HIGH SCHOOL STEM
GO BEYOND
A Course Guideline

4 high schools. 4 years. 4 pathways.
4 ALL.
Science Associate Degree Pathways:  
- Associate of Science Degree in Biology-Human Biology  
- Associate of Science Degree in Biology-Organismal  
- Associate of Science Degree in Chemistry  
- Associate of Science Degree in Environmental Science  

Sciences Up to 30 College Hours  
STEM CTE Science  
Renewable Energy Cluster

Technology Associate Degree Pathway:  
- Associate of Science Degree in Computer Science  

Technology Pathway Core Complete  
Technology Pathway up to 30 College Hours

Engineering Associate Pathway:  
- Associate of Science Degree in Engineering  

Engineering Core Complete  
Engineering Pathway up to 30 College Hours  
STEM CTE Engineering  
Engineering Cluster  
Robotics Cluster

Mathematics Associate Degree Pathway:  
- Associate of Science Degree in Mathematics  

Mathematics Pathway up to 30 College Hours

Why STEM?  
Board of Trustees
**Vision**
To develop a vision of future academic and career possibilities and enable students to translate those visions into the realities of college graduation, informed citizenship, and international leadership.

**Mission**
Through a technology enriched curriculum designed to activate analytical, critical, and inventive thinking, Killeen ISD STEM Academy will prepare students to thrive in a highly complex 21st century society by providing project based learning opportunities that engage, excite, and empower students to be self-motivated, adept, lifelong learners.
science

noun
The intellectual, and practical activity encompassing the systematic study of the structure, and behavior of the physical, and natural world through observation, and experiment.
Total College Hours: 72
*College Credit

High School Course | College Course
---|---
English I PreAP | 9th Grade
World History PreAP or AP World History | MATH 1414*/ 2412*
Algebra II | GOVT 2306*
Biology PreAP | SPCH 1315*/ HUMA 1315*
PE or Athletics |  
LOTE II |  
Geometry PreAP |  

10th Grade

English II PreAP
Chemistry PreAP
Dual Credit Algebra/ PreCal
Special Topics in Social Studies TX GOVT
Communication Applications/ Art I
Elective x 2.5
### Degree in Biology - Human Biology

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<tr>
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<tr>
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<td><strong>12th Grade</strong></td>
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<tr>
<td>English IV</td>
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<tr>
<td>Anat &amp; Physio / Microbiology</td>
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<tr>
<td>Economics</td>
<td>ECON 2301*</td>
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<tr>
<td>(SRD III) Dual Credit Chemistry</td>
<td>CHEM 2423*/ 2425*</td>
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<tr>
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Total College Hours: 64
*College Credit

High School Course

9th Grade
- English I PreAP
- World History PreAP or AP World History
- Algebra II PreAP
- Biology PreAP
- PE or Athletics
- LOTE II
- Elective

10th Grade
- English II PreAP
- Geometry PreAP
- Chemistry PreAP
- Special Topics in Social Studies TX GOVT
- Communication Applications/ Art I
- Elective x 2.5

College Course

GOVT 2306*
SPCH 1315*/ HUMA 1315*
### High School Course

#### 11th Grade
- English III
- Dual Credit Algebra/PreCal
- Physics PreAP or AP Physics
- US History
- (SRD I) Dual Credit Biology
- Elective x 2

#### 12th Grade
- English IV
- (SRD I) Dual Credit Chemistry / Environmental
- Government
- Economics
- (SRD III) Dual Credit Zoology/Microbiology
- AP Statistics
- Elective x 2

### College Course

#### 11th Grade
- ENGL 1301*/ 1302*
- MATH 1414*/ 2412*
- HIST 1301*/ 1302*
- BIOL 1406*/ 1407*

#### 12th Grade
- ENGL 2322*/ 2323*
- CHEM 1411*/ ENVR 1401*
- GOVT 2305*
- ECON 2301*
- BIOL 1413*/ 2421*
### High School Course

9th Grade
- English I PreAP
- World History PreAP or AP World History
- Algebra II PreAP
- Biology PreAP
- PE or Athletics
- LOTE II
- Geometry PreAP

10th Grade
- English II PreAP
- Chemistry PreAP
- Dual Credit Algebra/ PreCal
- Special Topics in Social Studies TX GOVT
- Communication Applications/ Art I
- Elective x 2.5

### College Course

- MATH 1414* / 2412*
- GOVT 2306*
- SPCH 1315*/ HUMA 1315*

*College Credit

**Total College Hours: 64**
11th Grade
- English III
- (SRD I) Dual Credit Biology/Physics
- US History
- (SRD I) Dual Credit Chemistry
- AP Calculus AB
- Elective x 2

12th Grade
- English IV
- (SRD III) Dual Credit Organic Chemistry
- Government
- Economics
- AP Statistics
- Elective x 3

College Course
- ENGL 1301*/ 1302*
- BIOL 1406*/ PHYS 1401*
- HIST 1301*/ 1302*
- CHEM 1411*/ 1412*

- ENGL 2322*/ 2323*
- CHEM 2423*/ 2425*
- GOVT 2305*
- ECON 2301*
Total College Hours: 64
*College Credit

**High School Course**  
**College Course**

**9th Grade**
- English I PreAP
- World History PreAP or AP History
- Algebra II PreAP
- Biology PreAP
- PE or Athletics
- LOTE II
- Geometry PreAP

**10th Grade**
- English II PreAP
- Dual Credit Algebra/ PreCal
- Chemistry PreAP
- Special Topics in Social Studies TX GOVT
- Communication Applications/ Art I
- Elective x 2
- MATH 1414*/ 2412*
- GOVT 2306*
- SPCH 1315*/ HUMA 1315*
High School Course | College Course
---|---

11th Grade

- English III
- (SRD I) Dual Credit Physics
- US History
- (SRD II) Dual Credit Chemistry
- AP Calculus AB
- Elective x 2

ENGL 1301* / 1302*
PHYS 1401*/1402*
HIST 1301*/1302*
CHEM 1411*/1412*

12th Grade

- English IV
- Dual Credit Environmental Science
- Government
- Economics
- (SRD III) Dual Credit Physical Geology
- AP Statistics
- Elective x 3

ENGL 2322*/2323*
ENVR 1401*
GOVT 2305*
ECON 2301*
GEOL 1403*
Total Potential College Hours: 30
*College Credit

9th Grade Requirements:
- English I PreAP
- World History PreAP or AP World History
- Algebra II PreAP
- Biology PreAP
- PE or Athletics
- LOTE II
- Elective

10th Grade Requirements:
- English II PreAP
- SPCH 1315*/ HUMA 1315*
- Geometry PreAP
- Chemistry PreAP
- STEM Elective
- Elective x 2

11th Grade Requirements:
- ENGL 1301*/ 1302*
- HIST 1301*/ 1302*
- PreCal PreAP
- Physics PreAP or AP Physics
- Elective x 2

12th Grade Requirements:
- ENGL 2322*/ 2323*
- GOVT 2305*/ ECON 2301*
- AP Calculus AB
- AP Environmental Science
- Elective x 3
PATHWAY: CTE Science

Renewable Energy Cluster

9th Grade Requirements:
- English I PreAP
- Principles of Applied Engineering
- Algebra II PreAP
- Biology PreAP
- PE or Athletics
- LOTE II
- Elective

10th Grade Requirements:
- English II PreAP
- Engineering Des & Presentation I
- Geometry PreAP
- Chemistry PreAP
- World History PreAP
- Elective x 2

11th Grade Requirements:
- English III PreAP
- US History PreAP
- PreCal PreAP
- AC/DC Electronics
- Physics PreAP or AP Physics
- Elective x2

12th Grade Requirements:
- English IV
- Government
- Economics
- Engineering Mathematics (Choose 5th Math)
- Practicum in STEM- Renewable Energy (2)
- Engineering Science
- Elective
Technology

noun
The branch of knowledge that deals with the creation and the application of technical means and its interrelation with life, society, and the environment, drawing upon such subjects as industrial arts, engineering, applied science, and pure science.
### Total College Hours: 66

*College Credit*

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### Associate of Science Degree in Computer Science

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**PATHWAY: Core Complete**

Total Potential College Hours: 55
*College Credit

**9th Grade Requirements:**
- English I PreAP
- World History PreAP or AP World History
- Algebra II PreAP
- Biology PreAP
- PE or Athletics
- LOTE II
- Computer Science I

**10th Grade Requirements:**
- English II PreAP
- Discrete Math for Computer Science
- Geometry PreAP
- Chemistry PreAP
- SPCH 1315*/ HUMA 1315*
- AP Computer Science
- Elective

**11th Grade Requirements:**
- ENGL 1301*/ 1302*
- HIST 1301*/ 1302*
- PreCal PreAP
- AP Chemistry
- Principles of Technology
- Elective x 2

**12th Grade Requirements:**
- ENGL 2322/2323*
- GOVT 2305/ ECON 2301*
- MATH 2413*/ 1342* (CALC 1/ STAT)
- PHYS 1401*/ 1402*
- Computer Science 3
- Elective x 2
PATHWAY: Up to 30 College Hours

Total Potential College Hours: 30
*College Credit

9th Grade Requirements:
- English I PreAP
- World History PreAP or AP World History
- Algebra II PreAP
- Biology PreAP
- PE or Athletics
- LOTE II
- Computer Science I

10th Grade Requirements:
- English II PreAP
- Discrete Math for Computer Science
- Geometry PreAP
- Chemistry PreAP
- SPCH 1315*/ HUMA 1315*
- AP Computer Science
- Elective

11th Grade Requirements:
- ENGL 1301*/ 1302*
- HIST 1301*/ 1302*
- PreCal PreAP
- Physics PreAP or AP Physics
- Digital Forensics / Mobile APP Dev.
- Principles of Technology
- Elective

12th Grade Requirements:
- ENGL 2322*/ 2323*
- GOVT 2305*/ ECON 2301*
- AP Calculus AB
- AP Chemistry
- Computer Science 3
- Elective x 2

Total Potential College Hours: 30
*College Credit
Engineering

noun
The branch of science and technology concerned with the application of mathematics, science, economics, and social and practical knowledge to invent, innovate, design, build, maintain, research, and improve structures, machines, tools, and systems.
Total College Hours: 75
*College Credit

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PATHWAY: Core Complete

Total Potential College Hours: 54
*College Credit

9th Grade Requirements:
- English I PreAP
- World History PreAP or AP World History
- Algebra II PreAP
- Biology PreAP
- LOTE II
- Principles of Applied Engineering
- Elective

10th Grade Requirements:
- English II PreAP
- Chemistry PreAP
- Geometry PreAP
- SPCH 1315*/ HUMA 1315*
- AC/DC Electronics or Robotics I
- PE or Athletics
- Elective

11th Grade Requirements:
- ENGL 1301*/1302*
- HIST 1301*/1302*
- MATH 1414*/2412*
- Physics PreAP or AP Physics
- GOVT 2306*/ Elective
- Engineering Science
- Solid State Electronics or Robotics 2

12th Grade Requirements:
- ENGL 2322*/2323*
- GOVT 2305*/ ECON 2301*
- MATH 2413*/2414* (CALC I/CALC II)
- ENGR 1201*/2301*
- Engineering Design and Presentation
- Elective x 2
**PATHWAY: Up to 30 College Hours**

Total Potential College Hours: 30  
*College Credit*

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### 9th Grade Requirements:
- English I PreAP
- Algebra II PreAP
- Biology PreAP
- PE or Athletics
- Principles of Applied Engineering
- LOTE II
- Elective

### 10th Grade Requirements:
- English II PreAP
- Chemistry PreAP
- Geometry PreAP
- World History PreAP
- Principles of Technology
- Elective x 2

### 11th Grade Requirements:
- English III PreAP
- US History PreAP
- PreCal PreAP
- Physics PreAP or AP Physics
- Engineering Science
- Elective x 2

### 12th Grade Requirements:
- English IV
- Government
- Economics
- Engineering Mathematics
- Physics PreAP or AP Physics
- Digital Electronics
- Elective x 2
# Robotics Cluster

## 9th Grade Requirements:
- English I PreAP
- Algebra II PreAP
- Biology PreAP
- PE or Athletics
- Principles of Applied Engineering
- LOTE II
- Elective

## 10th Grade Requirements:
- English II PreAP
- Geometry II PreAP
- Chemistry PreAP
- World History PreAP
- Robotics I
- Elective x 2

## 11th Grade Requirements:
- English II PreAP
- US History PreAP
- PreCal PreAP
- Robotics II
- Physics PreAP or AP Physics
- Elective x 2

## 12th Grade Requirements:
- English IV
- Government
- Economics
- Engineering Mathematics (Choose 5th Math)
- Practicum in STEM: Robotics (2)
- Engineering Science
- Elective
Math·e·mat·ics

noun
Mathematics is the science that deals with the logic of shape, quantity, and arrangement using processes, rules, and symbols.
PATHWAY: Associate of Science Degree in Mathematics

Total College Hours: 63
*College Credit

High School Course

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<tr>
<td>(ISM III) Calc III/ Differential Equations</td>
<td>MATH 2415*/ 2320*</td>
</tr>
<tr>
<td>Elective x 3</td>
<td></td>
</tr>
</tbody>
</table>
PATHWAY: Up to 30 College Hours

Total Potential College Hours: 30

9th Grade Requirements:
- English I PreAP
- World History PreAP or AP World History
- Algebra II PreAP
- Biology PreAP
- Geometry PreAP
- PE or Athletics
- LOTE II

10th Grade Requirements:
- English II PreAP
- PreCal PreAP
- Chemistry PreAP
- SPCH 1315*/ HUMA 1315*
- STEM Elective
- Elective x 2

11th Grade Requirements:
- ENGL 1301*/ 1302*
- HIST 1301*/ 1302*
- AP Calculus AB
- Physics PreAP or AP Physics
- Elective x 3

12th Grade Requirements:
- ENGL 2322*/ 2323*
- GOVT 2305*/ ECON 2301*
- AP Calculus BC
- AP Chemistry
- AP Statistics
- Elective x 2
Why STEM?

The STEM Academy is a problem based learning environment that offers opportunities for students to create solutions for questions yet to be asked.

The goal of the KISD High School STEM Academy is to offer STEM opportunities to all students no matter where they begin their STEM journey. KISD’s HS STEM Program offers flexibility in multiple entry points. Talk to your counselor to determine your best entry point into the STEM Program.

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