b>11-12</b>	<b>1/2 Credit</b>
<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>			
<b>SCI 0341/0342</b>	<b>Anatomy and Physiology A/B</b>	<b>11-12</b>	<b>1/2 Credit</b>
<p>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</p>			
<b>SCIC 371/C372</b>	<b>Cambridge AS Physics 9702</b>	<b>11-12</b>	<b>1/2 Credit</b>
<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>			
<b>SCIC 471/C472</b>	<b>Cambridge A Physics 9702</b>	<b>12</b>	<b>1/2 Credit</b>
<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) Perquisite: Cambridge AS Physics</p>			
<b>SCIC 471/C472</b>	<b>Cambridge AS Chemistry 9701</b>	<b>11-12</b>	<b>1/2 Credit</b>
<p>Cambridge International AS &amp; 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>
<b>SSCC 261/C262</b>	<b>Cambridge IGCSE American History 0409</b>	<b>9</b>	<b>1/2 Credit</b>
<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: <a href="http://Cambridge international.org">Cambridge international.org</a>)</p>			
<b>SSC 0201/0202</b>	<b>World History and Geography</b>	<b>10-12</b>	<b>1 /2 Credit</b>
<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>			
<b>SSC 0321/0322</b>	<b>US History</b>	<b>10-12</b>	<b>1/2 Credit</b>
<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>			
<b>SSCC 161/C162</b>	<b>Cambridge IGCSE World History 0416</b>	<b>10</b>	<b>1/2 Credit</b>
<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: <a href="http://Cambridge international.org">Cambridge international.org</a>)</p>			

## KHS Course Guide

# Social Studies

<u>Course #</u>	<u>Title</u>	<u>Grade Level</u>	<u>Credits per Semester</u>
<b>SSC 0371/D372</b>	<b>Cambridge AS US History 9389</b>	<b>11-12</b>	<b>1/2 Credit</b>
<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: <a href="http://CambridgeInternational.org">CambridgeInternational.org</a>) <b>May be dual credit with MCC HIS131/132</b></p>			
<b>SSC 0450</b>	<b>Civics</b>	<b>12</b>	<b>1/2 Credit</b>
<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 <b>offered as dual credit with MCC HIS 131/HIS132.</b></p>			
<b>SSC 0460</b>	<b>Economics</b>	<b>12</b>	<b>1/2 Credit</b>
<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>			
<b>SSCC 0480</b>	<b>Cambridge AS Economics</b>	<b>12</b>	<b>1 /2 Credit</b>
<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: <a href="http://CambridgeInternational.org">CambridgeInternational.org</a>)</p>			
<b>SSCC 301/C302</b>	<b>Cambridge AS Global Perspectives 9239 A/B</b>	<b>11-12</b>	<b>1/2 Credit</b>
<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 <b>REQUIRED</b> for students seeking the AICE diploma through Cambridge. (Check out the Cambridge website for more information: <a href="http://Cambridgeinternational.org">Cambridgeinternational.org</a>.) Credit ELA or HST.</p>			

# Other Electives

<u>Course #</u>	<u>Title</u>	<u>Grade Level</u>	<u>Credits per Semester</u>
<b>YBK 0101/0102</b>	<b>Yearbook</b>	<b>9-12</b>	<b>1/2 Credit</b>
<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>			

# Foreign Language

<u>Course #</u>	<u>Title</u>	<u>Grade Level</u>	<u>Credits per Semester</u>
<b>LAN 0101/0102</b>	<b>Spanish 1 A/B</b>	<b>9-12</b>	<b>1/2 Credit</b>
<p>This is a beginning study of Spanish with an emphasis on vocabulary and basic grammar. (LAN0101 must be completed before LAN0102)</p>			
<b>LAN 0201/0202</b>	<b>Spanish 2 A/B</b>	<b>10-12</b>	<b>1/2 Credit</b>
<p>This is a continuation of Spanish 1 with emphasis on vocabulary, more complex grammar, writing and conversation. (LAN0201 must be completed before LAN0202). Prerequisite: LAN0102</p>			

# Fine & Performing Arts

<u>Course #</u>	<u>Title</u>	<u>Grade Level</u>	<u>Credits per Semester</u>
<b>MUS 0150</b>	<b>Concert Choir</b>	<b>9-12</b>	<b>1/2 Credit</b>
<p>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.</p>			
<b>MUS 0250</b>	<b>Advanced Choir</b>	<b>10-12</b>	<b>1/2 Credit</b>
<p>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.</p>			

# Fine & Performing Arts

<u>Course #</u>	<u>Title</u>	<u>Grade Level</u>	<u>Credits per Semester</u>
<b>MUS 0101</b>	<b>Flag Line</b>	<b>9-12</b>	<b>1/2 Credit</b>
<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>			
<b>MUS 0120</b>	<b>Concert Band</b>	<b>9-12</b>	<b>1/2 Credit</b>
<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. Previous instrumental experience is required.</p>			
<b>MUS 0110</b>	<b>Band Percussion</b>	<b>9-12</b>	<b>1/2 Credit</b>
<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>			
<b>MUS 0140</b>	<b>Band Jazz 1</b>	<b>9-12</b>	<b>1/2 Credit</b>
<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>			
<b>MUS 0160</b>	<b>Guitar A/B</b>	<b>9-12</b>	<b>1/2 Credit</b>
<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>			

# Fine & Performing Arts

## Art/Photography

<u>Course #</u>	<u>Title</u>	<u>Grade Level</u>	<u>Credits per Semester</u>
<b>INF 0151/0152</b>	<b>Art and Design A/B</b>	<b>9-12</b>	<b>1/2 Credit</b>
Students start with this introductory course that will combine several elements of traditional and commercial art along with photography. 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. Owning your own digital camera is recommended. This is the first step to becoming a program completer. <b>*Lab fee: \$15/semester</b>			
<b>ART 0201/0202</b>	<b>Art 2 A/B</b>	<b>10-12</b>	<b>1/2 Credit</b>
Several new media will be introduced, with opportunities to choose subject matter for several projects. Prerequisite: ART0101 <b>*Lab fee: \$15/semester</b>			
<b>ART 0300</b>	<b>Advanced Art A/B</b>	<b>11-12</b>	<b>1/2 Credit</b>
Concentration on development of individual techniques in one or more media. Prerequisite: ART0202. <b>*Lab fee: \$15/semester</b>			
<b>INF 0201/0202</b>	<b>Digital Photography A/B</b>	<b>10-12</b>	<b>1/2 Credit</b>
This course is designed for the novice photographer, someone who will enjoy shooting and digitally producing photographs that incorporate the elements of composition and design. Adobe Photoshop software is used. Owning your own digital camera is recommended. Following this class with Advanced Photo will lead to being a program completer in the Digital Photography program. <b>*Lab fee: \$25/semester</b>			
<b>INF 0301/0302</b>	<b>Advanced Digital Photo A/B</b>	<b>11-12</b>	<b>1/2 Credit</b>
Apply the knowledge learned in Photography. Learn special techniques and effects when working on a variety of different rotating assignments. These rotating assignment may include: portraiture, lighting, scanning and SLR manipulation. Students will continue to improve their skills in Adobe Photoshop along with developing a portfolio and investigating careers in the industry. Photographing school events and special projects may be used to expand student skills. Owning your own digital camera is recommended. <b>Prerequisite: INF0202. *Lab fee: \$25/semester.</b>			

## Physical Education

<u>Course #</u>	<u>Title</u>	<u>Grade Level</u>	<u>Credits per Semester</u>
<b>PED 0110</b>	<b>PE Beginning/Health</b>	<b>9</b>	<b>1/2 Credit</b>
<p>All students will participate in various team and individual sports. These classes address: development of a cardiovascular fitness program, the significance of flexibility and how to attain it, and the importance of team play and sportsmanship. All sports will be addressed with a sound, developmental teaching style. These class offerings will allow the students to increase both their knowledge of the game, as well as their ability to perform proper techniques and strategies. Students will participate in a variety of sports, such as, pickle ball, badminton, archery, softball, hockey, football, basketball, volleyball, and soccer as well as pre and post physical fitness testing.</p>			
<b>PEDU 112</b>	<b>Unified Sports A/B</b>	<b>9-12</b>	<b>1/2 Credit</b>
<p>An inclusive year long program for grades 9-12 which combines individuals with intellectual/physical disabilities (athletes) and individuals without intellectual disabilities (partners) on sport teams for training and competition. Athletes and partners compete alongside one another each in a meaningful and integral role on a Unified Sports team.</p>			
<b>PED 0140</b>	<b>Cross Training/Body Works</b>	<b>10-12</b>	<b>1/2 Credit</b>
<p>Students will get a variety of fitness-based experiences. Each day of the week focuses on a different aspect of physical fitness, including cardio respiratory, endurance, weight training, and fitness-based circuit training. Various aspects of hydration and nutrition will be researched. This class can be repeated for credit; however, it can only be taken once per academic year unless written approval is given by instructor.</p>			
<b>PED 0221</b>	<b>Freshman Weight Training</b>	<b>9</b>	<b>1/2 Credit</b>
<p>This course introduces students to all types of resistance and fitness 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. Freshmen level only.</p>			
<b>PED0220</b>	<b>Weight Training</b>	<b>10-12</b>	<b>1/2 Credit</b>
<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. Prerequisite: PED0110.</p>			
<b>PED0210</b>	<b>PE Advanced Co-Ed</b>	<b>10-12</b>	<b>1/2 Credit</b>
<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. Must have 1 cr. of PE to take this course.</p>			

**\*\*\*All PE classes require a uniform shirt and \$5 class fee per semester.\*\*\***

# Guidance

⇒ Prerequisite: Instructor approval, 2.0 cumulative GPA. May not take with 2 hours of release time.

<u>Course #</u>	<u>Title</u>	<u>Grade Level</u>	<u>Credits per Semester</u>
-----------------	--------------	--------------------	-----------------------------

<b>GUI 0210</b>	<b>Student Assistant</b>	<b>10-12</b>	<b>1/2 Credit</b>
-----------------	--------------------------	--------------	-------------------

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.

<b>GUI 0330</b>	<b>Office Assistant</b>	<b>11-12</b>	<b>1/2 Credit</b>
-----------------	-------------------------	--------------	-------------------

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.

<b>GUI 0320</b>	<b>Lab Assistant</b>	<b>11-12</b>	<b>1/2 Credit</b>
-----------------	----------------------	--------------	-------------------

Work in a campus technology laboratory. Prerequisite: Teacher recommendation. Repeatable for credit.

<b>REL0010</b>	<b>Release Time 1st Hour</b>	<b>12</b>
<b>REL0060</b>	<b>Release Time 6th Hour</b>	<b>12</b>
<b>REL0120</b>	<b>Release Time 1st and 2nd Hour</b>	<b>12</b>
<b>REL0560</b>	<b>Release Time 5th and 6th Hour</b>	<b>12</b>

\*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 Student Support Coordinator's Office. 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.

# **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

## 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 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. Aangela 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](http://www.khs.kusd.org)



### **Contact Information**

#### **Kingman High School**

4182 N. Bank Street

Kingman, AZ 86409

Phone: 928-692-6480

Isaiah Ward, Principal - 928-692-6414

Sherry McKenzie, PhD Assistant Principal - 928-692-6444

John Venenga, Athletic Director - 928-692-6417

Walter Raines, TOA

#### **Guidance Department - 928-692-6446**

Emily Baker

Anne Bathauer -Casson

Connie Fitzsimmons

#### **Career and Technical Education**

Cassie Vroegh, Coordinator

928-692-6463

#### **Course catalogs will be posted online at:**

[www.khs.kusd.org](http://www.khs.kusd.org)

[www.waveCTED.org](http://www.waveCTED.org)

**Pathways to Success**

# Requirements for Academics Honors Diploma at KUSD

1. Students must complete three credits of Advanced Placement, Cambridge *A* or Cambridge *AS* .
2. Students must have a 3.25 GPA or higher.
3. Students must have completed 10 or more credits in the core subjects that are designated as honors-level courses during their 9<sup>th</sup>-12<sup>th</sup> grade years. Courses that are designated Honors, Cambridge, Dual Credit, or Advanced Placement fulfill this requirement. Two of these credits may come from the Talent and Interest Area.
4. The following courses are eligible for the Kingman High School or Lee Williams High School Honors Diploma. Course may be offered at one or both campuses.

## Approved Courses for Honors Diploma

### English

English Honors 1A-B  
English Honors 2A-B  
Cambridge English I A-B  
Cambridge English II A-B  
DC English 101-102  
AP English 3A-B  
AP English 4A-B  
DC English 236-234  
Cambridge *AS/A English/Literature*

### Math

Algebra 2 Honors  
Cambridge Mathematics  
Cambridge Additional Mathematics  
Geometry Honors  
DC College Algebra151  
DC Trigonometry 181  
Cambridge *AS/A Pure Mathematics*  
Pre-Calculus A-B  
AP Calculus A-B

### Science

Biology Honors  
Cambridge Biology  
Cambridge Chemistry  
Cambridge Physics  
Chemistry Honors A-B  
AP Chemistry A-B  
AP Biology A-B  
AP Physics A-B  
Cambridge *AS/A Physics*  
Cambridge *AS/A Chemistry*  
Cambridge *AS/A Biology*  
Biomedical Innovations A-B

### Social Studies

Cambridge World History  
Cambridge U. S. History  
World History/Geography Honors A-B  
Cambridge *AS/A History*  
Cambridge *AS/A Global Perspectives*  
AP World History A-B  
AP United States History A-B  
AP Macro Economics  
DC Civics POS120

### TALENT and INTEREST

#### Fine Arts

Advanced Choir  
Wind Ensemble  
Jazz Band 2  
Advanced Art  
Advanced Photo  
Advanced Technical Theatre Productions A-B

#### CTE Courses

DC CIS 110  
DC CIS 131  
DC CIS 145  
DC CIS 143  
DC ACC 125  
Woodworking 3A-B  
DC Welding 2  
Advanced Athletic Training A-B  
CADD A-B  
Early Childhood 3A-B  
DC Culinary 3  
Accounting 2A-B  
Certified Nursing Assistant  
Adv. Store Mgt. & Marketing A-B

#### Foreign Language

AP III & IV A-B-if program grows  
AP Spanish A-B  
AP German A-B  
AP French A-B

### Class of 2025

Credits	COURSES
4	MATH
4	ENGLISH
3	SCIENCE
3	SOCIAL STUDIES TO INCLUDE: WORLD GEOGRAPHY/HISTORY, US HISTORY, CIVICS, ECONOMICS
1	FINE ARTS or CTE
1.0	PHYSICAL EDUCATION
7-9	ELECTIVE CREDITS
<b>22</b>	<b>TOTAL GRADUATION REQUIREMENTS</b>

### Class of 2024

Credits	COURSES
4	MATH
4	ENGLISH
3	SCIENCE
3	SOCIAL STUDIES TO INCLUDE: WORLD GEOGRAPHY/HISTORY, US HISTORY, CIVICS, ECONOMICS
1	FINE ARTS or CTE
1.0	PHYSICAL EDUCATION
7-9	ELECTIVE CREDITS
<b>22</b>	<b>TOTAL GRADUATION REQUIREMENTS</b>

### Class of 2023

Credits	COURSES
4	MATH
4	ENGLISH
3	SCIENCE
3	SOCIAL STUDIES TO INCLUDE: WORLD GEOGRAPHY/HISTORY, US HISTORY, CIVICS, ECONOMICS
1	FINE ARTS/ OR CTE
1.0	PHYSICAL EDUCATION
7-9	ELECTIVE CREDITS
<b>22</b>	<b>TOTAL GRADUATION REQUIREMENTS</b>

### Class of 2022

Credits	COURSES
4	MATH
4	ENGLISH
3	SCIENCE
3	SOCIAL STUDIES TO INCLUDE: WORLD GEOGRAPHY/HISTORY, US HISTORY, CIVICS, ECONOMICS
1	FINE ARTS OR CTE
1.0	PHYSICAL EDUCATION
7-9	ELECTIVE CREDITS
<b>22</b>	<b>TOTAL GRADUATION REQUIREMENTS</b>