

# 2024-2025

# Course Catalog



**Career & Technical Education**  
**Cambridge Academy**

Pathways to Success

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# Lee Williams High School



Welcome as we prepare for the upcoming academic year! As we embark on this journey together, we are thrilled to introduce the diverse and enriching high school pathways available at our school. Our commitment to providing a well-rounded education is reflected in the array of opportunities designed to cater to every student's interests and aspirations.

## **Cambridge Pathways:**

At Lee Williams High School, we take pride in offering the esteemed Cambridge Pathways, an internationally recognized program that fosters academic excellence and prepares students for success in higher education. Students in the Cambridge Pathways will engage in a rigorous curriculum that emphasizes critical thinking, problem solving, and a global perspective. This Cambridge experience supports students in their CTE Pathways as well as being ready for the real world. The Cambridge program opens doors to prestigious universities worldwide and ensures that our graduates are well-equipped for the challenges of a rapidly changing global landscape.

## **Career and Technical Education (CTE) Pathways:**

In addition to academic excellence, we are equally committed to providing practical and hands-on experiences through our Career and Technical Education (CTE) Pathways. These pathways allow students to explore various career options, develop valuable skills, and gain real-world experience in fields such as technology, healthcare, business, and more. Our CTE programs are designed to prepare students for both college and careers, ensuring they have a competitive edge in the job market.

Whether your child is aspiring to pursue higher education through the Cambridge Pathways or seeking a career-focused approach through CTE, we believe in nurturing individual talents and helping each student discover their unique path to success.

Our dedicated faculty and comprehensive support services are here to guide and support students throughout their high school journey. We encourage you to explore the course catalog to learn more about the specific courses, opportunities, and resources available in each pathway.

*As partners in your child's education, we look forward to working together to cultivate a love for learning, personal growth, and success in their chosen pathways.*

*Here's to a fantastic academic year filled with exploration, growth, and achievement!*

## Lee Williams 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.

Lee Williams 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 [our website](#) or the [Cambridge International website](#).

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

## Career and Technical Education

Check out CTE pathways offered through [WAVE](#).

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

### **Broaden Lifelong Work and Education Options**

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

### **Acquire Life Skills That Apply to Any Career**

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

*Arizona secondary vocational programs were developed by the Arizona Department of Education (ADE), Career and Technical Education (CTE) for secondary schools. Lee Williams High School offers the following Career and Technical Education Programs through WAVE CTED and our on site CTE class offerings:*

- Automotive Services
- Business Management and Administrative Services
- Certified Production Technician (CPT)
- CIS (Computer Information Systems)
- Graphic/Web Design
- Fire Science
- Health Information Technician
- Nursing Services
- Law and Public Safety
- Sports Medicine and Rehabilitation Services
- Stagecraft
- Visual Communications (Design)

## 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.

## Senior Honors

**Cambridge Stole:** A Cambridge student must meet the following criteria in order to wear a Cambridge Stole at Commencement. Qualify for the Grand Canyon High School Diploma AND/OR

1. be a senior who completes a full Cambridge course (Ex. AS Econ, AS Global Perspectives, AS Literature, AS Language, AS or A Physics, AS Mathematics, AS General Paper)
2. have 3 or more years in Cambridge (with at least 6 Cambridge classes on transcript)
3. be in good academic standing (No Ds or Fs in Cambridge classes)
4. sit for at least one exam for three years

**CTE Program Cords:** To earn a CTE Program Cord, students must complete and pass the required number of courses/credits to be a program completer in each CTE program as determined by the Arizona Department of Education.

**CTSO Cords/Stoles:** Each Career and Technical Student Organization (CTSO) is responsible for outlining the requirements for CTSO cords and stoles within their CTSO bylaws. Each CTSO has different cord and stole requirements that may change annually as these are student led organizations. If a student has questions about CTSO cords, the student should talk to their CTSO advisor. CTSO Cords/Stoles will be awarded at an event planned by the CTSO.

**TSA Cord:** To earn a TSA Cord, students must be a program completer and successfully pass the Technical Skills Assessment within the prospective program.

**WAVE Cord:** To earn a WAVE Cord, students must complete a program with WAVE through their central programs or their MCC CTE programs.

## Fee Schedule

Course Title	Fee Amount
A Physics 2A	\$5
Adv. Drama Productions A	\$15
Adv. Graphic Arts A	\$5
Adv. P.E.	\$5
Anatomy & Physiology A	\$5
Art 2A	\$15
Art Advanced	\$15
AS Physics A	\$5
AS/A Level Biology A	\$5
Biology 1 A	\$5
Chemistry A	\$5
Cross Training	\$5
Dance & Aerobics	\$5
Drama 1A	\$10
Earth Science A	\$5
Graphic Arts A	\$5
IGCSE Biology A	\$5
IGCSE Chemistry A	\$5
Studio Arts and Graphic Design 1	\$15
PE/Health A	\$5
Weight Training A	\$5

\*\*\*Fee list can change based on courses being offered each year.

## AICE and Grand Canyon Diploma

The Lee Williams 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:

- Seven Cambridge credits to include one exam from each of the 3 subject groups and AS Global Perspectives
- Advanced subsidiary (AS) Level exams = 1 credit
- Advanced (A) Level exams = 2 credits
- Students who complete 7 ACIE credits can achieve the AICE Diploma

## 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

## 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 Annual de No Discriminación (Spanish Version)

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

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



**Title II/IX Compliance Coordinator**

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

**Section 504 Coordinator**

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

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

## Get Involved and Stay in School!

Lee Williams 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 AIMS preparation.

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

Look to the [LWHS Website](#) for up to date information.

## Contact Information

**Lee Williams High School**

400 Grandview Avenue  
Kingman, AZ 86401  
Phone: 928-718-6000

Jennifer Hannan, Principal's Office 928-718-2412  
Shane Murray, Discipline Office 928-718-2417  
Michael Dietz, Athletic Director's Office 928-718-2417

**Guidance Department - 928-718-2411**

Wendy Hayes  
Kim Richhart  
Jessica Waters

**Career and Technical Education - 928-692-6463**

Lindsay Wolsey, Coordinator

**Advanced Learning Programs - 928-753-5678**

Margaret Stevenson, Coordinator

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

<https://lwhs.kusd.org>

<https://www.wavejted.org>

# High School Pathways

## Automotive Services Pathway

### Automotive Services Pathway Planner

**Degree Type** High School Diploma

Check out Major Clarity to explore careers in the [Automotive Services Pathway](#).

Semester A + Semester B courses from the same subject area = 1.0 credit

One Semester courses (indicated below) = 0.5 credit

Choose between Traditional Courses and Cambridge Courses:

#### Traditional Courses

##### English

English credits required for graduation: 4.0.

Title	Credits	Required
English 1A/B	1.0 (0.5 Credits Per Semester)	√
English 2 A/B	1.0 (0.5 Credits Per Semester)	√
English 3A & 3B or AS General Paper A & B	1	√
English 4A & 4B or AS General Paper A & B	1	√

##### Math

Math credits required for graduation: 4.0

Title	Credits	Required
Integrated Math 1 A/B	1.0 (0.5 Credits Per Semester)	√
Integrated Math 2 A/B	1.0 (0.5 Credits Per Semester)	√
Integrated Math 3 A/B	1.0 (0.5 Credits Per Semester)	√
Personal Finance A/B	1.0 (0.5 Credits Per Semester)	
Pre-Calculus A/B	1.0 (0.5 Credits Per Semester)	
DC Intermediate Algebra	0.5 (Per Semester)	
DC College Mathematics	0.5 (Per Semester)	
DC College Algebra	0.5 (Per Semester)	
DC Trigonometry	0.5 (Per Semester)	

##### Science

Science credits required for graduation: 3.0

Title	Credits	Required
Integrated Science A/B	1.0 (0.5 Credits Per Semester)	
Biology A/B	1.0 (0.5 Credits Per Semester)	
Chemistry A/B	1.0 (0.5 Credits Per Semester)	
Anatomy and Physiology A/B	1.0 (0.5 Credits Per Semester)	
Earth Science A/B	1.0 (0.5 Credits Per Semester)	
Environmental Science	0.5 (Per Semester)	
Astronomy	0.5 (Per Semester)	

## Social Studies

Social Studies credits required for graduation: 3.0

Title	Credits	Required
US History A/B	1.0 (0.5 Credits Per Semester)	√
World History and Geography A/B	1.0 (0.5 Credits Per Semester)	√
Civics or DC Civics (1 semester)	0.5	√
Economics	0.5 (Per Semester)	√

## Cambridge Courses

### English

English credits required for graduation: 4.0

Title	Credits	Required
Cambridge IGCSE First Language English A/B	1.0 (0.5 Credits Per Semester)	√
Cambridge IGCSE English Literature A/B	1.0 (0.5 Credits Per Semester)	√
AS/DC English 3A & 3B or AS General Paper A & B	1	√
AS/DC English 4A & 4B or AS General Paper A & B	1	√

### Math

Math credits required for graduation: 4.0

Title	Credits	Required
Cambridge IGCSE Math Year 1 A/B (IGCSE Algebra I)	1.0 (0.5 Credits Per Semester)	√
Cambridge Math Year 2 A/B (IGCSE Geometry)	1.0 (0.5 Credits Per Semester)	√
IGCSE Additional Math A/B (Algebra II)	1.0 (0.5 Credits Per Semester)	√
Cambridge AS Math A/B	1.0 (0.5 Credits Per Semester)	
DC Intermediate Algebra	0.5 (Per Semester)	
DC College Mathematics	0.5 (Per Semester)	
DC College Algebra	0.5 (Per Semester)	
DC Trigonometry	0.5 (Per Semester)	

### Science

Science credits required for graduation: 3.0

Title	Credits	Required
Cambridge IGCSE Biology 0610 A/B	1.0 (0.5 Credits Per Semester)	√
Cambridge IGCSE Chemistry 0620 A/B	1.0 (0.5 Credits Per Semester)	√
Cambridge AS Biology 9700 A/B	1.0 (0.5 Credits Per Semester)	
Cambridge AS Physics 9702 A/B	1.0 (0.5 Credits Per Semester)	

## Social Studies

Social Studies credits required for graduation: 3.0

Title	Credits	Required
Cambridge IGCSE American History 0409 A/B	1.0 (0.5 Credits Per Semester)	√
Cambridge IGCSE World History 0470 A/B	1.0 (0.5 Credits Per Semester)	√
Cambridge AS US History 9489 A/B	1.0 (0.5 Credits Per Semester)	
Cambridge AS Economics 9708	0.5 (Per Semester)	√
DC Civics	0.5 (Per Semester)	√

## Fine Arts or CTE and Electives are required:

### Fine Arts or CTE

Fine Arts or CTE credits required for graduation: 1.0

Title	Credits	Required
Choose 1 credit of Fine Arts or CTE courses	1	√

### Electives

Electives credits required for graduation: 7.0

Title	Credits	Required
Automotive Technologies I	1.0 (Block Class (2 periods in a row))	√
Auto Technologies II	1.0 (Block Class (2 periods in a row))	√
Auto Technologies III	1.0 (Block Class (2 periods in a row))	√

All students will choose additional elective credits from the Electives Course page of the course catalog.

Automotive Technology courses are available starting Sophomore year. Courses are in a block schedule and are completed in 3 semesters.

*Optional related WAVE pathways @ MCC:*

- Collision Repair Technology including Certificates in Bodywork, Refinishing, and Estimating
- Automotive Technology including Certificates in Basic & Advanced
- AS/A level courses may be eligible for college credit by examination
- University bound students may not take Personal Finance A & B

Total Credits	22
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## Business Management Pathway

**Business Management Pathway Planner****Degree Type** High School DiplomaCheck out Major Clarity to explore careers in the [Business Management Pathway](#).

Semester A + Semester B courses from the same subject area = 1.0 credit

One Semester courses (indicated below) = 0.5 credit

Choose between Traditional Courses and Cambridge Courses:

**Traditional Courses****English**

English credits required for graduation: 4.0.

<b>Title</b>	<b>Credits</b>	<b>Required</b>
English 1A/B	1.0 (0.5 Credits Per Semester)	√
English 2 A/B	1.0 (0.5 Credits Per Semester)	√
English 3A & 3B or AS General Paper A & B	1	√
English 4A & 4B or AS General Paper A & B	1	√

**Math**

Math credits required for graduation: 4.0

<b>Title</b>	<b>Credits</b>	<b>Required</b>
Integrated Math 1 A/B	1.0 (0.5 Credits Per Semester)	√
Integrated Math 2 A/B	1.0 (0.5 Credits Per Semester)	√
Integrated Math 3 A/B	1.0 (0.5 Credits Per Semester)	√
Personal Finance A/B	1.0 (0.5 Credits Per Semester)	
Pre-Calculus A/B	1.0 (0.5 Credits Per Semester)	
DC Intermediate Algebra	0.5 (Per Semester)	
DC College Mathematics	0.5 (Per Semester)	
DC College Algebra	0.5 (Per Semester)	
DC Trigonometry	0.5 (Per Semester)	

**Science**

Science credits required for graduation: 3.0

<b>Title</b>	<b>Credits</b>	<b>Required</b>
Integrated Science A/B	1.0 (0.5 Credits Per Semester)	
Biology A/B	1.0 (0.5 Credits Per Semester)	
Chemistry A/B	1.0 (0.5 Credits Per Semester)	
Anatomy and Physiology A/B	1.0 (0.5 Credits Per Semester)	
Earth Science A/B	1.0 (0.5 Credits Per Semester)	
Environmental Science	0.5 (Per Semester)	
Astronomy	0.5 (Per Semester)	

## Social Studies

Social Studies credits required for graduation: 3.0

Title	Credits	Required
US History A/B	1.0 (0.5 Credits Per Semester)	√
World History and Geography A/B	1.0 (0.5 Credits Per Semester)	√
Civics or DC Civics (1 semester)	0.5	√
Economics	0.5 (Per Semester)	√

## Cambridge Courses

### English

English credits required for graduation: 4.0

Title	Credits	Required
Cambridge IGCSE First Language English A/B	1.0 (0.5 Credits Per Semester)	√
Cambridge IGCSE English Literature A/B	1.0 (0.5 Credits Per Semester)	√
AS/DC English 3A & 3B or AS General Paper A & B	1	√
AS/DC English 4A & 4B or AS General Paper A & B	1	√

### Math

Math credits required for graduation: 4.0

Title	Credits	Required
Cambridge IGCSE Math Year 1 A/B (IGCSE Algebra I)	1.0 (0.5 Credits Per Semester)	√
Cambridge Math Year 2 A/B (IGCSE Geometry)	1.0 (0.5 Credits Per Semester)	√
IGCSE Additional Math A/B (Algebra II)	1.0 (0.5 Credits Per Semester)	
Cambridge AS Math A/B	1.0 (0.5 Credits Per Semester)	
DC Intermediate Algebra	0.5 (Per Semester)	
DC College Mathematics	0.5 (Per Semester)	
DC College Algebra	0.5 (Per Semester)	
DC College Algebra	0.5 (Per Semester)	

### Science

Science credits required for graduation: 3.0

Title	Credits	Required
Cambridge IGCSE Biology 0610 A/B	1.0 (0.5 Credits Per Semester)	√
Cambridge IGCSE Chemistry 0620 A/B	1.0 (0.5 Credits Per Semester)	√
Cambridge AS Biology 9700 A/B	1.0 (0.5 Credits Per Semester)	
Cambridge AS Physics 9702 A/B	1.0 (0.5 Credits Per Semester)	

## Social Studies

Social Studies credits required for graduation: 3.0

Title	Credits	Required
Cambridge IGCSE American History 0409 A/B	1.0 (0.5 Credits Per Semester)	√
Cambridge IGCSE World History 0470 A/B	1.0 (0.5 Credits Per Semester)	√
Cambridge AS US History 9489 A/B	1.0 (0.5 Credits Per Semester)	
Cambridge AS Economics 9708	0.5 (Per Semester)	√
DC Civics	0.5 (Per Semester)	√

## Fine Arts or CTE and Electives are required:

### Fine Arts or CTE

Fine Arts or CTE credits required for graduation: 1.0

Title	Credits	Required
Choose 1 credit of Fine Arts or CTE courses	1	√

### Electives

Elective credits required for graduation: 7.0

Title	Credits	Required
Business Management 1 A/B	1.0 (0.5 Credits Per Semester)	√
Business Management 2 A/B	1.0 (0.5 Credits Per Semester)	√
Advanced Store Mgmt. & Marketing A/B	1.0 (0.5 Credits Per Semester)	

All students will choose additional elective credits from the Electives Course page of the course catalog.

*Optional related WAVE pathways @ MCC:*

- Bookkeeping Certificate
- Business & Entrepreneurship & E-Marketing Certificate
- Organizational Management Certificate
- Retail Management Certificate
- Computer Science: Professional Applications Certificate
  
- AS/A level courses may be eligible for college credit by examination
- University bound students may not take Personal Finance A & B

Total Credits	22
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## Fire Service Pathway

**Fire Service Pathway Planner****Degree Type** High School DiplomaCheck out Major Clarity to explore careers in the [Fire Service Pathway](#).

Semester A + Semester B courses from the same subject area = 1.0 credit

One Semester courses (indicated below) = 0.5 credit

Choose between Traditional Courses and Cambridge Courses:

**Traditional Courses****English**

English credits required for graduation: 4.0

Title	Credits	Required
English 1A/B	1.0 (0.5 Credits Per Semester)	√
English 2 A/B	1.0 (0.5 Credits Per Semester)	√
English 3A & 3B or AS General Paper A & B	1	√
English 4A & 4B or AS General Paper A & B	1	√

**Math**

Math credits required for graduation: 4.0

Title	Credits	Required
Integrated Math 1 A/B	1.0 (0.5 Credits Per Semester)	√
Integrated Math 2 A/B	1.0 (0.5 Credits Per Semester)	√
Integrated Math 3 A/B	1.0 (0.5 Credits Per Semester)	√
Personal Finance A/B	1.0 (0.5 Credits Per Semester)	
Pre-Calculus A/B	1.0 (0.5 Credits Per Semester)	
DC Intermediate Algebra	0.5 (Per Semester)	
DC College Mathematics	0.5 (Per Semester)	
DC College Algebra	0.5 (Per Semester)	
DC Trigonometry	0.5 (Per Semester)	

**Science**

Science credits required for graduation: 3.0

Title	Credits	Required
Biology A/B	1.0 (0.5 Credits Per Semester)	√
Chemistry A/B	1.0 (0.5 Credits Per Semester)	√
Anatomy and Physiology A/B	1.0 (0.5 Credits Per Semester)	√
Earth Science A/B	1.0 (0.5 Credits Per Semester)	

## Social Studies

Social Studies credits required for graduation: 3.0

Title	Credits	Required
US History A/B	1.0 (0.5 Credits Per Semester)	√
World History and Geography A/B	1.0 (0.5 Credits Per Semester)	√
Civics or DC Civics (1 semester)	0.5	√
Economics	0.5 (Per Semester)	√

## Cambridge Courses

### English

English credits required for graduation: 4.0

Title	Credits	Required
Cambridge IGCSE First Language English A/B	1.0 (0.5 Credits Per Semester)	√
Cambridge IGCSE English Literature A/B	1.0 (0.5 Credits Per Semester)	√
AS/DC English 3A & 3B or AS General Paper A & B	1	√
AS/DC English 4A & 4B or AS General Paper A & B	1	√

### Math

Math credits required for graduation: 4.0

Title	Credits	Required
Cambridge IGCSE Math Year 1 A/B (IGCSE Algebra I)	1.0 (0.5 Credits Per Semester)	√
Cambridge Math Year 2 A/B (IGCSE Geometry)	1.0 (0.5 Credits Per Semester)	√
IGCSE Additional Math A/B (Algebra II)	1.0 (0.5 Credits Per Semester)	√
Cambridge AS Math A/B	1.0 (0.5 Credits Per Semester)	
DC Intermediate Algebra	0.5 (Per Semester)	
DC College Mathematics	0.5 (Per Semester)	
DC College Algebra	0.5 (Per Semester)	
DC Trigonometry	0.5 (Per Semester)	

### Science

Science credits required for graduation: 3.0

Title	Credits	Required
Cambridge IGCSE Biology 0610 A/B	1.0 (0.5 Credits Per Semester)	√
Cambridge IGCSE Chemistry 0620 A/B	1.0 (0.5 Credits Per Semester)	√
Cambridge AS Biology 9700 A/B	1.0 (0.5 Credits Per Semester)	
Cambridge AS Physics 9702 A/B	1.0 (0.5 Credits Per Semester)	

## Social Studies

Social Studies credits required for graduation: 3.0

Title	Credits	Required
Cambridge IGCSE American History 0409 A/B	1.0 (0.5 Credits Per Semester)	√
Cambridge IGCSE World History 0470 A/B	1.0 (0.5 Credits Per Semester)	√
Cambridge AS US History 9489 A/B	1.0 (0.5 Credits Per Semester)	
Cambridge AS Economics 9708	0.5 (Per Semester)	√
DC Civics	0.5 (Per Semester)	√

## Fine Arts or CTE and Electives are required:

### Fine Arts or CTE

Fine Arts or CTE credits required for graduation: 1.0

Title	Credits	Required
Choose 1 credit of Fine Arts or CTE courses	1	√

### Electives

Electives credits required for graduation: 7.0

Title	Credits	Required
Medical Foundations A/B	1.0 (0.5 Credits Per Semester)	
Fire Service A/B	1.0 (0.5 Credits Per Semester)	
Fire Service Advanced Applications A/B	1.0 (0.5 Credits Per Semester)	

All students will choose additional elective credits from the Electives Course page of the course catalog.

#### *Optional related WAVE pathways:*

- WAVE Fire Academy
- NREMT Certificate
- Fire Fighter Certificate
  
- AS/A level courses may be eligible for college credit by examination
- University bound students may not take Personal Finance A & B

Total Credits	22
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Graphic Design Pathway

# Graphic Design Pathway Planner

**Degree Type** High School Diploma

Check out Major Clarity to explore careers in the [Graphic Design Pathway](#).

Semester A + Semester B courses from the same subject area = 1.0 credit  
 One Semester courses (indicated below) = 0.5 credit

## Choose between Traditional Courses and Cambridge Courses:

### Traditional Courses

#### English

English credits required for graduation: 4.0

Title	Credits	Required
English 1A/B	1.0 (0.5 Credits Per Semester)	√
English 2 A/B	1.0 (0.5 Credits Per Semester)	√
English 3A & 3B or AS General Paper A & B	1	√
English 4A & 4B or AS General Paper A & B	1	√

#### Math

Math credits required for graduation: 4.0

Title	Credits	Required
Integrated Math 1 A/B	1.0 (0.5 Credits Per Semester)	√
Integrated Math 2 A/B	1.0 (0.5 Credits Per Semester)	√
Integrated Math 3 A/B	1.0 (0.5 Credits Per Semester)	√
Personal Finance A/B	1.0 (0.5 Credits Per Semester)	
Pre-Calculus A/B	1.0 (0.5 Credits Per Semester)	
DC Intermediate Algebra	0.5 (Per Semester)	
DC College Mathematics	0.5 (Per Semester)	
DC College Algebra	0.5 (Per Semester)	
DC Trigonometry	0.5 (Per Semester)	

#### Science

Science credits required for graduation: 3.0

Title	Credits	Required
Integrated Science A/B	1.0 (0.5 Credits Per Semester)	
Biology A/B	1.0 (0.5 Credits Per Semester)	
Chemistry A/B	1.0 (0.5 Credits Per Semester)	
Anatomy and Physiology A/B	1.0 (0.5 Credits Per Semester)	
Earth Science A/B	1.0 (0.5 Credits Per Semester)	
Environmental Science	0.5 (Per Semester)	
Astronomy	0.5 (Per Semester)	

## Social Studies

Social Studies credits required for graduation: 3.0

Title	Credits	Required
US History A/B	1.0 (0.5 Credits Per Semester)	√
World History and Geography A/B	1.0 (0.5 Credits Per Semester)	√
Civics or DC Civics (1 semester)	0.5	√
Economics	0.5 (Per Semester)	√

## Cambridge Courses

### English

English credits required for graduation: 4.0

Title	Credits	Required
Cambridge IGCSE First Language English A/B	1.0 (0.5 Credits Per Semester)	√
Cambridge IGCSE English Literature A/B	1.0 (0.5 Credits Per Semester)	√
AS/DC English 3A & 3B or AS General Paper A & B	1	√
AS/DC English 4A & 4B or AS General Paper A & B	1	√

### Math

Math credits required for graduation: 4.0

Title	Credits	Required
Cambridge IGCSE Math Year 1 A/B (IGCSE Algebra I)	1.0 (0.5 Credits Per Semester)	√
Cambridge Math Year 2 A/B (IGCSE Geometry)	1.0 (0.5 Credits Per Semester)	√
IGCSE Additional Math A/B (Algebra II)	1.0 (0.5 Credits Per Semester)	√
Cambridge AS Math A/B	1.0 (0.5 Credits Per Semester)	
DC Intermediate Algebra	0.5 (Per Semester)	
DC College Mathematics	0.5 (Per Semester)	
DC College Algebra	0.5 (Per Semester)	
DC Trigonometry	0.5 (Per Semester)	

### Science

Science credits required for graduation: 3.0

Title	Credits	Required
Cambridge IGCSE Biology 0610 A/B	1.0 (0.5 Credits Per Semester)	√
Cambridge IGCSE Chemistry 0620 A/B	1.0 (0.5 Credits Per Semester)	
Cambridge AS Biology 9700 A/B	1.0 (0.5 Credits Per Semester)	
Cambridge AS Physics 9702 A/B	1.0 (0.5 Credits Per Semester)	

## Social Studies

Social Studies credits required for graduation: 3.0

Title	Credits	Required
Cambridge IGCSE American History 0409 A/B	1.0 (0.5 Credits Per Semester)	√
Cambridge IGCSE World History 0470 A/B	1.0 (0.5 Credits Per Semester)	√
Cambridge AS US History 9489 A/B	1.0 (0.5 Credits Per Semester)	
Cambridge AS Economics 9708	0.5 (Per Semester)	√
DC Civics	0.5 (Per Semester)	√

## Fine Arts or CTE and Electives are required:

### Fine Arts or CTE

Fine Arts or CTE credits required for graduation: 1.0

Title	Credits	Required
Choose 1 credit of Fine Arts or CTE courses	1	√

### Electives

Electives credits required for graduation: 7.0

Title	Credits	Required
Graphic Arts 1 A/B	1.0 (0.5 Credits Per Semester)	√
Graphic Arts 2 A/B	1.0 (0.5 Credits Per Semester)	√
Computer Info Systems–Dual Credit CIS 110	0.5	

All students will choose additional elective credits from the Electives Course page of the course catalog.

*Optional related WAVE pathways @ MCC:*

- Graphics & Web Design Certificate
- Cybersecurity & Network Support Certificate
- Programming & Game Development Certificate
  
- AS/A level courses may be eligible for college credit by examination
- University bound students may not take Personal Finance A & B

Total Credits	22
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Law And Public Safety Pathway

# Law & Public Safety Pathway Planner

**Degree Type** High School Diploma

Check out Major Clarity to explore careers in the [Law & Public Safety Pathway](#).

Semester A + Semester B courses from the same subject area = 1.0 credit  
 One Semester courses (indicated below) = 0.5 credit

Choose between Traditional Courses and Cambridge Courses:

## Traditional Courses

### English

English credits required for graduation: 4.0

Title	Credits	Required
English 1A/B	1.0 (0.5 Credits Per Semester)	√
English 2 A/B	1.0 (0.5 Credits Per Semester)	√
English 3A & 3B or AS General Paper A & B	1	√
English 4A & 4B or AS General Paper A & B	1	√

### Math

Math credits required for graduation: 4.0

Title	Credits	Required
Integrated Math 1 A/B	1.0 (0.5 Credits Per Semester)	√
Integrated Math 2 A/B	1.0 (0.5 Credits Per Semester)	√
Integrated Math 3 A/B	1.0 (0.5 Credits Per Semester)	√
Personal Finance A/B	1.0 (0.5 Credits Per Semester)	
Pre-Calculus A/B	1.0 (0.5 Credits Per Semester)	
DC Intermediate Algebra	0.5 (Per Semester)	
DC College Mathematics	0.5 (Per Semester)	
DC College Algebra	0.5 (Per Semester)	
DC Trigonometry	0.5 (Per Semester)	

### Science

Science credits required for graduation: 3.0

Title	Credits	Required
Integrated Science A/B	1.0 (0.5 Credits Per Semester)	
Biology A/B	1.0 (0.5 Credits Per Semester)	
Chemistry A/B	1.0 (0.5 Credits Per Semester)	
Anatomy and Physiology A/B	1.0 (0.5 Credits Per Semester)	
Earth Science A/B	1.0 (0.5 Credits Per Semester)	
Environmental Science	0.5 (Per Semester)	
Astronomy	0.5 (Per Semester)	

## Social Studies

Social Studies credits required for graduation: 3.0

Title	Credits	Required
US History A/B	1.0 (0.5 Credits Per Semester)	√
World History and Geography A/B	1.0 (0.5 Credits Per Semester)	√
Civics or DC Civics (1 semester)	0.5	√
Economics	0.5 (Per Semester)	√

## Cambridge Courses

### English

English credits required for graduation: 4.0

Title	Credits	Required
Cambridge IGCSE First Language English A/B	1.0 (0.5 Credits Per Semester)	√
Cambridge IGCSE English Literature A/B	1.0 (0.5 Credits Per Semester)	√
AS/DC English 3A & 3B or AS General Paper A & B	1	√
AS/DC English 4A & 4B or AS General Paper A & B	1	√

### Math

Math credits required for graduation: 4.0

Title	Credits	Required
Cambridge IGCSE Math Year 1 A/B (IGCSE Algebra I)	1.0 (0.5 Credits Per Semester)	√
Cambridge Math Year 2 A/B (IGCSE Geometry)	1.0 (0.5 Credits Per Semester)	√
IGCSE Additional Math A/B (Algebra II)	1.0 (0.5 Credits Per Semester)	√
Cambridge AS Math A/B	1.0 (0.5 Credits Per Semester)	
DC Intermediate Algebra	0.5 (Per Semester)	
DC College Mathematics	0.5 (Per Semester)	
DC College Algebra	0.5 (Per Semester)	
DC Trigonometry	0.5 (Per Semester)	

### Science

Science credits required for graduation: 3.0

Title	Credits	Required
Cambridge IGCSE Biology 0610 A/B	1.0 (0.5 Credits Per Semester)	√
Cambridge IGCSE Chemistry 0620 A/B	1.0 (0.5 Credits Per Semester)	√
Cambridge AS Biology 9700 A/B	1.0 (0.5 Credits Per Semester)	
Cambridge AS Physics 9702 A/B	1.0 (0.5 Credits Per Semester)	

## Social Studies

Social Studies credits required for graduation: 3.0

Title	Credits	Required
Cambridge IGCSE American History 0409 A/B	1.0 (0.5 Credits Per Semester)	√
Cambridge IGCSE World History 0470 A/B	1.0 (0.5 Credits Per Semester)	√
Cambridge AS US History 9489 A/B	1.0 (0.5 Credits Per Semester)	
Cambridge AS Economics 9708	0.5 (Per Semester)	√
DC Civics	0.5 (Per Semester)	√



## Fine Arts or CTE and Electives are required:

### Fine Arts or CTE

Fine Arts or CTE credits required for graduation: 1.0

Title	Credits	Required
Choose 1 credit of Fine Arts or CTE courses	1	√

### Electives

Electives credits required for graduation: 7.0

Title	Credits	Required
Law and Public Safety/Security I A/B	1.0 (0.5 Credits Per Semester)	√
Law and Public Safety/Security II A/B	1.0 (0.5 Credits Per Semester)	√
Law and Public Safety/Security IIIA/B	1.0 (0.5 Credits Per Semester)	

All students will choose additional elective credits from the Electives Course page of the course catalog.

*Optional related WAVE pathways @ MCC:*

- Corrections Officer Certificate
- AS/A level courses may be eligible for college credit by examination
- University bound students may not take Personal Finance A & B

Total Credits	22
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## Nursing Services Pathway

**Nursing Pathway Planner**

Degree Type High School Diploma

Check out Major Clarity to explore careers in the [Nursing Pathway](#).

Semester A + Semester B courses from the same subject area = 1.0 credit

One Semester courses (indicated below) = 0.5 credit

**Choose between Traditional Courses and Cambridge Courses:****Traditional Courses****English**

English credits required for graduation: 4.0

Title	Credits	Required
English 1A/B	1.0 (0.5 Credits Per Semester)	√
English 2 A/B	1.0 (0.5 Credits Per Semester)	√
AS/DC English 3A & 3B or AS General Paper A & B	1	√
English 4A & 4B or AS General Paper A & B	1	√

**Math**

Math credits required for graduation: 4.0

Title	Credits	Required
Integrated Math 1 A/B	1.0 (0.5 Credits Per Semester)	√
Integrated Math 2 A/B	1.0 (0.5 Credits Per Semester)	√
Integrated Math 3 A/B	1.0 (0.5 Credits Per Semester)	√
Personal Finance A/B	1.0 (0.5 Credits Per Semester)	
DC Intermediate Algebra	0.5 (Per Semester)	
DC College Mathematics	0.5 (Per Semester)	√
DC College Algebra	0.5 (Per Semester)	
DC Trigonometry	0.5 (Per Semester)	

**Science**

Science credits required for graduation: 3.0

Title	Credits	Required
Biology A/B	1.0 (0.5 Credits Per Semester)	√
Chemistry A/B	1.0 (0.5 Credits Per Semester)	√
BIO 181 General Biology I (with Lab)	0.5	√
CHM 130 Fundamental Chemistry with Lab	0.5	√

## Social Studies

Social Studies credits required for graduation: 3.0

Title	Credits	Required
US History A/B	1.0 (0.5 Credits Per Semester)	√
World History and Geography A/B	1.0 (0.5 Credits Per Semester)	√
Civics or DC Civics (1 semester)	0.5	√
Economics	0.5 (Per Semester)	√

## Cambridge Courses

### English

English credits required for graduation: 4.0

Title	Credits	Required
Cambridge IGCSE First Language English A/B	1.0 (0.5 Credits Per Semester)	√
Cambridge IGCSE English Literature A/B	1.0 (0.5 Credits Per Semester)	√
AS/DC English 3A & 3B or AS General Paper A & B	1	√
AS/DC English 4A & 4B or AS General Paper A & B	1	√

### Math

Math credits required for graduation: 4.0

Title	Credits	Required
Cambridge IGCSE Math Year 1 A/B (IGCSE Algebra I)	1.0 (0.5 Credits Per Semester)	√
Cambridge Math Year 2 A/B (IGCSE Geometry)	1.0 (0.5 Credits Per Semester)	√
IGCSE Additional Math A/B (Algebra II)	1.0 (0.5 Credits Per Semester)	√
DC Intermediate Algebra	0.5 (Per Semester)	
DC College Mathematics	0.5 (Per Semester)	√
DC College Algebra	0.5 (Per Semester)	
DC Trigonometry	0.5 (Per Semester)	

### Science

Science credits required for graduation: 3.0

Title	Credits	Required
Cambridge IGCSE Biology 0610 A/B	1.0 (0.5 Credits Per Semester)	√
Cambridge IGCSE Chemistry 0620 A/B	1.0 (0.5 Credits Per Semester)	√
BIO 181 General Biology I (with Lab)	0.5	√
CHM 130 Fundamental Chemistry with Lab	0.5	√

## Social Studies

Social Studies credits required for graduation: 3.0

Title	Credits	Required
Cambridge IGCSE American History 0409 A/B	1.0 (0.5 Credits Per Semester)	√
Cambridge IGCSE World History 0470 A/B	1.0 (0.5 Credits Per Semester)	√
Cambridge AS US History 9489 A/B	1.0 (0.5 Credits Per Semester)	
Cambridge AS Economics 9708	0.5 (Per Semester)	√
DC Civics	0.5 (Per Semester)	√

Fine Arts or CTE and Electives are required:

Fine Arts or CTE

Fine Arts or CTE credits required for graduation: 1.0

Title	Credits	Required
Medical Foundations A/B	1.0 (0.5 Credits Per Semester)	√

Electives

Electives credits required for graduation: 7.0

Title	Credits	Required
Computer Info Systems—Dual Credit CIS 110	0.5	
PSY 101 Psychology	0.5	

WAVE Nursing Pathway:

**Practical Nursing (PN) Certificate requirements:**

Title	Credits	Required
BIO 201 Human Anatomy & Physiology I (1 semester)	0.5	
BIO 202 Human Anatomy & Physiology II (1 semester)	0.5	
NAP 115 Nursing Assistant (must be 16 years old) (1 semester)	0.5	
NUR 101 Fundamentals of Nursing Education (1 semester)	0.5	
NUR 103 Fundamentals of Nursing (1 semester)	0.5	
NUR 111 Medical Surgical Nursing I (1 semester)	0.5	
NUR 124 Pediatrics in Nursing (1 semester)	0.5	
NUR 125 Obstetrics in Nursing (1 semester)	0.5	
NUR 126 Mental Health Nursing (1 semester)	0.5	

Credits required: 4.5

WAVE Nursing Pathway:

**AAS Nursing Degree requirements (in addition to PN):**

Title	Credits	Required
BIO 205 Microbiology (1 semester)	0.5	
COM 121 Interpersonal Communications (1 semester)	0.5	
NUR 212 Medical Surgical Nursing II (1 semester)	0.5	

Credits required: 1.5

WAVE 13th year

Title	Credits	Required
Any PN or AAS courses not taken in high school	0.5	
NUR 213 Medical Surgical Nursing III	0.5	
NUR 250 Nursing Capstone	0.5	

Credits required: 1.5

- AS/A level courses may be eligible for college credit by examination
- HOP application required for course at MCC: BIO181, CHM130, BIO201, BIO202, BIO205, COM121
- University bound students may not take Personal Finance



## Sports Medicine And Rehabilitation Services Pathway

**Sports Medicine and Rehabilitation Pathway Planner****Degree Type** High School DiplomaCheck out Major Clarity to explore careers in the [Sports Medicine and Rehabilitation Pathway](#).

Semester A + Semester B courses from the same subject area = 1.0 credit

One Semester courses (indicated below) = 0.5 credit

## Choose between Traditional Courses and Cambridge Courses:

**Traditional Courses**

## English

English credits required for graduation: 4.0

Title	Credits	Required
English 1A/B	1.0 (0.5 Credits Per Semester)	√
English 2 A/B	1.0 (0.5 Credits Per Semester)	√
English 3A & 3B or AS General Paper A & B	1	√
English 4A & 4B or AS General Paper A & B	1	√

## Math

Math credits required for graduation: 4.0

Title	Credits	Required
Integrated Math 1 A/B	1.0 (0.5 Credits Per Semester)	√
Integrated Math 2 A/B	1.0 (0.5 Credits Per Semester)	√
Integrated Math 3 A/B	1.0 (0.5 Credits Per Semester)	√
Personal Finance A/B	1.0 (0.5 Credits Per Semester)	
Pre-Calculus A/B	1.0 (0.5 Credits Per Semester)	
DC Intermediate Algebra	0.5 (Per Semester)	
DC College Mathematics	0.5 (Per Semester)	
DC College Algebra	0.5 (Per Semester)	
DC Trigonometry	0.5 (Per Semester)	

## Science

Science credits required for graduation: 3.0

Title	Credits	Required
Integrated Science A/B	1.0 (0.5 Credits Per Semester)	
Biology A/B	1.0 (0.5 Credits Per Semester)	
Chemistry A/B	1.0 (0.5 Credits Per Semester)	
Anatomy and Physiology A/B	1.0 (0.5 Credits Per Semester)	

## Social Studies

Social Studies credits required for graduation: 3.0

Title	Credits	Required
US History A/B	1.0 (0.5 Credits Per Semester)	√
World History and Geography A/B	1.0 (0.5 Credits Per Semester)	√
Civics or DC Civics (1 semester)	0.5	√
Economics	0.5 (Per Semester)	√

## Cambridge Courses

### English

English credits required for graduation: 4.0

Title	Credits	Required
Cambridge IGCSE First Language English A/B	1.0 (0.5 Credits Per Semester)	√
Cambridge IGCSE English Literature A/B	1.0 (0.5 Credits Per Semester)	√
AS/DC English 3A & 3B or AS General Paper A & B	1	√
AS/DC English 4A & 4B or AS General Paper A & B	1	√

### Math

Math credits required for graduation: 4.0

Title	Credits	Required
Cambridge IGCSE Math Year 1 A/B (IGCSE Algebra I)	1.0 (0.5 Credits Per Semester)	√
Cambridge Math Year 2 A/B (IGCSE Geometry)	1.0 (0.5 Credits Per Semester)	√
IGCSE Additional Math A/B (Algebra II)	1.0 (0.5 Credits Per Semester)	√
Cambridge AS Math A/B	1.0 (0.5 Credits Per Semester)	
DC Intermediate Algebra	0.5 (Per Semester)	
DC College Mathematics	0.5 (Per Semester)	
DC College Algebra	0.5 (Per Semester)	
DC Trigonometry	0.5 (Per Semester)	

### Science

Science credits required for graduation: 3.0

Title	Credits	Required
Cambridge IGCSE Biology 0610 A/B	1.0 (0.5 Credits Per Semester)	√
Cambridge IGCSE Chemistry 0620 A/B	1.0 (0.5 Credits Per Semester)	√
Cambridge AS Biology 9700 A/B	1.0 (0.5 Credits Per Semester)	
Cambridge AS Physics 9702 A/B	1.0 (0.5 Credits Per Semester)	

## Social Studies

Social Studies credits required for graduation: 3.0

Title	Credits	Required
Cambridge IGCSE American History 0409 A/B	1.0 (0.5 Credits Per Semester)	√
Cambridge IGCSE World History 0470 A/B	1.0 (0.5 Credits Per Semester)	√
Cambridge AS US History 9489 A/B	1.0 (0.5 Credits Per Semester)	
Cambridge AS Economics 9708	0.5 (Per Semester)	√
DC Civics	0.5 (Per Semester)	√

## Fine Arts or CTE and Electives are required:

### Fine Arts or CTE

Fine Arts or CTE credits required for graduation: 1.0

Title	Credits	Required
Choose 1 credit of Fine Arts or CTE courses	1	√

### Electives

Electives credits required for graduation: 7.0

Title	Credits	Required
Medical Foundations A/B	1.0 (0.5 Credits Per Semester)	
Anatomy and Physiology A/B	1.0 (0.5 Credits Per Semester)	
IGCSE PE A/B	1.0 (0.5 Credits Per Semester)	
Sports Medicine 1 A/B	1.0 (0.5 Credits Per Semester)	√
Sports Medicine 2 A/B	1.0 (0.5 Credits Per Semester)	√
Sports Medicine III A/B	1.0 (0.5 Credits Per Semester)	
Lab Assistant A/B	1.0 (0.5 Credits Per Semester)	

All students will choose additional elective credits from the Electives Course page of the course catalog.

*Optional related WAVE pathways @ MCC:*

- Nursing Assistant Certificate
- NREMT Certificate (must be 18 years old)
  
- AS/A level courses may be eligible for college credit by examination
- University bound students may not take Personal Finance A & B

Total Credits	22
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Stagecraft Pathway

# Stagecraft Pathway Planner

**Degree Type** High School Diploma

Check out Major Clarity to explore careers in the [Stagecraft Pathway](#).

Semester A + Semester B courses from the same subject area = 1.0 credit  
 One Semester courses (indicated below) = 0.5 credit

## Choose between Traditional Courses and Cambridge Courses:

### Traditional Courses

#### English

English credits required for graduation: 4.0

Title	Credits	Required
English 1A/B	1.0 (0.5 Credits Per Semester)	√
English 2 A/B	1.0 (0.5 Credits Per Semester)	√
English 3A & 3B or AS General Paper A & B	1	√
English 4A & 4B or AS General Paper A & B	1	√

#### Math

Math credits required for graduation: 4.0

Title	Credits	Required
Integrated Math 1 A/B	1.0 (0.5 Credits Per Semester)	√
Integrated Math 2 A/B	1.0 (0.5 Credits Per Semester)	√
Integrated Math 3 A/B	1.0 (0.5 Credits Per Semester)	√
Personal Finance A/B	1.0 (0.5 Credits Per Semester)	
Pre-Calculus A/B	1.0 (0.5 Credits Per Semester)	
DC Intermediate Algebra	0.5 (Per Semester)	
DC College Mathematics	0.5 (Per Semester)	
DC College Algebra	0.5 (Per Semester)	
DC Trigonometry	0.5 (Per Semester)	

#### Science

Science credits required for graduation: 3.0

Title	Credits	Required
Integrated Science A/B	1.0 (0.5 Credits Per Semester)	
Biology A/B	1.0 (0.5 Credits Per Semester)	
Chemistry A/B	1.0 (0.5 Credits Per Semester)	
Anatomy and Physiology A/B	1.0 (0.5 Credits Per Semester)	
Earth Science A/B	1.0 (0.5 Credits Per Semester)	
Environmental Science	0.5 (Per Semester)	
Astronomy	0.5 (Per Semester)	

## Social Studies

Social Studies credits required for graduation: 3.0

Title	Credits	Required
US History A/B	1.0 (0.5 Credits Per Semester)	√
World History and Geography A/B	1.0 (0.5 Credits Per Semester)	√
Civics or DC Civics (1 semester)	0.5	√
Economics	0.5 (Per Semester)	√

## Cambridge Courses

### English

English credits required for graduation: 4.0

Title	Credits	Required
Cambridge IGCSE First Language English A/B	1.0 (0.5 Credits Per Semester)	√
Cambridge IGCSE English Literature A/B	1.0 (0.5 Credits Per Semester)	√
AS/DC English 3A & 3B or AS General Paper A & B	1	√
AS/DC English 4A & 4B or AS General Paper A & B	1	√

### Math

Math credits required for graduation: 4.0

Title	Credits	Required
Cambridge IGCSE Math Year 1 A/B (IGCSE Algebra I)	1.0 (0.5 Credits Per Semester)	√
Cambridge Math Year 2 A/B (IGCSE Geometry)	1.0 (0.5 Credits Per Semester)	√
IGCSE Additional Math A/B (Algebra II)	1.0 (0.5 Credits Per Semester)	√
Cambridge AS Math A/B	1.0 (0.5 Credits Per Semester)	
DC Intermediate Algebra	0.5 (Per Semester)	
DC College Mathematics	0.5 (Per Semester)	
DC College Algebra	0.5 (Per Semester)	
DC Trigonometry	0.5 (Per Semester)	

### Science

Science credits required for graduation: 3.0

Title	Credits	Required
Cambridge IGCSE Biology 0610 A/B	1.0 (0.5 Credits Per Semester)	√
Cambridge IGCSE Chemistry 0620 A/B	1.0 (0.5 Credits Per Semester)	√
Cambridge AS Biology 9700 A/B	1.0 (0.5 Credits Per Semester)	
Cambridge AS Physics 9702 A/B	1.0 (0.5 Credits Per Semester)	

## Social Studies

Social Studies credits required for graduation: 3.0

Title	Credits	Required
Cambridge IGCSE American History 0409 A/B	1.0 (0.5 Credits Per Semester)	√
Cambridge IGCSE World History 0470 A/B	1.0 (0.5 Credits Per Semester)	√
Cambridge AS US History 9489 A/B	1.0 (0.5 Credits Per Semester)	
Cambridge AS Economics 9708	0.5 (Per Semester)	√
DC Civics	0.5 (Per Semester)	√

## Fine Arts or CTE and Electives are required:

### Fine Arts or CTE

Fine Arts or CTE credits required for graduation: 1.0

Title	Credits	Required
Choose 1 credit of Fine Arts or CTE courses	1	√

### Electives

Electives credits required for graduation: 7.0

Title	Credits	Required
Stagecraft I A/B	1.0 (0.5 Credits Per Semester)	√
Stagecraft II A/B	1.0 (0.5 Credits Per Semester)	√
Stagecraft III A/B	1.0 (0.5 Credits Per Semester)	

All students will choose additional elective credits from the Electives Course page of the course catalog.

- AS/A level courses may be eligible for college credit by examination
- University bound students may not take Personal Finance A & B

Total Credits	22
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# Cambridge Academy

## Cambridge AICE Diploma Pathway Planner

**Degree Type** High School Diploma

This pathway is for students who want to earn the AICE diploma at the end of their senior year.

See the [AICE Diploma checklist](#) for exam requirements.

Although IGCSE courses are not required for the AICE diploma, they are recommended as preparation for advanced Cambridge courses.

Required courses are listed in order of prerequisites.  
All courses are 1.0 credits unless noted otherwise.

### Cambridge Courses

#### English

English credits required for graduation: 4.0.

Title	Credits	Required
Cambridge IGCSE First Language English A/B	1.0 (0.5 Credits Per Semester)	√
Cambridge IGCSE English Literature A/B	1.0 (0.5 Credits Per Semester)	√
Cambridge IGCSE Literature in English A/B	1.0 (0.5 Credits Per Semester)	
Cambridge AS English Language A/B	1.0 (0.5 Credits Per Semester)	√
Cambridge AS Literature in English A/B	1.0 (0.5 Credits Per Semester)	√
Cambridge AS General Paper A/B	1.0 (0.5 Credits Per Semester)	√

#### Math

Math credits required for graduation: 4.0

Title	Credits	Required
Cambridge IGCSE Math Year 1 A/B (IGCSE Algebra I)	1.0 (0.5 Credits Per Semester)	√
Cambridge Math Year 2 A/B (IGCSE Geometry)	1.0 (0.5 Credits Per Semester)	√
IGCSE Additional Math A/B (Algebra II)	1.0 (0.5 Credits Per Semester)	√
Cambridge AS Math A/B	1.0 (0.5 Credits Per Semester)	√

#### Science

Science credits required for graduation: 3.0

Title	Credits	Required
Cambridge IGCSE Biology 0610 A/B	1.0 (0.5 Credits Per Semester)	√
Cambridge IGCSE Chemistry 0620 A/B	1.0 (0.5 Credits Per Semester)	√
Cambridge AS Biology 9700 A/B	1.0 (0.5 Credits Per Semester)	
Cambridge AS Physics 9702 A/B	1.0 (0.5 Credits Per Semester)	

## Social Studies

Social Studies credits required for graduation: 3.0

Title	Credits	Required
Cambridge IGCSE American History 0409 A/B	1.0 (0.5 Credits Per Semester)	√
Cambridge IGCSE World History 0470 A/B	1.0 (0.5 Credits Per Semester)	√
Cambridge AS US History 9489 A/B	1.0 (0.5 Credits Per Semester)	√
DC Civics	0.5 (Per Semester)	√

## Fine Arts or CTE and Electives are required:

### Fine Arts or CTE

Fine Arts or CTE credits required for graduation: 1.0

Title	Credits	Required
Choose 1 credit of Fine Arts or CTE courses	1	√

### Electives

Electives credits required for graduation: 7.0

Title	Credits	Required
Cambridge AS Global Perspectives 9239 A/B	1.0 (0.5 Credits Per Semester)	√
IGCSE PE A/B	1.0 (0.5 Credits Per Semester)	
AS Sports & PE	1.0 (0.5 Credits Per Semester)	
IGCSE Spanish 1 A/B	1.0 (0.5 Credits Per Semester)	
AS/A Spanish 3 and 4	1.0 (0.5 Credits Per Semester)	
CTE/AS Digital Communication I A/B	1.0 (0.5 Credits Per Semester)	

*\*AS Global Perspectives A & B (core Cambridge exam requirement for AICE diploma).*

All students will choose additional elective credits from the Electives Course page of the course catalog.

## Exam Requirements

See [AICE Diploma Checklist](#)

- AS/A level courses may be eligible for college credit by examination
- University bound students must earn 2.0 credits of a Foreign Language

Total Credits	22
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# Cambridge Grand Canyon High School Diploma Pathway Planner

**Degree Type** High School Diploma

Required courses are listed in order of prerequisites.  
All courses are 1.0 credits unless noted otherwise.

## Cambridge Courses

### English

English credits required for graduation: 2.0

Title	Credits	Required
Cambridge IGCSE First Language English A/B	1.0 (0.5 Credits Per Semester)	√
Cambridge IGCSE English Literature A/B	1.0 (0.5 Credits Per Semester)	√

### End of Course Exam Requirements

IGCSE First Language English: B or higher  
IGCSE Literature: C or higher

### Math

Math credits required for graduation: 2.0

Title	Credits	Required
Cambridge IGCSE Math Year 1 A/B (IGCSE Algebra I)	1.0 (0.5 Credits Per Semester)	√
Cambridge Math Year 2 A/B (IGCSE Geometry)	1.0 (0.5 Credits Per Semester)	√

### End of Course Exam Requirements

IGCSE Math: C or higher

### Science

Science credits required for graduation: 2.0

Title	Credits	Required
Cambridge IGCSE Biology 0610 A/B	1.0 (0.5 Credits Per Semester)	√
Cambridge IGCSE Chemistry 0620 A/B	1.0 (0.5 Credits Per Semester)	√

### End of Course Exam Requirements

IGCSE Biology: C or higher  
IGCSE Chemistry: C or higher

### Social Studies

Social Studies credits required for graduation: 2.5

Title	Credits	Required
Cambridge IGCSE American History 0409 A/B	1.0 (0.5 Credits Per Semester)	√
Cambridge IGCSE World History 0470 A/B	1.0 (0.5 Credits Per Semester)	√
Cambridge AS Economics 9708	0.5 (Per Semester)	√

### End of Course Exam Requirements

IGCSE American History: C or higher  
IGCSE History: C or higher  
Economics: Optional exam

## Fine Arts or CTE and Electives are required:

### Fine Arts or CTE

Fine Arts or CTE credits required for graduation: 1.0

Title	Credits	Required
Choose 1 credit of Fine Arts or CTE courses	1	√

### **Cambridge End of Course Exam Requirements**

No exam requirement

### Additional Information

See [Cambridge Grand Canyon High School Diploma Checklist](#)

Options after earning the GCD:

- Graduate from high school as early as the end of the first semester of Junior year. This diploma may be used to enroll in a community college or technical school.
- Remain enrolled with KUSD for free Dual Enrollment courses with Mohave Community College and pursue the Cambridge AICE diploma.

Total Credits	9.5
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# Courses

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## Core Subjects

### English

#### **ENG 0101/0102: English 1A/B**

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 district-approved novels through which they acquire knowledge. (Cambridge IGCSE First Language English substitutes for this requirement).

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

9

#### **ENG 0201/0202: English 2 A/B**

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 a usable, mature vocabulary. In this sophomore level class, students will experience a number of district-approved novels as well as a variety of short stories, non-fiction texts, plays, and poetry selections. (Cambridge IGCSE Literature in English substitutes for this requirement).

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

10

#### **ENG 0301/0302: English 3 A/B**

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 literary text. (Cambridge AS or DC English 101/102 substitutes for this requirement).

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

11

#### **ENG 0401/0402: English 4 A/B**

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 British and contemporary literary pieces. This course is designed to explore practical applications of English skills. (Cambridge AS English Language 9093 or DC English 101/102 substitutes for this requirement).

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

12

#### **ENGC 161/162: Cambridge IGCSE First Language English A/B**

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.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

9

#### **Notes**

Check out the Cambridge website for more information:

[cambridge.org](http://cambridge.org)



**ENGC 261/262: Cambridge IGCSE English Literature A/B**

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.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

10

**Notes**

Check out the Cambridge website for more information: [cambridge.org](http://cambridge.org)

**ENGC 361/362: Cambridge AS English Language A/B**

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 students seeking the AICE diploma through Cambridge. May be dual credit with MCC DC ENG 101/102.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

11, 12

**Notes**

Check out the Cambridge website for more information: [cambridge.org](http://cambridge.org)

**ENGC 363/364: Cambridge AS General Paper A/B**

In the AS General Paper Course, students will consider topics within local and international contexts that appeal to their education and career interests. Students will have the opportunity to gain knowledge and understanding of issues in three broad topic areas: 1) Economic, historical, moral, political and social; 2) Science, including its history, philosophy, ethics, general principles and applications; environmental issues; technology and mathematics; 3) Literature, language, the arts, crafts, and the media. They should be able to draw upon knowledge and understanding gained from studying other subjects. Through the study of these broad topic areas, students develop effective reading and writing skills in English. They work with information, ideas and opinions. They analyze and evaluate opinions and ideas and learn how to build an argument. These skills are all highly transferable and will help students in other subjects they are studying, and equip them for higher education or employment. This course is recommended for the AICE diploma through Cambridge.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

11, 12

**Notes**

Check out the Cambridge website for more information: [cambridge.org](http://cambridge.org)

Credit by examination is possible.

**ENGC 371/372: Cambridge AS Literature in English A/B**

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.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

12

**Prerequisites**

C or better in AS English Language.

**Notes**

Check out the Cambridge website for more information: [cambridge.org](http://cambridge.org)

May be dual credit with MCC DC ENG 234/236. This course is recommended for the AICE diploma through Cambridge.

## Math

### **MAT 0111/0112: Integrated Math 1 A/B**

This is the first course in the three year Integrated Math series. The program focuses on combining Algebra and Geometry concepts in order to help students develop an understanding of how these concepts are implemented in the real world. This class is an introductory level. The concepts students will learn are solving equations, order of operations, graphing and reviewing basic geometric figures and concepts. This counts as the Algebra 1 credit required for graduation.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

9, 10

### **MAT 0211/0212: Integrated Math 2 A/B**

This is the second course in the three year Integrated Math series. The program focuses on combining Algebra and Geometry concepts in order to help students develop an understanding of how these concepts are implemented in the real world. This level is about developing and growing topics from year one. Integrated 2 solidifies equations and graphing while introducing trigonometry, transformations and congruent triangles. This counts as the Geometry credit required for graduation.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

10, 11, 12

### **MAT 0311/0312: Integrated Math 3 A/B**

This is the third course in the three year Integrated Math series. The program focuses on combining Algebra and Geometry concepts in order to help students develop an understanding of how these concepts are implemented in the real world. This level is about refining students' understanding and implementations of the mathematical concepts. Integrated 3 focuses on systems of equations, triangle proofs, polynomials and quadratics, while reviewing equations, exponents, graphing, and geometry concepts. This counts as the Algebra 2 credit required for graduation.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

11, 12

### **MAT 0351/0352: Pre-Calculus A/B**

This course is for students who would need to take significant math in college but aren't quite ready to take college classes now. First semester we will be covering factoring, polynomial functions, and sketching functions using parent graphs. Second semester focuses on trigonometric functions and trigonometric identities. Students considering this course should have passes their other 3 years of Math classes with a C or better, in order to be successful.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

11, 12

### **MAT 0361/0362: Personal Finance A/B**

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. This course fulfills the fourth mathematics credit needed for graduation

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

11, 12

### **MATC 121: DC Intermediate Algebra**

Intermediate Algebra extends and strengthens concepts covered in Beginning Algebra. Functions are introduced and integrated throughout the course where appropriate in the context of the following topics: linear equations, inequalities and graphs; absolute value equations and inequalities; operations on polynomials; rational expressions, equations and inequalities; radical expressions and equations; and quadratic equations, inequalities and graphs. Appropriate college placement score applies.

**Credits** 0.5 (Per Semester)

**Grade Level**

11, 12

### **MATC 142: DC College Mathematics**

College Mathematics applies practical knowledge of college-level mathematics to real-life problems. Topics include critical thinking, proportional reasoning, linear and exponential growth and decay, geometry, personal finance, probability, and statistics, with an emphasis on understanding concepts and their applications. College Math is recommended for students majoring in the liberal arts, elementary education, and the social sciences whose major does not require College Algebra or Precalculus.

**Credits** 0.5 (Per Semester)

**Grade Level**

11, 12

**Prerequisites**

Integrated Math 3 A/B or Cambridge Additional Math A/B

**MATC 161/162: Cambridge IGCSE Math Year 1 A/B (IGCSE Algebra I)**

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. Required for The Grand Canyon High School Diploma.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

9, 10, 11, 12

**Notes**

Check out the Cambridge website for more information: [cambridge.org](http://cambridge.org)

**MATC 261/262: Cambridge Math Year 2 A/B (IGCSE Geometry)**

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. The course is equivalent to a Geometry credit with supplemental Cambridge material to enrich and expand concepts. Required for The Grand Canyon High School Diploma.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

10, 11, 12

**Notes**

Check out the Cambridge website for more information: [cambridge.org](http://cambridge.org)

**MATC 361/362: IGCSE Additional Math A/B (Algebra II)**

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 equivalent to an Algebra II credit with supplemental Cambridge material to enrich and expand concepts.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

10, 11, 12

**Notes**

Check out the Cambridge website for more information: [cambridge.org](http://cambridge.org)

**MATC 371/372: Cambridge AS Math A/B**

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; and acquire the mathematical background necessary for further study in this or related subjects. Recommended for the Cambridge AICE diploma.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

11, 12

**Notes**

Check out the Cambridge website for more information: [cambridge.org](http://cambridge.org)

**MATD 351: DC College Algebra**

College Algebra is the study and analysis of linear, polynomial, exponential, and logarithmic functions, equations and inequalities, conic sections, systems of equations and matrices, and sequences and series, with an emphasis on problem solving and multiple representations.

**Credits** 0.5 (Per Semester)

**Grade Level**

11, 12

**Prerequisites**

Integrated Math 3 A/B or Cambridge Additional Math A/B

**MATD 351/352: College Algebra/Trigonometry A/B (MAT151/MAT181 Dual Enrollment)**

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 numbers and polar and parametric equations.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

11, 12

**Notes**

Appropriate college placement score applies.

**MATD 352: DC Trigonometry**

A study of the trigonometric functions and their graphs and inverses, trigonometric identities, and the applications of these functions to right and oblique triangles, vectors, complex numbers, and polar and parametric equations.

**Credits** 0.5 (Per Semester)

**Grade Level**

11, 12

**Prerequisites**

Integrated Math 3 A/B or Cambridge Additional Math A/B

**Science****SCI 0111/0112: Integrated Science A/B**

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

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

9

**Notes**

This class is for 9th grade students or students who have been granted permission from the instructor.

**SCI 0131/0132: Biology A/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.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

9, 10, 11, 12

**SCI 0221/0222: Earth Science A/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.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

10, 11, 12

**Prerequisites**

SCI0131 or SCI0112.

**SCI 0261/0262: Chemistry A/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.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

10, 11, 12

**Prerequisites**

MAT0122 and SCI0132.

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

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”.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

11, 12

**Prerequisites**

SCI0132 and SCI0262.

**SCI 251: Environmental Science**

In this semester long course, students will be introduced to ecology and the use of science-based solutions to current and future environmental issues and a look at how science can help properly manage the Earth for all inhabitants.

**Credits** 0.5 (Per Semester)

**Grade Level**

10, 11, 12

**Prerequisites**

Successful completion of at least 1 semester of Earth Science.

**SCI 252: Astronomy**

In this semester long class, students will be introduced to the scientific study of the Earth/Moon relationship, the terrestrial planets and moons, the gas/ice giant planets and moons, the stars (including our own star, the Sun) and beyond our solar system.

**Credits** 0.5 (Per Semester)

**Grade Level**

10, 11, 12

**Prerequisites**

Successful completion of at least 1 semester of Earth Science.

**SCIC 161/162: Cambridge IGCSE Biology 0610 A/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 The Grand Canyon High School Diploma.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

9, 10

**Notes**

Check out the Cambridge website for more information:

[cambridge.org](http://cambridge.org)

**SCIC 261/262: Cambridge IGCSE Chemistry 0620 A/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. Required for The Grand Canyon High School Diploma.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

10, 11, 12

**Fee**

\$5.00 per semester.

**Notes**

Check out the Cambridge website for more information:

[cambridge.org](http://cambridge.org)

**SCIC 271/272: Cambridge AS Biology 9700 A/B**

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. Recommended for the Cambridge AICE diploma.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

11, 12

**Notes**

Check out the Cambridge website for more information: [cambridge.org](http://cambridge.org)

\*\* Dependent on course requests. BIO 100 credit by examination

**SCIC 371/372: Cambridge AS Physics 9702 A/B**

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 students seeking the AICE diploma through Cambridge. Recommended for the Cambridge AICE diploma.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

11, 12

**Notes**

Check out the Cambridge website for more information: [cambridge.org](http://cambridge.org)

**Social Studies****SSC 0201/0202: World History and Geography A/B**

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 that begins 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.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

10, 11, 12

**SSC 0321/0322: US History A/B**

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 (AP US History substitutes for this requirement).

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

11, 12

**SSC 0450: Civics**

In this semester long class, students will learn about 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 dual credit with MCC POS 120.

**Credits** 0.5 (Per Semester)

**Grade Level**

12

**SSC 0460: Economics**

In this semester long course, students will learn 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. Economics is available for sophomores in the Cambridge program.

**Credits** 0.5 (Per Semester)

**Grade Level**

12

**SSCC 161/162: Cambridge IGCSE World History 0470 A/B**

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 students seeking Arizona's Grand Canyon High School Diploma.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

10

**Notes**

Check out the Cambridge website for more information:

[cambridge.org](http://cambridge.org)

**SSCC 261/262: Cambridge IGCSE American History 0409 A/B**

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 students seeking Arizona's Grand Canyon High School Diploma.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

9

**Notes**

Check out the Cambridge website for more information:

[cambridge.org](http://cambridge.org)

**SSCD 371/D372: Cambridge AS US History 9489 A/B**

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 overtime, 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.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

11, 12

**Notes**

Check out the Cambridge website for more information:

[cambridge.org](http://cambridge.org)

May be dual credit with MCC HIS 131/132.



**SSCD 450: DC Civics****Credits** 0.5 (Per Semester)**Grade Level**

11, 12

**Prerequisites**

This course surveys the United States Constitution, The Federalist Papers, political parties and elections, interest groups, Congress, the President and bureaucracy, courts, civil rights and liberties, and an overview of government policies. Appropriate college placement score applies.

**CTE****Automotive Services Pathway****ASE 0101: Automotive Technologies I**

Introduction to the basic industry skills necessary for certified professionals in the automotive industry. The course includes developing career plans and preparing for employment. It also includes an introduction to: shop safety, common hand tools, basic shop equipment, measuring systems and tools, academic skills needed in the field, and automotive industry terminology.

**Credits** 1.0 (Block Class (2 periods in a row))**Grade Level**

10, 11, 12

**ASE 0202: Auto Technologies II**

This course prepares the individual to apply technical knowledge and skills in safety, adjustment, maintenance, and parts replacement to repair automobiles and light trucks. Students are introduced to: a) brake systems; b) electric/electronic systems; c) steering and suspension systems; and d) engine performance diagnosis and repair.

**Credits** 1.0 (Block Class (2 periods in a row))**Grade Level**

10, 11, 12

**Prerequisites**

Automotive I and Instructor Approval.

**ASE 0300: Auto Technologies III**

This course prepares the individual to apply higher levels of technical knowledge and skills to maintain, diagnose and repair automobiles and light trucks. Students will gain in-depth knowledge needed to troubleshoot and identify malfunctioning components and sensors; and correct these problems in four areas: brake systems, electrical/electronic systems, steering and suspension systems and engine performance analysis. Students will be guided by the ASE curriculum and student certification tests will be offered to prepare for employment or further training in the field.

**Credits** 1.0 (Block Class (2 periods in a row))**Grade Level**

10, 11, 12

**Prerequisites**

Automotive Technologies II and Instructor Approval.

**ASE 0320/0321: Automotive Tech Lab Assistant A/B****Credits** 1.0 (0.5 Credits Per Semester)**Grade Level**

11, 12

**ASE0323: DCE Automotive Technologies**

This course utilizes Diversified Cooperative Education (DCE) methodology, one teacher responsible for students within multiple program areas, to combine school-based and supervised work-based learning experiences related to the standards identified for the Automotive Technologies Program.

**Credits** 0.5**Grade Level**

10, 11, 12

**Prerequisites**

Complete Automotive Technologies coherent sequence or recommendation from HS principal designee

**Business Management Pathway****BUE0322: DCE Business Management**

This course utilizes Diversified Cooperative Education (DCE) methodology, one teacher responsible for students within multiple program areas, to combine school-based and supervised work-based learning experiences related to the standards identified for the Business Management Program.

**Credits** 0.5**Grade Level**

10, 11, 12

**Prerequisites**

Complete Business Management coherent sequence or recommendation from HS principal designee



**CISJ 110: Computer Info Systems—Dual Credit CIS 110**

An introduction to hardware, software, data structures, information system analysis, and other topics regarding computer information systems. Content covers historical and contemporary topics with emphasis on database and spreadsheet packages for solving problems from a business perspective. Earn 3 college credits at MCC for CIS110. This is a required general education class for all in-state universities.

**Credits** 0.5

**Grade Level**

11, 12

**MKT 0230/0231: Business Management 1 A/B**

Explore the exciting challenges of management! Students will be introduced to the skills necessary to be an effective manager and leader. Students will explore fundamental business concepts and career opportunities. Virtual business on the computer, field trips, guest speakers, projects, and internet research are all part of this exciting class!

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

9, 10, 11, 12

**MKT 0232/0233: Business Management 2 A/B**

Learn about customer buying habits and the sales world. Determine how to purchase, display, promote and finance products. Students will also complete an accounting cycle, analyze financial statements, and make educated business decisions by learning basic accounting principles and practices. Students will also utilize computer skills in the MS Office Suite, Internet, graphics, and business-related software for advanced document creation. Students are expected to make presentations, use email appropriately, and participate in class.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

9, 10, 11, 12

**Prerequisites**

Business Management 1 or enrolled concurrently

**MKT 0341/0342: Advanced Store Mgmt. & Marketing A/B**

This course is recommended for students who are preparing to enter the working world or going on to college and are interested in business leadership. Students will participate in working in the student-run school store with an emphasis on management (both leadership and financial). The students run the Student Store! Management, operations, marketing, and finance experience! Product planning/pricing, inventory control, stocking shelves, running the register, counting money-accounting/bank deposit, flyers/ads/website promotion, scheduling, training others, implementing procedures and more! This course is repeatable for credit with instructor approval.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

11, 12

**Prerequisites**

Business Management 1, Business Management 2

## Economics Pathway

**SSCC 0480: Cambridge AS Economics 9708**

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 recommended for the AICE diploma through Cambridge.

**Credits** 0.5 (Per Semester)

**Grade Level**

12

**Notes**

Check out the Cambridge website for more information: [cambridge.org](http://cambridge.org)

## Fine And Performing Arts Pathway

### **INF 0119/0120: Graphic Arts 1 A/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.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

9, 10, 11, 12

**Fee**

\$15.00/semester.

### **INF 0121/0122: Graphic Arts 2 A/B**

Students will explore and understand the various digital media and technologies including technology's historical evolution, current applications, and future possibilities. They will develop design concepts and projects for commercial and business environments as well as explore career possibilities.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

10, 11, 12

**Prerequisites**

Graphic Arts 1

**Fee**

\$10/semester

### **INF 0123/0124: Advanced Graphic Arts A/B**

Second year students will build on and refine their understanding of various digital media and technologies including technology's historical evolution, current applications, and future possibilities. Students will develop design concepts and projects, which directly apply to commercial and business environments, such as, corporate identity packages, and sales and marketing materials. Design students will act as a business partners with the school clubs and organizations.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

10, 11, 12

**Prerequisites**

0121/0122

**Fee**

\$10/semester.

### **MUS 0110A/B: Band Percussion A/B**

This is the percussive, performing ensemble of Lee Williams High School. These instruments include drums, hand percussion and mallet-based instruments. The goal of this ensemble is to provide its students with the opportunity to develop and refine musicality and technical skills that will enable them to perform a wide variety of repertoire at a Grade Difficulty of 3 or higher. Students will focus on master in all areas including tone, intonation, balance, interpretation and theory. Performances are a mandatory part of the grade. If interested in joining without previously been in band, please meet with the director before adding this course to your schedule.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

9, 10, 11, 12

### **MUS 0120/0122: Concert Band A/B**

This is the wind-based, performing ensemble of Lee Williams High School. These instruments include Brass and Woodwind instruments only (flute, clarinet, saxophone, trumpet, trombone, tube and color winds). The goal of this ensemble is to provide its students with the opportunity to develop and refine musicality and technical skills that will enable them to perform a wide variety of repertoire at a Grade Difficulty of 3 or higher. Students will focus on master in all areas including tone, intonation, balance, interpretation and theory. Performances are a mandatory part of the grade. If interested in joining without previously been in band, please meet with the director before adding this course to your schedule.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

9, 10, 11, 12

### **MUS 0150/0152: Choir Concert A/B**

This is a year-long course that explores choral music from a wide variety of cultures and time periods through study and performance. This class is open to all students, regardless of previous singing experience. The core curriculum emphasizes the basics of vocal technique, sight reading, music theory, and music history. Students in Concert Choir are expected to participate in one evening concert each quarter as a major part of their grade.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

9, 10, 11, 12

### **MUS 0260: Music Appreciation**

In this semester long course, students will engage in discussion and application of the basic fundamentals of culture and music in Western Civilization. This class will connect History, Science, Language and Literary Arts to create a more cohesive understanding of how, Jointly with music, culture progresses through time. Eras of study include: Medieval, Renaissance, Baroque, Classical, Romantic, Modern and Post-Modern.

**Credits** 0.5 (Per Semester)

**Grade Level**

9, 10, 11, 12

**Notes**

Non-Performance Music Class

### **MUS 0360: The Study of Rock Music**

In this semester long course, students will engage in discussion and application of the basic fundamental history of rock and roll; and the genres that both influence its inception and evolve from it. Scope of study focuses from the 1800s-1990s in areas of music, history and culture.

**Credits** 0.5 (Per Semester)

**Grade Level**

9, 10, 11, 12

### **MUSC 360/361: IGCSE Music**

Cambridge IGCSE Music allows learners to develop their musical skills through listening, performing and composing. Learners study music from a diverse range of world cultures and from historical periods to the present day and have the flexibility to perform and compose in their chosen style.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

9, 10, 11, 12

**Notes**

Check out the Cambridge website for more information: [cambridge.org](http://cambridge.org)

## **Fire Service Pathway**

### **FSC 0203/0204: Fire Service A/B**

This course introduces students to careers in Fire Service and prepares them to apply academic, employability and technical knowledge and skills related to common industry standards and practices of the Fire Service. The program utilizes current principles and practices, identified and established by national and state consortiums, to provide technical knowledge and skills that are associated with careers in the fire service. An integrated approach to teaching and learning utilizes classroom instruction of knowledge and practical application of skills. Students will also be introduced to the theme of "Being an 11" and how it relates to LWHS and service to the community.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

9, 10, 11, 12

### **FSC 0301/0302: Fire Service Advanced Applications A/B**

This course is a continuation of FSC0201/0202 and prepares students to apply advanced academic and technical knowledge and skills in a variety of settings within Fire Service. Students completing the program will be prepared to participate in teams, solve problems, think critically and implement effective solutions and they gain knowledge and skills associated with the fire service.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

10, 11, 12

**Prerequisites**

FSC 0201/0202.

### **FSC 0320/0321: Fire Service Lab Assistant A/B**

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

11, 12

### **FSC0322: DCE Fire Service**

This course utilizes Diversified Cooperative Education (DCE) methodology, one teacher responsible for students within multiple program areas, to combine school-based and supervised work-based learning experiences related to the standards identified for the Fire Service Program.

**Credits** 0.5

**Grade Level**

10, 11, 12

**Prerequisites**

Complete Fire Service coherent sequence or recommendation from HS principal designee

## Graphic Design Pathway

### **CIS0322: DCE Graphic Design**

This course utilizes Diversified Cooperative Education (DCE) methodology, one teacher responsible for students within multiple program areas, to combine school-based and supervised work-based learning experiences related to the standards identified for the Graphic Design Program.

**Credits** 0.5

**Grade Level**

10, 11, 12

**Prerequisites**

Complete Graphic Design coherent sequence or recommendation from HS principal designee

## Law And Public Safety Pathway

### **AJS 0300/0301: Law and Public Safety/Security I A/B**

This first-year course is an overview of the history and organization of local, state and federal law enforcement, including the practice and application of law and terminology of law enforcement. This course explains the elements of crime and criminal law, the goals of corrections, constitutional law, and public security. This course also includes segments of courtroom procedures, including a mock trial and discussion in the career fields of crime scene investigation, forensics and emergency communications. Leadership principles will be learned through a close association with the SkillsUSA Career and Technical Skills Organization (CTSO).

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

9, 10, 11, 12

### **AJS 1300/1301: Law and Public Safety/Security II A/B**

This course reviews the application of law and functions of law enforcement for preparation of a career in law enforcement. This sec-ond-year course covers practical applications of policing such as ethical responsibilities, use of force, and crime scene security. Students will conduct hands-on applications involving necessary equipment for handcuffing, crime scene preservation, vehicle searches and fingerprinting. Students will become completers in the program by passing a state technical assessment and receive a certificate from Arizona Department of Education.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

9, 10, 11, 12

### **AJS 2300/2301: Law and Public Safety/Security IIIA/B**

This third-year course is an advanced part of the Law and Public Safety Program that further prepares students for entry-level employment, provides further training, and/or postsecondary education opportunities through Mohave Community College for occupations in the field of Criminal Justice, Emergency Telecommunications, Investigation and Security Service, and careers in the Detention Field. The students will have an opportunity to become nationally certified through The Association of Public-Safety Communications Officials (APCO) as a Public Safety Telecommunicator. Further certifications through the Federal Emergency Management Agency may be obtained.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

11, 12

### **AJS2302: DCE Law and Public Safety**

This course utilizes Diversified Cooperative Education (DCE) methodology, one teacher responsible for students within multiple program areas, to combine school-based and supervised work-based learning experiences related to the standards identified for the Law & Public Safety Program.

**Credits** 0.5

**Grade Level**

10, 11, 12

**Prerequisites**

Complete Law & Public Safety coherent sequence or recommendation from HS principal designee

## Nursing Services Pathway

### **MED 0241/0242: Medical Foundations A/B**

Students will learn basic medical root words, prefixes, and suffixes, which will be highly important in their chosen medical professions. They will also study cytology, integumentary system, skeletal system, muscular system, digestive system, and special senses. During second semester, they will study the nervous system, cardiovascular system, respiratory system, lymphatic system, urinary system, endocrine system, and reproductive system.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

9, 10, 11, 12

**Prerequisites**

SCI 0131 or SCIC161 (May be concurrent). MED 0241 must be taken prior to 0242.

**MED 0340: Occupations**

This semester long course is designed to teach students components of medical occupations. This includes exploration of career planning, job search skills, productivity and accountability, communication skills, leadership and collaboration, technological literacy, problem solving, legal and ethical issues, and wellness philosophies. Students will also do a variety of virtual job shadowing through a computer program that will be used in class.

**Credits** 0.5 (Per Semester)

**Grade Level**

9, 10, 11, 12

**MEDD100: DC Medical Law and Ethics**

DC Medical Law and Ethics (MEA100) is a Dual Credit Course with MCC for a semester (0.5) high school credit and 3 credits for MCC. This DC course will be used in tandem with HES 113 as part of the CTE Medical Foundations course which is used on the Nursing Pathway.

**Credits** 0.5

**Grade Level**

10, 11, 12

**MEDD113: DC Medical Terminology**

DC Medical Terminology (HES113) is a Dual Credit Course with MCC for a semester (0.5) high school credit and 3 credits for MCC. This course will be used in tandem with HES 113 as part of the CTE Medical Foundations course which is used on the Nursing Pathway.

**Credits** 0.5

**Grade Level**

10, 11, 12

**Sports Medicine And Rehabilitation Services Pathway****GUI 0320: Lab Assistant A/B**

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 year will be accepted.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

11, 12

**Prerequisites**

MED 0261,0262/MED 0362,0362

**MED 0261/0262: Sports Medicine 1 A/B**

This course is designed for students interested in learning how to prevent, assess, and manage athletic injuries. Students interested in pursuing a career such as athletic trainer, physical therapist, nurse, EMT, fireman, police officer, coach, personal trainer or any other sport or medical related field would benefit from the knowledge and skills learned. Emphasis is placed on human anatomy and physiology and the fundamentals of health related careers. Students will be instructed on theory with practical applications as allowed.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

9, 10, 11, 12

**Prerequisites**

[SCI 0131/0132: Biology A/B](#)

SCI0131/0132 (May be concurrent)

**MED 0350: Nutrition Sports**

The objective of this semester long class is to inform students of all the nutritional values that are important for our everyday life eating habits and all the nutritional myths that are presented to us either through advertising or through inaccurate labeling. Students will also have lessons on character education and how this helps promote our nutritional choices.

**Credits** 0.5 (Per Semester)

**Grade Level**

9, 10, 11, 12

**MED 0361/0362: Sports Medicine 2 A/B**

A continuation of MED0262. This course will focus more on practical applications of the knowledge gained in MED0262 with supplemental lectures. This course requires participation after school and/or on weekends as necessary.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

10, 11, 12

**Prerequisites**

[MED 0261/0262: Sports Medicine 1 A/B](#)

**MED0365: DCE Sports Medicine and Rehabilitation**

This course utilizes Diversified Cooperative Education (DCE) methodology, one teacher responsible for students within multiple program areas, to combine school-based and supervised work-based learning experiences related to the standards identified for the Sports Medicine Program.

**Credits** 0.5

**Grade Level**

10, 11, 12

**Prerequisites**

Complete Sports Medicine and Rehabilitation coherent sequence or recommendation from HS principal designee

**MED0461/0462: Sports Medicine III A/B**

The goal of this course is to prepare the student for a long-lasting and fruitful career as a Certified Personal Trainer (CPT). With this course, the students are given all of the tools and resources needed to become a successful fitness professional and positively impact the health and wellness of clients. The course will cover the following topics: Professional Development and Responsibility, Client Relations and Behavioral Coaching, Basic and Applied Sciences and Nutritional Concepts, Assessment, Exercise Technique and Training Instruction, and Program Design. Students will earn NASM Personal Trainer Certification.

The length of the course is one academic year and the student will earn 1 credit. The course aligns with the AZ CTE Sports Medicine and Rehabilitation program of study.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

11, 12

**Prerequisites**

[MED 0361/0362: Sports Medicine 2 A/B](#)

**Stagecraft Pathway****DRA 0101/0102: Stagecraft I A/B**

Students will receive an introduction to drama as they focus on theatre appreciation through vocabulary, theatre history, and an understanding of backstage elements such as scenic construction, light board operation, sound board operation, costuming and makeup along with safety procedures for each and OSHA certification for construction sites. Students will also be introduced to basic acting styles to help create a well-rounded understanding of theatre arts on stage and backstage.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

9, 10, 11, 12

**Fee**

\$10/semester.

**DRA 0201/0202: Stagecraft II A/B**

This second course is designed to help students further evolve their understanding of acting, and technical production with the inclusion of design and short productions. Stagecraft units include increasingly hands on projects related to various aspects of theatre, and increased time and projects in the scenic shop.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

10, 11, 12

**Prerequisites**

DRA 0101/0102.

**Fee**

\$10/semester.

**DRA 0301/0302: Stagecraft III A/B**

This class is designed for hard working and motivated students. In this class students have the flexibility to dedicate their time and studies to particular areas of interest within theatre. Students will be provided with the guidance and resources to ultimately craft their skills in a targeted area.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

11, 12

**Prerequisites**

DRA 0201/0202.

**Fee**

\$15/semester.

**DRA 0320/0321: Stagecraft Lab Assistant A/B**

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

11, 12

**DRA0322: DCE Stagecraft**

This course utilizes Diversified Cooperative Education (DCE) methodology, one teacher responsible for students within multiple program areas, to combine school-based and supervised work-based learning experiences related to the standards identified for the Stagecraft Program.

**Credits** 0.5

**Grade Level**

10, 11, 12

**Prerequisites**

Complete Stagecraft coherent sequence or recommendation from HS principal designee

**Electives**

## Foreign Language

**LAN 0101/0102: Spanish I A/B**

This is a beginning study of Spanish with an emphasis on vocabulary and basic grammar. (LAN0101 must be completed before LAN 102).

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

9, 10, 11, 12

**LAN 0201/0202: Spanish II A/B**

This is a continuation of Spanish 1 with emphasis on vocabulary, more complex grammar, writing and conversation. (LAN0201 must be completed before LAN0202).

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

10, 11, 12

**Prerequisites**

LAN 102

**LAN 0401/0402: American Sign Language I A/B**

ASL 1 is a visual-spatial language rather than a spoken one and is taught in a full immersion classroom. It is strictly taught in ASL and voice off environment. The communication emphasis is on expressive skills (signing) and receptive skills (watching and comprehending) in order to understand and communicate with others.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

9, 10, 11, 12

**LAN 0403/0404: American Sign Language II A/B**

ASL 2 is a visual-spatial language rather than a spoken one and is taught in a full immersion classroom. It is strictly taught in ASL and voice off environment. The communication emphasis is on expressive skills (signing) and receptive skills (watching and comprehending) in order to understand and communicate with others. ASL 2 students learn to communicate, comprehend, and present on very familiar topics using isolated words and high frequency phrases in the context of Culture, Connections, Community, Comparisons and Communication by expanding on the vocabulary.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

10, 11, 12

**LAN 0405/0406: American Sign Language III A/B**

ASL 3 is a visual-spatial language rather than a spoken one and is taught in a full immersion classroom. It is strictly a voice off environment. The emphasis is on expressive skills (signing) and receptive skills (comprehending). ASL 3 focuses more on practical and high level application of the language. This course builds on level 1 and 2 and makes a full circle of what has been taught and applying it.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

10, 11, 12

**LANC 101/102: IGCSE Spanish 1 A/B**

Cambridge IGCSE Spanish 1 develops a set of transferable skills for understanding and communicating in everyday situations in Spanish. Learners begin to develop cultural awareness of countries and communities where Spanish is spoken. They acquire the essential linguistic skills required for progression to further studies or employment. The syllabus gives students opportunities to develop and apply a wide range of foreign language skills. Candidates will be expected to read and understand a variety of written and spoken texts on familiar topics. Candidates will be required to demonstrate an understanding of the main ideas, opinions and attitudes. They will also have opportunities to write in Spanish on familiar, everyday topics, and to speak the language by taking part in everyday conversations. Students must be highly self motivated to learn the language and culture and willing to sit for the exam.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

9, 10, 11, 12

**Notes**

Check out the Cambridge website for more information:  
[cambridge.org](http://cambridge.org)



### **LANC 201/202: IGCSE Spanish 2 A/B**

Cambridge IGCSE Spanish 2 is a continuation of IGCSE Spanish 1. Students will develop a set of transferable skills for understanding and communicating in everyday situations in Spanish. Learners begin to develop cultural awareness of countries and communities where Spanish is spoken. They acquire the essential linguistic skills required for progression to further studies or employment. The syllabus gives students opportunities to develop and apply a wide range of foreign language skills. Candidates will be expected to read and understand a variety of written and spoken texts on familiar topics. Candidates will be required to demonstrate an understanding of the main ideas, opinions and attitudes. They will also have opportunities to write in Spanish on familiar, everyday topics, and to speak the language by taking part in everyday conversations. Prerequisites include: IGCSE Spanish 1A and IB or Spanish 1. Students must be highly self motivated to learn the language and culture and willing to sit for the exam.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

10, 12

**Notes**

Check out the Cambridge website for more information: [cambridge.org](http://cambridge.org)

### **LANC 305/306, 405/406: AS/A Spanish 3 and 4**

Cambridge AS/A Spanish offers students an opportunity to gain lifelong skills in learning Spanish, including the ability to communicate confidently and clearly; a sound understanding of the nature of language and language study, and of the skills and abilities required for further study, work and leisure; insight into the culture and contemporary society of countries where the Spanish language is spoken; better integration into the communities where Spanish is spoken, positive attitudes towards language learning, towards the speakers of other languages, and towards other cultures and societies. Skills which can be used in other areas of learning, such as analysis and memory skills. Prerequisites include: Students must be highly self-motivated to learn the language and culture and willing to sit for the exam. Completion of IGCSE Spanish 1 and 2 or instructor approval. This course is recommended for the AICE diploma through Cambridge.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

10, 11, 12

**Notes**

Check out the Cambridge website for more information: [cambridge.org](http://cambridge.org)

## Guidance

### **GUI 0200: Teacher Aide**

Student assists teacher in carrying out clerical duties. Teacher's Aide will not count for eligibility in AIA sports.

**Credits** 0.5 (Per Semester)

**Grade Level**

11, 12

**Prerequisites**

Instructor approval, 2.5 cumulative GPA. Course can only be taken twice for credit.

### **GUI 0330: Office Assistant**

Work in an office on campus: Attendance, Discipline, Guidance, Health, Library, Reception, Student Accounts, Student Assistance Center, or Special Education.

**Credits** 0.5 (Per Semester)

**Grade Level**

11, 12

**Prerequisites**

Office supervisor recommendation, 3.0 cumulative GPA. Repeatable for credit.

### **REL 0010: Release Period 1**

**Grade Level**

12

### **REL 0080: Release Time Period 8**

**Grade Level**

12

**Notes**

Release time forms are available from your counselor and are required!

### **REL 0120: Release Period 1-2**

**Grade Level**

12

### **REL 0780: Release Time Period 7-8**

**Grade Level**

12



## Physical Education

### **PED 0111/0112: Pe/Health A/B**

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. 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.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

9, 10, 11, 12

### **PED 0140: Cross Training**

Cross training is a semester long elective course designed for driven, hardworking individuals. This class will consist of some weight training, speed development, agility, and quickness training, games, competitions, and fun. Different subject matter such as nutrition, body composition, and heart rate will also be taught.

**Credits** 0.5 (Per Semester)

**Grade Level**

9, 10, 11, 12

### **PED 0210A/B: Advanced PE A/B**

This class will focus on lifetime fitness. It will allow students to maintain physical activity in an fun and healthy way. Students will learn activities that are low impact and can be enjoyed outside of the school day.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

10, 11, 12

**Prerequisites**

PED0110.

### **PED 0220/0232: Weight Training A/B**

This course introduces students to all types of resistance training. The class consists of a four-day weightlifting program with emphasis on technique and safety. One day per week is designated for fitness-related activity. Weight training is not offered to freshmen. It may be repeated for credit.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

10, 11, 12

**Prerequisites**

PED0110.

### **PED 233/234: Lifetime Sports A/B**

Lifetime Sports in an elective class. This class will focus on sports that can be played for life. Students will learn the fundamentals of these sports and have the opportunity to play the sports in class. The class will also focus on maintaining a healthy lifestyle and lifetime fitness.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

10, 11, 12

### **PEDC 111/112: IGCSE PE A/B**

A Cambridge PE course for freshmen and sophomore students with an interest in athletics, sports medicine, athletic training and coaching, physical therapy or even medicine. Students will develop their knowledge and understanding physical performance in a modern world; apply this knowledge and understanding to improve their performance; perform in a range of physical activities, developing skills and techniques, and selecting and using tactics, strategies and/or compositional ideas; understand and appreciate safe practice in physical activity and sport; understand and appreciate the benefit of physical activity and sport for health, fitness and well-being and much more.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

9, 10, 11, 12

**Notes**

Check out the Cambridge website for more information:

[cambridge.org](http://cambridge.org)

### **PED C211/212: AS Sports & PE**

For sophomore, juniors, and seniors with an interest in athletics, sports medicine, athletic training and coaching, physical therapy, or even medicine. This new Cambridge AS level Sports and Physical Education course is just what you need to get a strong foundation. This is an active course with the credibility of Cambridge curriculum which includes: applied anatomy, exercise physiology and biomechanics; an understanding of the structure, functions and interrelationships between the skeletal, muscular, circulatory and respiratory systems that is essential to analyze how the human body moves in sporting situations and to explain how it adapts to exercise; biomechanics, sports performances, technology, and sociocultural influences.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

9, 10, 11, 12

**Notes**

Check out the Cambridge website for more information:

[cambridge.org](http://cambridge.org)

## Other Electives

### **INFC 300/301: CTE/AS Digital Communication I A/B**

Cambridge International AS & A Level Digital Media & Design curriculum is used in tandem with the CTE Digital Communication program standards to allow learners to explore a range of processes and techniques in digital media through flexible course design covering digital photography, moving image, games design and mobile and multimedia applications and using a variety of print and online formats, including newspapers, magazines, journals, weblogs, and other traditional and new media platforms. This course: develops an awareness of the world of digital media and design, develops learners' creative processes and their ability to critically evaluate their work, encourages learners to combine innovative approaches and techniques to solve problems creatively, expands learners' knowledge of digital media by exploring different designers, processes and concepts, prepares learners for further study and to work in a collaborative industry. Students develop leadership, social, civic, and career skills through participation in either SkillsUSA or FBLA (Future Business Leaders of America) and may be prepared for entry-level once they become a Program Completer. This course is the first of two in the CTE program. Completing both courses is required to become a CTE program completer which earns the student a graduation cord. This course is also recommended for students seeking the AICE diploma through Cambridge.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

10, 11, 12

**Notes**

Check out the Cambridge website for more information: [cambridge.org](http://cambridge.org)

### **MIS 0130: Drivers Education**

This semester long course is designed to help students become safe, knowledgeable drivers. In the course students will learn about the basic traffic laws and rules of the road that apply to common everyday driving situations. They will also be aware of all the defensive driving techniques and strategies, by the completion of this course, students will be ready to take the written portion of the exam for their learners permit exam.

**Credits** 0.5 (Per Semester)

**Grade Level**

9, 10, 11, 12

### **SSC 340/341: Cambridge AS Psychology 9990 A/B**

Cambridge International AS & A Level Psychology is designed to give students an understanding of psychological concepts, theories and research methodology. The syllabus: is suitable for students who have no prior learning in psychology engages with four core areas of psychology: biological, cognitive, social and learning allows students to deepen their knowledge through a choice of two options at Cambridge International A Level from clinical psychology, consumer psychology, health psychology or organizational psychology encourages students to consider the relationships between psychological findings and everyday life This course is recommended for the AICE diploma through Cambridge.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

11, 12

**Notes**

Check out the Cambridge website for more information: [cambridge.org](http://cambridge.org)

### **SSCC 200/201: Cambridge AS Travel & Tourism 9395 A/B**

Cambridge International AS and A Level Travel and Tourism is ideal for those seeking to specialize in this subject. The course encourages learners to appreciate the changing nature of travel and tourism and understand the importance of sustainability in the development and management of the industry. This syllabus: enables learners to understand the concepts and theories in travel and tourism and recognize their impact on people, environments and economies develops learners' practical and research skills through planning and organizing an actual tourism event, which will contribute to their further study and working in the industry. This course is recommended for the AICE diploma through Cambridge.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

11, 12

**Notes**

Check out the Cambridge website for more information: [cambridge.org](http://cambridge.org)

**SSCC 301/302: Cambridge AS Global Perspectives 9239 A/B**

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.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

11, 12

**Prerequisites**

It is recommended that students have attained communication and literacy skills at a level equivalent to IGCSE/GCSE Grade C in English.

**Notes**

This course is required for the AICE diploma through Cambridge.

Check out the Cambridge website for more information:

[cambridge.org](http://cambridge.org)

**SSCC 350/351: Cambridge AS Sociology 9699 A/B**

In a rapidly changing world, Cambridge International AS and A Level Sociology offers learners the opportunity not only to explore the processes that are shaping current trends, but also to develop an understanding of the complexity and diversity of human societies and their continuities with the past. The study of sociology stimulates awareness of contemporary social, cultural and political issues, and focuses on the importance of examining these issues in a rigorous, reasoned and analytical way. This course is recommended for the AICE diploma through Cambridge.

**Credits** 1.0 (0.5 Credits Per Semester)

**Grade Level**

11, 12

**Notes**

Check out the Cambridge website for more information:

[cambridge.org](http://cambridge.org)