Polytechnic High School

Course Catalog 2017-2018

ASU PREPARATORY ACADEMY
MISSION

The mission of ASU Preparatory Academy is to provide a personalized, university-embedded academic program that empowers students to complete college, excel in a global society, and contribute to their communities.
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ACADEMIC PROGRAM

A core component of ASU Preparatory Academy's philosophy is that all students must have the opportunity and support to master a rigorous curriculum. Every student is enrolled in the internationally benchmarked Cambridge Curriculum,* which is used in over 160 countries. This rigorous course of study prepares students for academic success in university classes. Cambridge exams at the IGCSE and more rigorous A/AS levels are provided at no cost to students so that every student is given the opportunity for success.

*Cambridge Curriculum
Cambridge IGCSE (International General Certificate Secondary Education) is the world’s most popular international qualification system for 14 to 16 year olds. It is recognized by leading universities and employers worldwide, and is an international passport to progression and success. Developed over 25 years ago, it is tried, tested and trusted by schools worldwide. Cambridge AS (Advanced Studies) Level and A (Advanced) Level courses offer increasingly rigorous academic study, respectively, in preparation for college. Students have the opportunity to earn college credit based on their performance on A/AS Level exams, depending on Cambridge qualifying scores and the university they attend.

ASU PREP CREDIT REQUIREMENTS

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>Math</td>
<td>4</td>
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<tr>
<td>English</td>
<td>4</td>
</tr>
<tr>
<td>Science</td>
<td>3-4</td>
</tr>
<tr>
<td>Social Studies</td>
<td>3</td>
</tr>
<tr>
<td>Health Wellness and Fitness</td>
<td>1</td>
</tr>
<tr>
<td>World Languages</td>
<td>3</td>
</tr>
<tr>
<td>Research &amp; Writing</td>
<td>2</td>
</tr>
<tr>
<td>Capstone</td>
<td>4</td>
</tr>
<tr>
<td>Fine Arts/Electives</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>27</strong>*</td>
</tr>
</tbody>
</table>

*Arizona requires a minimum of 22 credit hours for graduation. ASU Prep requires a minimum of 27 credit hours for graduation.
Being an ASU Prep student means being part of an innovative and individualized educational experience. Each of our students will be given the opportunity to choose their academic focus based on their individual interests and post secondary goals. Similarly to the university setting, our students will select a major or as we call it, a pathway. These pathways will help guide and ignite their academic passion.
## Example Four Year Plans for LAH and ET Pathways

### Liberal Arts and Humanities

<table>
<thead>
<tr>
<th>Grade</th>
<th>Mathematics</th>
<th>Science</th>
<th>Electives</th>
<th>Capstone</th>
<th>World Languages</th>
<th>History</th>
<th>English</th>
</tr>
</thead>
<tbody>
<tr>
<td>9th</td>
<td>IGCSE 1</td>
<td>Choices (pick 1) IGCSE Physics</td>
<td>HWF</td>
<td>Liberal Arts and Humanities</td>
<td>World Studies</td>
<td>IGCSE FLE + Research and Writing</td>
<td></td>
</tr>
<tr>
<td></td>
<td>IGCSE 2</td>
<td>IGCSE Bio</td>
<td>Or AS level</td>
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</tr>
<tr>
<td>10th</td>
<td>IGCSE Additional</td>
<td>IGCSE Physics</td>
<td>Choices (pick 1) IGCSE Chemistry</td>
<td>Liberal Arts and Humanities</td>
<td>Year 2 of previous WL</td>
<td>American History</td>
<td>IGCSE Lit + Research and Writing</td>
</tr>
<tr>
<td></td>
<td>AS Mathematics (Honors only)</td>
<td>IGCSE Chemistry</td>
<td>IGCSE Art</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>11th</td>
<td>A Mathematics (Honors only)</td>
<td>University level mathematics via Collegiate Scholars (Honors only)</td>
<td>Choices (pick 3) a. Academic Apprenticeship</td>
<td>Liberal Arts and Humanities</td>
<td>Year 3 of WL or choice of new:</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>b. Independent Study</td>
<td></td>
<td>· Spanish</td>
<td></td>
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</tr>
<tr>
<td>12th</td>
<td>Choices (pick 1) IGCSE Physics</td>
<td>Choices (pick 3) c. Art and Design</td>
<td>a. Academic Apprenticeship</td>
<td>Liberal Arts and Humanities</td>
<td>Economics/Government</td>
<td></td>
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<tr>
<td></td>
<td>IGCSE Chemistry</td>
<td>d. Music Ensemble</td>
<td>b. Independent Study</td>
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<tr>
<td></td>
<td>IGCSE Bio Or AS/A Level</td>
<td>Yearbook/Journalism</td>
<td>e. Art and Design</td>
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<tr>
<td></td>
<td></td>
<td>e. Business/Marketing</td>
<td>d. Music Ensemble</td>
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### Engineering and Technology Pathway

<table>
<thead>
<tr>
<th>Grade</th>
<th>Mathematics</th>
<th>Science</th>
<th>Electives</th>
<th>Capstone</th>
<th>World Languages</th>
<th>History</th>
<th>English</th>
</tr>
</thead>
<tbody>
<tr>
<td>9th</td>
<td>IGCSE 2</td>
<td>IGCSE Physics</td>
<td>HWF</td>
<td>Engineering</td>
<td>World Studies</td>
<td>IGCSE FLE + Research and Writing</td>
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<tr>
<td></td>
<td>IGCSE Additional</td>
<td>Or AS level</td>
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<tr>
<td>10th</td>
<td>AS Mathematics (Honors only)</td>
<td>IGCSE Chemistry</td>
<td>Engineering</td>
<td>Engineering</td>
<td>Year 2 of previous WL</td>
<td>American History</td>
<td>IGCSE Lit + Research and Writing</td>
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<tr>
<td></td>
<td>A Mathematics (Honors only)</td>
<td>IGCSE Art</td>
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</tr>
<tr>
<td>11th</td>
<td>University level mathematics via Collegiate Scholars (Honors only)</td>
<td>Choices (pick 1) a. Academic Apprenticeship</td>
<td>Engineering</td>
<td>Year 3 of WL or choice of new:</td>
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<td></td>
<td></td>
<td>b. Independent Study</td>
<td></td>
<td>· Spanish</td>
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<tr>
<td>12th</td>
<td>Choices (pick 1) A Chemistry</td>
<td>Choices (pick 3) c. Engineering</td>
<td>a. Academic Apprenticeship</td>
<td>Engineering</td>
<td>Senior English/ENG 101</td>
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<tr>
<td></td>
<td>A Physics</td>
<td>Engineering</td>
<td>b. Independent Study</td>
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<tr>
<td></td>
<td>IGCSE Bio</td>
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<td>e. Art and Design</td>
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<td></td>
<td>ASU- Sustainability</td>
<td>d. Computer systems</td>
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<td></td>
<td></td>
<td>e. ASU-Sustainability</td>
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</table>
# Example Four Year Plans LS and SBS Pathways

## Life Sciences Pathway

<table>
<thead>
<tr>
<th>Grade</th>
<th>Mathematics</th>
<th>Science</th>
<th>Electives</th>
<th>Capstone</th>
<th>World Languages</th>
<th>History</th>
<th>English</th>
</tr>
</thead>
<tbody>
<tr>
<td>9th</td>
<td>IGCSE 1</td>
<td>IGCSE Biology</td>
<td>HWF</td>
<td>Life Sciences</td>
<td>Choice: - Spanish - French - Mandarin</td>
<td>World Studies</td>
<td>IGCSE FLE + Research and Writing</td>
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<tr>
<td></td>
<td>IGCSE 2</td>
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<td></td>
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<td></td>
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</tr>
<tr>
<td>10th</td>
<td>IGCSE Additional AS Mathematics (Honors only)</td>
<td>IGCSE Chemistry</td>
<td>IGCSE Art</td>
<td>Life Science</td>
<td>Year 2 of previous WL</td>
<td>American History</td>
<td>IGCSE Lit + Research and Writing</td>
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</tr>
<tr>
<td>11th</td>
<td>A Mathematics (Honors only)</td>
<td>Choice AS Chemistry</td>
<td>Choices (pick 3)</td>
<td>Life Science</td>
<td>Year 3 of WL or choice of new: - Spanish - French - Mandarin</td>
<td>Choices (pick 1)</td>
<td>Junior English AS Literature</td>
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<tr>
<td></td>
<td>University level mathematics via Collegiate Scholars (Honors only)</td>
<td>AS Biology</td>
<td>a. Academic Apprenticeship b. Independent Study c. Sports Physiology d. Additional science classes</td>
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<tr>
<td>12th</td>
<td>Choice</td>
<td>A Chemistry ASU Bio 181-182 ASU Sustainability</td>
<td>Choices (pick 3)</td>
<td>Life Science</td>
<td>Economics / Government</td>
<td>Choices (pick 1)</td>
<td>Senior English / ENG 101 A Literature</td>
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<td></td>
<td></td>
<td></td>
<td>a. Academic Apprenticeship b. Independent Study c. Human Anatomy d. Computer systems e. ASU Sustainability</td>
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## Social and Behavioral Sciences

<table>
<thead>
<tr>
<th>Grade</th>
<th>Mathematics</th>
<th>Science</th>
<th>Electives</th>
<th>Capstone</th>
<th>World Languages</th>
<th>History</th>
<th>English</th>
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<tbody>
<tr>
<td>9th</td>
<td>IGCSE 1</td>
<td>IGCSE Bio</td>
<td>HWF</td>
<td>Social and Behavioral Sciences</td>
<td>Choice: - Spanish - French - Mandarin</td>
<td>World Studies</td>
<td>IGCSE FLE + Research and Writing</td>
</tr>
<tr>
<td></td>
<td>IGCSE 2</td>
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<tr>
<td>10th</td>
<td>IGCSE Additional College Algebra AS Mathematics (Honors only)</td>
<td>IGCSE Chemistry</td>
<td>Choices (pick 1)</td>
<td>Social and Behavioral Sciences</td>
<td>Year 2 of previous WL</td>
<td>American History</td>
<td>IGCSE Lit + Research and Writing</td>
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<tr>
<td></td>
<td>University level mathematics via Collegiate Scholars (Honors only)</td>
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English

IGCSE English First Language 1 Credit
English. Required. Prerequisite: none.
The purpose of this course is to enable students to communicate accurately, appropriately, and effectively in speech and writing. Students will also be able to understand and respond appropriately to what they hear, read, and experience. Students will engage in a variety of writing opportunities calling for the use of different styles and tones.

IGCSE English Literature 1 Credit
English. Required. Prerequisite: IGCSE English First Language.
The purpose of this course is to enable students to communicate accurately, appropriately, and effectively in speech and writing. Students will also be able to understand and respond imaginatively to what they hear, read, and experience in a variety of media. Students will study in detail texts from a variety of genres to include poetry, prose, and drama. The selections will explore areas of universal human concern, thus leading to a greater understanding of themselves and others.

AS Level Literature 1 Credit
English. Honors. Prerequisite: IGCSE Literature qualifying score and/or teacher recommendation.
The purpose of this course is to encourage students to develop an appreciation of literature, and an informed personal response to literature in English in a range of texts in different forms, and from different periods and cultures. Students will develop the interdependent skills of reading, analysis and communication. Students will also develop effective and appropriate communication through wider reading and an understanding of how reading may contribute to personal development.

A Level Literature 1 Credit
English. Honors. Prerequisite: AS Level Literature qualifying score and/or teacher recommendation.
This course is the continuance of AS Literature. Students will delve deeper into developing an appreciation of literature, and an informed personal response to literature in English in a range of texts in different forms, and from different periods and cultures. Students will expand their interdependent skills of reading, analysis and communication. Students will also develop
effective and strong communication through wider reading and an understanding of how reading may contribute to personal development.

**English 11**

*English. Prerequisite: Junior status.*

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.

**English 12/ ENG101 (English Composition)**

*English. Prerequisite: Senior status. $49 course fee.*

This introductory writing course will help students express ideas effectively for a variety of purposes, audiences and occasions. Students will develop the interdependent skills of reading, analysis and communication. Students will focus on writing processes, knowledge of conventions, the use of digital technology, and gaining rhetorical knowledge and critical thinking skills. During the final semester, students will have the opportunity to participate in an eight week online course via ASU Global Freshman Academy. Students who successfully complete the course with a C or better may be eligible for 3 hours of university academic credit* in addition to the high school credit. If students do wish to earn university credit for the course, which will count as credit for ASU’s First-Year Composition course, they will be asked to complete a portfolio demonstrating what they have learned and providing evidence that they have acquired the skills and knowledge taught during the course. This course is taught face-to-face with an online component.

*A $600 fee is required to receive the university academic credit after passing the online course with a C or better. This is optional and does not impact high school credit. Financial need scholarships may be available for those that qualify.*
Research & Writing

Research & Writing I
Research & Writing II

Research & Writing I  1 Credit
Research and Writing. Required Elective. Prerequisite: Concurrent enrollment in IGCSE EFL.
This course focuses on developing the student’s ability in writing to communicate clearly, accurately, and effectively. Students prepare persuasive, descriptive, and analytical essays in preparation for the Cambridge coursework. Students also develop beginning research skills. The overarching goal of this course is for students to learn ways to approach writing that they can apply in their education and lives.

Research & Writing II  1 Credit
Research and Writing. Required Elective. Prerequisite: Concurrent enrollment in IGCSE Lit.
In this course, students will focus on developing the fundamental skills for college ready writing. In addition, students will explore creative writing, real world writing, and prepare for Cambridge coursework with a concentration of proper citation and grammatical technique. Lastly, there is an introduction to public speaking and speech writing. Students learn how to deliver and write speeches on various topics and genre.
Mathematics

IGCSE Mathematics I (Algebra I)
IGCSE Mathematics II (Geometry)
IGCSE Additional (Algebra II)
College Algebra
AS Pure Math 1 + Mechanics 1 (Pre-Calculus)
A Level Pure Math 2 + Mechanics 2 (Calculus/Mechanics)

**IGCSE Mathematics I (Algebra I) 1 Credit**
*Mathematics. General or Honors. Required. Prerequisite: Placement Exam.*
The purpose of this first course in IGCSE Mathematics is to enable students to: develop their mathematical knowledge, as well as oral, written, and practical skills; read mathematics and write and talk about the subject in a variety of ways; carry out calculations and understand the significance of the results obtained; apply mathematics in everyday situations and develop an understanding of the part that mathematics plays in the world around them; check and interpret the results; develop an understanding of mathematical principles; identify and interpret relevant factors; select an appropriate mathematical method to solve the problem; develop the ability to reason logically, to classify, to generalize, and to prove; appreciate patterns and relationships in mathematics; appreciate the interdependence of different branches of mathematics; acquire a foundation appropriate to their further study of mathematics and of other disciplines.

**IGCSE Mathematics II (Geometry) 1 Credit**
*Mathematics. General or Honors. Required. Prerequisite: IGCSE Mathematics I and/or Placement Exam.*
The purpose of this second course in IGCSE Mathematics is to enable students to expand their mathematical knowledge primarily in the areas of space and shape. Student will also develop further oral, written, and practical skills; read mathematics and write and talk about the subject in a variety of ways; carry out calculations and understand the significance of the results obtained; recognize when and how a situation may be represented mathematically; identify and interpret relevant factors and, where necessary; use mathematics as a means of communication with emphasis on the use of clear expression; develop an ability to apply mathematics in other subjects, particularly science and technology; develop the ability to reason logically, to classify, to generalize, and to prove; appreciate patterns and relationships in mathematics. This course builds on the skills developed in IGCSE Mathematics I, with increased emphasis on advanced application of the course content topics.
IGCSE Additional Math (Algebra II) 1 Credit
Mathematics. General or Honors. Not Required. Prerequisite: IGCSE Mathematics II.
The purpose of this course is to enable students to: consolidate and extend their foundational mathematical skills and use these in the context of more advanced techniques; further develop their knowledge of mathematical concepts and principles and use this knowledge for problem solving; appreciate the interconnectedness of mathematical knowledge; devise mathematical arguments and present them precisely and logically; integrate information technology to enhance the mathematical experience; develop the confidence to apply their mathematical skills and knowledge in appropriate situations; develop creativity and perseverance in the approach to problem solving; derive enjoyment and satisfaction from engaging in mathematical pursuits, and gain an appreciation of the beauty, power and usefulness of mathematics. By the end of this course, students will have a suitable foundation in mathematics for advanced mathematics courses and in related subjects.

College Algebra 1 Credit
Mathematics. Not Required. Prerequisite: IGCSE Additional Math and/or teacher placement.
$49 course fee.
In this face to face college level algebra course, students will learn to apply algebraic reasoning to solve problems effectively. They will develop skills in linear and quadratic functions, general polynomial functions, rational functions, and exponential and logarithmic functions. Students will also study systems of linear equations. This course will emphasize problem-solving techniques, specifically by means of discussing concepts in each of these topics. During the final semester, students will have the opportunity to participate in an eight week online course via ASU Global Freshman Academy. Students who successfully complete the course with a C or better may be eligible for 3 hours of university academic credit* in addition to the high school credit.

* A $600 (USD) credit fee is required to receive the university academic credit after passing the online course with a C or better. This is optional and does not impact high school credit. Financial need scholarships may be available for those that qualify.

AS Pure Math 1 + Mechanics 1 (Pre-Calculus/ Mechanics) 1 Credit
Mathematics. Honors. Prerequisite: IGCSE Additional Math
The Cambridge International Examinations advanced subsidiary (AS) syllabus requires students to deepen their mastery of their skills in the language of functions, algebra, trigonometry, and precalculus. Students will also be exposed to topics in vectors, series and sequences, as well as introductory topics in differential and integral calculus. Students will be expected to apply their understanding in these areas to mechanical phenomena such as forces, mechanical energy, Newton’s Laws of Motion, and the language of motion. Mathematics courses at the Cambridge AS-Level are rigorous and focus heavily on mathematical reasoning, problem solving, and clear communication of processes and methods.
A Level Pure Math 2/3 + Mechanics 2 (Calculus/Mechanics) 1
Credit

The Cambridge International Examinations advanced (A-Level) syllabus requires students to deepen their mastery of their skills in the language of algebra, trigonometry, calculus, and vector geometry. Students will also be exposed to topics in numerical methods of solving equations, geometry and algebra in the complex plane, logarithms, as well as an introduction to differential equations. Students will be expected to apply their understanding in these areas to mechanical phenomena such as static equilibrium, uniform circular motion, motion associated with elastic objects, and motion under variable forces. Mathematics courses at the Cambridge A-Level are rigorous and focus heavily on mathematical reasoning, problem solving, and clear communication of processes and methods.

Science

IGCSE Biology
IGCSE Chemistry
IGCSE Physics
AS Level Biology
AS Chemistry
AS Level Physics
A Level Biology
A Level Physics
ASU Biology 181/182
ASU Sustainable Worlds

IGCSE Biology 1 Credit
Science. Prerequisite: none.

With an emphasis on human biology, this course enables students to understand the technological world in which they live, and take an informed interest in science and scientific developments. Students will gain an understanding of the basic principles of biology through a mix of theoretical and practical studies. They will also develop an understanding of the scientific skills essential for further study at Cambridge International AS/A Level, which are useful in everyday life. As they progress, learners understand how science is studied and practiced, and become aware that the results of scientific research can have both beneficial and negative effects on individuals, communities and the environment.
IGCSE Chemistry

Science. Prerequisite: IGCSE Bio or IGCSE Physics.

The purpose of this course is to develop skills that are relevant to the study and practice of chemistry. Students will acquire sufficient knowledge and understanding to become confident citizens in a technological world and develop an informed interest in scientific matters. The course will enable them to practice a systematic approach to problem solving and develop attitudes relevant to chemistry such as concern for accuracy and precision, objectivity, integrity, enquiry, initiative, inventiveness. This course will allow students to recognize that science is evidence based and understand the usefulness and limitations of scientific method. It also aims to enable students to appreciate that science is subject to social, economic, technological, ethical and cultural influences and limitations.

IGCSE Physics

Science. Prerequisite: Math 1

The purpose of this course is to provide exploratory experiences, laboratory experience, and real-life applications in the physical sciences. Students will become confident citizens in a technological world with an informed interest in scientific matters; recognize the usefulness (and limitations) of the scientific method and its application in other subjects and in everyday life; and be suitably prepared for studies in physical sciences.

AS Level Biology

Science. Honors. Prerequisite: IGCSE Biology.

The purpose of this course is to provide exploratory experiences, laboratory experience, and real-life applications in the biological sciences in an accelerated fashion. Students will become confident citizens in a technological world with an informed interest in scientific matters; recognize the usefulness (and limitations) of the scientific method and its application in other subjects and in everyday life; and be suitably prepared for studies in biological sciences in continuing A Level courses.

AS Level Chemistry

Science. Honors. Prerequisite: IGCSE Chemistry.

Students study chemistry in a range of different contexts, conveying the excitement of contemporary chemistry. Ideas are introduced in a spiral way with topics introduced in an early part of the course reinforced later. This specification continues to place a particular emphasis on an investigational and problem-solving approach to practical work. A flexible approach where the specification is divided into topics, each covering different key concepts of chemistry. Teaching of practical skills is integrated with the theoretical topics and they’re assessed both through written papers and Practical Endorsement.
AS Level Physics  

**Science. Honors. Prerequisite: IGCSE Physics, Math 2**

The purpose of this course is to provide exploratory experiences, laboratory experience, and real-life applications in the physical sciences in an accelerated fashion. Students will become confident citizens in a technological world with an informed interest in scientific matters; recognize the usefulness (and limitations) of the scientific method and its application in other subjects and in everyday life; and be suitably prepared for studies in physical sciences in continuing A Level courses.

A Level Biology  

**Science. Honors. Prerequisite: AS Level Biology and Teacher Recommendation.**

The purpose of this course is to provide exploratory experiences, laboratory, and real-life applications in the biological sciences. Students will demonstrate knowledge and understanding of biological phenomena, facts, laws, definitions, concepts, and theories; biological vocabulary, terminology, and conventions (including symbols, quantities, and units); scientific instruments and apparatus, including techniques of operation and aspects of safety; scientific quantities and their determination; and scientific and technological applications with their social, economic, and environmental implications. Students will apply this knowledge and skills to use techniques, apparatus, and materials (including the following of a sequence of instructions, where appropriate); make and record observations and measurements; interpret and evaluate experimental observations and data; plan biological investigations, evaluate methods, and suggest possible improvements (including the selection of biological techniques, apparatus, and materials).

A Level Physics  

**Science. Honors. Prerequisite: AS Level Physics and IGCSE Additional -Teacher Recommendation.**

The purpose of this course is to provide exploratory experiences, laboratory experience, and real-life applications in the physical sciences in an accelerated fashion. Students will become confident citizens in a technological world with an informed interest in scientific matters; recognize the usefulness (and limitations) of the scientific method and its application in other subjects and in everyday life; and be suitably prepared for studies in physical sciences in college courses.

ASU Sustainable World SOS 110  

**Science Elective. Honors. Prerequisite: Junior/Senior status. $50 course fee.**

Sustainable World will introduce you to the field of sustainability and explore the fundamental question of how human and natural systems interact. Sustainable World focuses more on how the environment functions, but also addresses how humans interact with the environment: how we shape the environment and how it shapes us. Using real world issues and problems, you will learn about the fundamental Earth systems on which we depend.
*A $250 (USD) credit fee is required to receive the university academic credit after passing the online course with a C or better. This is optional and does not impact high school credit. Financial need scholarships may be available for those that qualify.

**Social Studies**

**IGCSE World History**
**IGCSE American History**
**Economics**
**U.S. Government**

**IGCSE World History**
*1 Credit*

*Social Studies. Required. Prerequisite: none.*

The purpose of this course is to stimulate an interest in and enthusiasm about the past for students. Students will develop an ability to recall, select, organize, and appropriately deploy knowledge of World History from either the 19th or 20th Century. Students will also demonstrate an understanding of the past through explanation, analysis, and substantiated judgments of change and continuity; cause and consequence; similarity and difference; and historical significance. Students will analyze the motives, emotions, intentions, and beliefs of people in the past so that they can deploy the ability to understand, analyze, evaluate, and use critically a range of sources as evidence in their historical context.

**IGCSE American History**
*1 Credit*

*Social Studies. Required. Prerequisite: none.*

The purpose of this course is to stimulate an interest in and enthusiasm about the past for students. Students will develop an ability to recall, select, organize, and deploy knowledge of American History appropriately. Students will also demonstrate an understanding of the past through explanation, analysis, and substantiated judgments of change and continuity; cause and consequence; similarity and difference; and historical significance. Students will analyze the motives, emotions, intentions, and beliefs of people in the past. Students will also develop the ability to understand, analyze, evaluate, and use critically a range of sources as evidence in their historical context, as students will also be asked to consider American History through the lens of local history. Students will use critically a range of sources to generate an interpretation of the significance of a local site or object in its historical context and provide appropriate acknowledgment of sources.

**Economics**
*0.5 Credit*

*Social Studies. Required. Prerequisite: Taken concurrently with Government.*

The purpose of this course is for students to develop a foundational understanding of economics; and the ways economic data may be analyzed, correlated, discussed, and presented. Students will demonstrate knowledge and understanding of the advanced economics content; interpret economic information presented in verbal, numerical, or graphical form; and explain and analyze economic issues and arguments, using relevant economic concepts, theories, and information.
Students will be expected to evaluate economic information, arguments, proposals, and policies, taking into consideration relevant information and theory, and distinguishing facts from hypothetical statements and value judgments. By the end of the course, students will be able to organize, present, and communicate economic ideas and informed judgments in a clear, logical, and appropriate form.

**Government**
Social Studies. Required. Prerequisite: Taken concurrently with Economics.
In this course, students apply knowledge gained in previous years of study to pursue a deeper understanding of the institutions of government. In addition, they draw on their studies of world and American history and geography and other societies to compare differences and similarities in world governmental systems today. This course is the culmination of history/social sciences classes to prepare students to solve society’s problems, to understand and to participate in the governmental process, and to be responsible citizens of the United States and the world.

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**Health and Fitness Education**

**Health, Wellness & Fitness**
Lifetime Fitness
Sports Physiology

**Health, Wellness & Fitness**
Required. Prerequisite: none.
In this course students will develop an understanding of the importance of healthy choices and the influence of our friends in maintaining health and wellness while developing a fitness routine that will support health & wellness.

**Lifetime Fitness - LS Pathway**
Elective. Prerequisite: none.
In this course students will develop personalized fitness, wellness, and nutrition plans. Students will be able to analyze and apply the concepts learned to daily life and fitness. This course can be tailored to the specific fitness and nutritional needs of each student.

**Sports Physiology - LS & SBS Pathways**
Elective. Prerequisite: none.
Sports Physiology is a laboratory-based course that investigates the structure and function of the human body in relation to sports. Topics covered will include the basic organization of the body, and major body systems along with the impact of diseases on certain systems.

World Languages

Spanish I
Spanish II
Spanish III
Spanish IV
French I
Mandarin Chinese I
Mandarin Chinese IV

Spanish I 1 Credit

*World Languages. Prerequisite: none.*

The primary objective of Spanish I is to provide basic conversational skills. The emphasis is on communication in everyday situations. Skills such as listening, reading and writing will be part of Spanish I. Another component of the course is the study of Spanish-speaking countries and their culture.

Spanish II 1 Credit

*World Languages. Prerequisite: Spanish I.*

The objective of this course is to foster in students a better command of the grammatical structures and vocabulary to facilitate conversation. Skills such as listening, reading and writing are emphasized. Spanish-speaking countries and their cultures will be examined.

Spanish III 1 Credit

*World Languages. Honors. Prerequisite: Spanish II.*

The objective of this course is to be able to describe and narrate in a proper Spanish language style, and defend ideas in a conversation with valid arguments and a wide vocabulary. Students will become familiar with different editing techniques. Students will be able to debate and discuss, and to compare and contrast different readings.

Spanish IV 1 Credit

*World Languages. Honors. Prerequisite: Spanish III.*

Students continue their mastery of listening, speaking, reading, and writing skills. Reading is both intensive and extensive, encompassing all genres, including both newspaper and magazines. The course has a required reading list of authors and poets such as Gabriel García Márquez, Miguel de Cervantes, Isabel Allende, Miguel de Unamuno, etc. Current TV programs, radio broadcasts, and tapes comprise the listening component of the course. The course also includes a year-long review of Spanish grammar.
**French I**  
1 Credit  
*World Languages. Prerequisite: none.*  
The primary objective of French I is to provide basic conversational skills. The aim is to develop an ability to use the language effectively for purposes of practical communication. The course is based on the linked language skills of listening, reading, speaking and writing, and these are built on as learners progress through their studies. This course also aims to offer insights into the countries where French is spoken and their culture, thus encouraging positive attitudes towards language learning and towards speakers of foreign languages.

**French 2**  
1 Credit  
*World Languages. Prerequisite: none.*  
French 2 offers a continuation of the vocabulary, grammar, and culture study introduced in French 1. Students will target the improvement of all four language skills – speaking, writing, reading and listening comprehension – while acquiring new vocabulary related to varying themes in their textbook (a combination of *D'accord: Levels 1-2*). Students will also access different sources including short stories, songs, and video clips from which to learn, as well as prepare several projects related to their language acquisition.
Capstone
Each year at ASU Preparatory Academy students study the pillars of leadership, social entrepreneurship, partnership, and academic preparation in their Capstone class. Faculty advisors assist them in the development of a portfolio that includes research projects, internship experiences, community service, and public speaking events. Each quarter, students, parents, and their Capstone mentors create an individualized learning plan to ensure each student is on track to graduate and be successful in a four-year college or university. In order to fulfill our mission, mentors remain connected to their cohort for the first year of college to provide support and guidance during, what research shows, is the most critical year for students earning an undergraduate university degree. The Capstone focus will be determined by each student’s chosen Pathway.

Capstone

Capstone. Required. Will be repeated for credit.
Capstone is a hands-on, integrative learning experience that provides students with the valuable opportunity to apply their knowledge and skills in real world scenarios. This course will utilize the IGCSE Global Perspectives curriculum while instructors infuse the learning with aspects from the student’s pathway of choice. The course emphasis is on the development and application of skills through research, analysis and evaluation, development and justification of reasoning, reflection and processing of outcomes, effectively communicating, and collaborating to achieve a common outcome. The culmination of the course will be a group project, which will include individual and group performance tasks as well as written reports/ reflections.

Students will choose one of the following Pathways:
Liberal Arts and Humanities Capstone
Engineering and Technology Capstone
Life Sciences Capstone
Social and Behavioral Sciences Capstone

Senior Capstone

Senior Capstone. Required.: All Senior Status Students.
ASU Prep Senior Capstone assists students through support in study, leadership and academic skills. Students solidify a variety of college and career knowledge through skills involving resume, cover letter writing, interview skills, college applications, scholarship and the financial aid process.
Fine Art Electives

All students are required to complete at least two Fine Art courses.
Additional Fine Art electives are part of the LAH Pathway however, they may be taken by students in any pathway.

IGCSE Art & Design
Art Portfolio
AS Level Art & Design
Creative Writing
Dance Technique
IGCSE Music
Music Appreciation
Music Ensemble
Theatre Production (Art, Drama, Music)

IGCSE Art & Design - LAH Pathway 1 Credit
Fine Arts. Elective. Prerequisite: none.
This course encourages personal expression, imagination, sensitivity, conceptual thinking, powers of observation, and an analytical ability. It also enables students to develop creativity, visual awareness, and critical and cultural understanding; an imaginative, creative, and personal response; and confidence, enthusiasm, and a sense of achievement. It is especially concerned with the development of visual perception and aesthetics and is a form of communication and a means of expressing ideas and feelings. You will produce a range of artworks and designs showing visual knowledge and understanding along with critical and cultural awareness. Students will explore and experiment with appropriate materials, selecting, and controlling appropriate media and processes, demonstrating practical, technical, and expressive skills and intentions. By the end of the course, students will be able to show personal vision and commitment through an interpretive and creative response and present an informed response through personal evaluation, reflection, and critical thinking. Students will analyze design briefs and tackle practical design tasks.

Art Portfolio - LAH Pathway 1 Credit
The purpose of this course is to enable students to communicate and express through visual perception and aesthetic experiences an artistic language in addition to those used by literary, mathematical, scientific, and factually-based subjects. This studio-based language will enable students to develop their abilities of observation and analysis of the visual world, sensitivity, skill, personal expression, and imagination. Students should also learn to relate these skills to an enhanced knowledge of their own and other cultures, past, and present, and an appreciation of practical design problems. Students will continue to develop skills gained in AS Level Art or
Design, with new emphasis on manipulative, artistic, and analytical skills, as well as an appreciation of aesthetic qualities.

**AS Level Art & Design - LAH Pathway**  
*Fine Arts. Elective. Prerequisite: IGCSE Art and Design. Recommended: Art Portfolio*  
The purpose of this course is to enable students to communicate and express through visual perception and aesthetic experiences an artistic language in addition to those used by literary, mathematical, scientific, and factually-based subjects. This studio-based language will enable students to develop their abilities of observation and analysis of the visual world, sensitivity, skill, personal expression, and imagination. Students will continue to develop skills gained in IGCSE Art & Design, with new emphasis on manipulative, artistic, and analytical skills, as well as an appreciation of aesthetic qualities. Students should also learn to relate these skills to an enhanced knowledge of their own and other cultures, past, and present, and an appreciation of practical design problems.

**Creative Writing - LAH Pathway**  
*Fine Arts. Elective. Prerequisite: none.*  
This is an introductory course in creative writing. Short spontaneous exercises and longer assignments combine to motivate, and refine, students’ writing, both about the chronicler’s main subjects (place, people, and things) and about the fiction writer’s concerns (character, plot or narrative economy, and closure). Whether fiction or nonfiction, students’ writing is discussed via criteria pertinent to literary work. Learning to analyze a piece of writing critically is a key component of the course. Guidelines/criteria will be provided. Students are encouraged to apply them as well as to improvise, as long as opinions are always grounded in evidence from the relevant text.

**Dance Technique - LAH Pathway**  
*Fine Arts Elective. Prerequisite: none.*  
Dance Technique exposes students to many different styles of dance. It is also designed to teach technique and build strength and flexibility. Students will learn about many styles of dances, not only through choreography, but also through examination of dance history and vocabulary. Students will develop an awareness of body alignment and movement.

**IGCSE Music - LAH Pathway**  
*Fine Arts. Elective. Prerequisite: none.*  
IGCSE Music encompasses a vast array of musical avenues, from Western music history, to World Music, advanced music theory, and performing and composing music. Students will be asked to work rigorously as they build their skills in listening, creating, and interpreting music with a variety of instruments. Students who already play an instrument are welcome to bring their instrument for utilization in class projects.

**Music Appreciation - LAH Pathway**  
*Fine Arts. Elective. Prerequisite: none.*
In Music Appreciation, students will learn about music and musicians from the past and present, and will acquire the vocabulary and critical thinking skills needed to discuss and comprehend all kinds of music at a deeper level. Music Appreciation class will provide students the opportunity to discover new kinds of music from all over the world, compare and contrast musical forms, and share and analyze their own musical interests.

**Music Ensemble - LAH Pathway**

*Fine Arts. Elective. Prerequisite: none.*

In Music Ensemble, students will compose and perform many styles of music, including percussion-based music, blues, various song forms, and much more. Students will learn to create and arrange music in many contexts. Students who already play an instrument are welcome to bring their instrument for utilization in class projects.

**Theatre Production - LAH Pathway**

*Fine Arts. Elective. Prerequisite: none.*

Theatrical production class takes place in two parts: for the first half of the school year, students rotate through sections of Drama, Art, and Music, learning rudiments and experiencing how each element contributes to the whole of a production. The second half of Theatrical Production will involve the production of a theatre piece that will be performed at the end of the school year.

**Additional Electives**

*Corresponding pathways (see p.4) are noted next to each elective. These include Engineering and Technology (ET), Liberal Arts and Humanities (LAH), Life Sciences (LS), and Social and Behavioral Sciences (SBS). Students are encouraged to choose electives that correspond with their chosen pathway, however they may choose electives outside of their pathway given Admin/Counselor approval.*

- Business
- IGCSE Computer Science
- Marketing
- Principles of Engineering
- Robotics
- Sociology
- Yearbook/Journalism
- Academic Apprenticeship
- Independent Study

**Business - SBS Pathway**

*Elective. Prerequisite: none.*
Students in this class will learn about business on the international scale and what factors affect its growth, spread, and change. Basic business concepts are introduced and then students will use these to examine the world around them and their place in it. International Business topics include: legal aspects, finance, regional integration, trade relations, and business organization. Students will learn about, discuss, expand, and interpret these concepts in a variety of ways.

**Engineering II-Robotics - ET Pathway**  
*Elective. Prerequisite: none. Materials fees may apply.*  
Students will work in teams to design, build, and code a working robot. Coding languages may include LabView and/or Java. Students will also learn basic machining and building techniques. Students will learn team building and communication skills as they work in conjunction with the after school robotics club. The final robot will be entered in the FIRST Robotics regional competition in April.

**Computer Science - ET Pathways**  
*Prerequisite: none.*  
The purpose of this course is to develop an interest in, enjoyment of, and confidence in the use of computing. They will develop an appreciation of the range and power of computer applications and solve problems using computing; their studies include systems analysis, algorithm design and programming concepts. Students will consider a broad range of computer applications, to develop an understanding of the power and versatility of the computer and the benefits of its use, but also its limitations and potential disadvantages. Students will learn basic computer literacy of microsoft products as well as coding languages such as Python and Java.

**Marketing - LAH & SBS Pathways**  
*Elective. Prerequisite: none.*  
This courses introduces the purpose of marketing and its role in society. Students will especially focus on sports marketing in the context of event marketing, search engine optimization, finance, product marketing, and different types of careers. Students will learn about, discuss, expand, and interpret these concepts in a variety of ways.

**Principles of Engineering I - ET Pathway**  
*Elective. Prerequisite: none.*  
Introduction to Engineering Design is a course that aims to provide students with an understanding of the engineering field as a whole. Students will explore how engineers from a variety of disciplines work with customers to solve problems in a systematic manner. During the course, students will interact with prospective clients in order to solve authentic problems and affect the community in a positive fashion. Students will be introduced to the engineering design process as well as the teaming and communication skills necessary for success in the engineering field.

**Sociology - SBS Pathway**  
*Elective. Prerequisite: none.*
In this course, students are introduced to the study of human behavior in society. This course provides an overview of sociology, including (but not limited to) topics as social institutions and norms, socialization and social change, and the relationships among individuals and groups in society. Students will develop and understanding of how we become who we are, the ability to analyze human behavior in society, an appreciation for research methods, and the ability to use evidence and ideas to challenge beliefs about issues such as equality, family, education, and crime.

**Journalism - LAH Pathway**  
*Elective. Prerequisite: Application.*

The purpose of this course is to enable students to research and report newsworthy information in a manner effective for particular mediums. Students will study the legal, ethical, and societal responsibilities of journalists and prepare material that meets those standards and responsibilities. Throughout the course, students will explore work created by historically significant and current professionals and will hone media literacy skills. Students will utilize foundational journalism skills and professional practices to create and manage an online magazine. Students in this class will need to be organized and adhere to strict deadlines.

**Yearbook- LAH Pathway**  
*Elective. Prerequisite: Application.*

Students in this class will develop skills in graphic design, design software, digital photography, image manipulation software, journalistic writing techniques, principles of advertising including accounting and ad design, and leadership and cooperative work groups. This course is deadline driven and will require participation outside of regular class hours. Students are encouraged to attend sporting events, dances, as well as other student activities. Students are expected to be professional, punctual, organized, motivated, and possess strong artistic, reading and writing skills upon entering the class. This class provides foundational development in professional standards and yearbook journalism, as well as practice in adherence to due dates and accountability to peers.
**Academic Apprenticeship - ET, LAH, LS & SBS Pathways**  
1 Credit

Elective. Prerequisite: Completed Application and Counselor/Principal Recommendation. Academic Apprenticeships placements have a learning aspect associated with a degree program, career field, university research initiative; placements also exist as a means to explore on-campus jobs and work-study options. All are under the direction of a postsecondary faculty member or employee and a teacher at ASU Prep to create a unique internship experience for each student. Students have to go through an interview process and there is a performance review quarterly. Examples of past AcApp placements include:

- ASU Academic Placements: Algae Lab, Aviation Simulation Building, Engineering Lab, Mary Lou Fulton Teachers College
- ASU Career Services Placements: University Housing, Sun Devil Fitness, Print Lab, Student Union Event Management, Technology Help Desk

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### Academic Apprenticeship Elective Options

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<thead>
<tr>
<th>Current</th>
<th>Engineering and Technology</th>
<th>Life Sciences</th>
<th>Social and behavioral Sciences</th>
<th>Liberal Arts and Humanities</th>
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<tbody>
<tr>
<td>ASU Aviation Simulation Lab</td>
<td>ASU Algae Research Lab</td>
<td>ASU Prep Elementary/STEM - School Counseling - K-8 Education</td>
<td>Housing</td>
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<tr>
<td>ASU Engineering Lab</td>
<td>ASU Sustainability Dept.</td>
<td>Mary Lou Fulton College of Education</td>
<td>ASU Career Peer</td>
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<tr>
<td>ASU Technology Center - Print Lab - Help Desk</td>
<td>ASU Prep STEM - Athletic Director</td>
<td>ASU Career Peer</td>
<td>ASU Finance Dept.</td>
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<td></td>
<td>ASU Sun Devil Fitness Center</td>
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<tr>
<th>Possible</th>
<th>Engineering and Technology</th>
<th>Life Sciences</th>
<th>Social and behavioral Sciences</th>
<th>Liberal Arts and Humanities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classroom TA</td>
<td>ASU Agribusiness</td>
<td>ASU Student Government</td>
<td>Housing</td>
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<tr>
<td>Other options upon approval</td>
<td>ASU Pre-veterinarian</td>
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<td>ASU Career Peer</td>
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<td></td>
<td>ASU Applied Bio</td>
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<td>ASU Finance Dept.</td>
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All students must complete the application process and be granted an ASU Prep recommendation. Once they obtain the ASU Prep recommendation students will interview for their selected apprenticeship. Placement is not guaranteed.
Independent Study - ET, LAH, LS & SBS Pathways

Elective. Prerequisite: Counselor/Principal Recommendation.

The purpose of this course is to provide students the opportunity to complete online college-level elective courses available through ASU’s Global Freshman Academy. Courses must be approved by administration prior to enrollment and students must enroll in the Verified track, which requires an initial registration fee of $49-$99. Students who successfully complete college credit eligible courses with a C or better may be eligible for university academic credit in addition to the high school credit. Additional college course options may be available on a case by case basis.*

*A credit fee is required to receive the university academic credit after passing the online course with a C or better. The cost is dependent upon the course chosen and is often around $600. This is optional and does not impact high school credit. Scholarships may be available for those who qualify.

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**Independent Study Opportunities**

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<th>Social and behavioral Sciences</th>
<th>Liberal Arts and Humanities</th>
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<tr>
<td>ASU College Credit</td>
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<tr>
<td>Eligible via Global Freshman Academy</td>
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<td>Fees: $49-$99 enrollment</td>
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<td>* reduced tuition rates starting at $500+</td>
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<tr>
<td>Edx Verified courses</td>
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<tr>
<td>Fees: $49-$99</td>
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<td>(HS elective credit only)</td>
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<tr>
<td>• Astronomy</td>
<td>• Introduction to Health and Wellness</td>
<td>• Western Civilizations</td>
<td>• Western Civilizations</td>
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<tr>
<td>• Technology, social, and sustainable systems</td>
<td>• Human Origins</td>
<td>• Human Origins</td>
<td>• Human Origins</td>
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<tr>
<td>• ASU poly campus class</td>
<td>• ASU poly campus class</td>
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<tr>
<td>• Sustainable Urban Development</td>
<td>• Behavioral Medicine</td>
<td>• Intro to Project Management</td>
<td>• Media LIT</td>
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<tr>
<td>• Mobile App Experience - App Design</td>
<td>• Genetics</td>
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<tr>
<td>• Intro to Computer Science and Programming using Python</td>
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<tr>
<td>• Intro to Linux</td>
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<td>• Italian language and culture</td>
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<tr>
<td>• Cognitive Neuroscience-Robotics</td>
<td>• Industrial Biotechnology</td>
<td>• Leaders of Learning</td>
<td>• Academic and Business writing</td>
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<tr>
<td>Many more options available!</td>
<td>• Environmental sciences</td>
<td>• Communicating strategically</td>
<td>• Book studies</td>
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<td></td>
<td>• Solar Energy</td>
<td>• Deliberation for social change</td>
<td>• Creativity and Entrepreneurship</td>
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<td>• Intro to the music business</td>
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</table>

- ASU Poly Campus Course Via Collegiate Scholars: Tuition and fees apply. This option is available on a case-by-case basis only.
- Other collegiate offerings approved on a case-by-case basis.
Index of Courses

Capstone - 4 credits

Engineering and Technology Capstone 1 Credit
Capstone. Required. Can be repeated for credit.

Liberal Arts and Humanities Capstone 1 Credit
Capstone. Required. Can be repeated for credit.

Life Sciences Capstone 1 Credit
Capstone. Required. Can be repeated for credit.

Social and Behavioral Sciences Capstone 1 Credit
Capstone. Required. Can be repeated for credit.

English - 4 credits

IGCSE English First Language 1 Credit
English. Required. Prerequisite: none.

IGCSE English Literature 1 Credit
English. Required. Prerequisite: IGCSE English First Lang.

AS Level Literature 1 Credit
English. Honors. Prerequisite: IGCSE English Literature qualifying exam score and/or Teacher Recommendation.

A Level Literature 1 Credit
English. Honors. Prerequisite: AS Level Literature qualifying exam score and/or Teacher Recommendation.

English 11 1 Credit
English. Prerequisite: Junior.

English 12/English 101 (English Composition) 1 Credit
English. Prerequisite: Senior.

Research & Writing - 2 credits

Research & Writing I 1 Credit
Research and Writing. Required. Prerequisite: none.

Research & Writing II 1 Credit
Research and Writing. Required. Prerequisite: none.
Fine Arts - 2 credits

IGCSE Art & Design 1 Credit
Fine Arts. Required. Prerequisite: none.

Art Portfolio 1 Credit

AS Level Art & Design 1 Credit

Creative Writing 1 Credit
Fine Arts, Elective. Prerequisite: none.

Dance Technique 1 Credit
Fine Arts. Elective. Prerequisite: none.

IGCSE Music
Fine Arts. Elective. Prerequisite: none.

Music Appreciation 1 Credit
Fine Arts. Elective. Prerequisite: none.

Music Ensemble 1 Credit
Fine Arts. Elective. Prerequisite: none.

Theatre Production (Art, Drama, Music) 1 Credit
Fine Arts. Elective. Prerequisite: none.

Additional Electives - 1 or more credits

Business 1 Credit
Elective. Prerequisite: none.

IGCSE Computer Science 1 Credit
Elective. Prerequisite: none.

Marketing 1 Credit
Elective. Prerequisite: none.

Principles of Engineering 1 Credit
Elective. Prerequisite: IGCSE Additional or Teacher recommendation.

Robotics 1 Credit
Elective. Prerequisite: IGCSE Additional or Teacher recommendation.

Sociology 1 Credit
Elective. Prerequisite: none.

Yearbook/Journalism 1 Credit
Elective. Prerequisite: Application.

Academic Apprenticeship 1 Credit
Elective. Prerequisite: Application and Interview.

Independent Study 1 Credit
Elective. Prerequisite: Academic Advisor Approval.
Health and Fitness Education - 1 credit

Health, Wellness & Fitness 1 Credit
Required. Prerequisite: none.

Lifetime Fitness 1 Credit
Elective. Prerequisite: none.

Sports Physiology 1 Credit
Elective. Prerequisite: Junior or Senior.

Mathematics - 4 credits

IGCSE Mathematics I (Algebra I) 1 Credit
Mathematics. Required. Prerequisite: Placement Exam.

IGCSE Mathematics II (Geometry) 1 Credit
Mathematics. Required. Prerequisite: IGCSE Mathematics I and/or Placement Exam.

IGCSE Additional Mathematics (Algebra II) 1 Credit
Mathematics. Not Required. Prerequisite: IGCSE Mathematics II.

College Algebra 1 Credit
Mathematics. Not Required. Prerequisite: IGCSE Additional Mathematics and/or Teacher Placement.

AS Level Pure Math 1 + Mechanics 1 (Pre-Calculus) 1 Credit
Mathematics. Honors. Prerequisite: IGCSE Additional Math or IGCSE Math II + Teacher Recommendation.

A Level Pure Math 2 + Mechanics 2 (Calculus/Mechanics) 1 Credit

Science - 4 credits*

IGCSE Biology 1 Credit
Science. Prerequisite: none.

IGCSE Chemistry 1 Credit
Science. Prerequisite: none.

IGCSE Level Physics 1 Credit
Science. Prerequisite: none.

AS Level Biology 1 Credit
Science. Honors. Prerequisite: IGCSE Biology and/or Math 2

AS Chemistry 1 Credit
Science. Prerequisite: IGCSE Chemistry and/or Math 2

AS Level Physics 1 Credit
Science. Honors. Prerequisite: IGCSE Physics and/or Math 2

A Level Biology 1 Credit
Science. Honors. Prerequisite: AS Level Biology qualifying exam score and/or Teacher Recommendation.
A Level Physics 1 Credit  
Science. Honors. Prerequisite: AS Level Physics qualifying exam score and/or Teacher Recommendation.

ASU Sustainable World SOS 110  
Science. Honors. Prerequisite: Junior/senior status.

Social Studies - 3 credits  
IGCSE World History 1 Credit  
Social Studies. Required. Prerequisite: none.

IGCSE American History 1 Credit  
Social Studies. Required. Prerequisite: none.

Economics/U.S. Government 1 Credit  
Social Studies. Required. Prerequisite: none.

World Languages - 3 credits  
Spanish I 1 Credit  
World Languages. Prerequisite: none.

Spanish II 1 Credit  
World Languages. Prerequisite: Spanish I.

Spanish III 1 Credit  
World Languages. Prerequisite: Spanish II.

Spanish IV 1 Credit  
World Languages. Honors. Prerequisite: Spanish III.

French I 1 Credit  
World Languages. Prerequisite: none.

French 2 1 Credit  
World Languages. Prerequisite: none.