LCISD
Career Cluster Offerings
By Endorsement
2019-2020

Arts & Humanities
- Art
- Band
- Choir
- Dance
- English
- Foreign Language
- Social Studies
- Theatre

Business & Industry
- Agriculture, Food & Natural Resources: Animal Science
- Agriculture, Food & Natural Resources: Horticultural Science
- Agriculture, Food & Natural Resources: Process Technology
- Architecture & Construction: Construction
- Architecture & Construction: HVAC
- Arts, Audio/Video Technology & Communications
- Business Management & Administration
- Combination

Public Service
- English
- Hospitality & Tourism: Culinary Arts
- Information Technology: Computer Technology
- Information Technology: Cyber Security
- Manufacturing: Welding
- Manufacturing: Machining Technology
- Marketing
- Transportation: Automotive Technology
- Transportation: Diesel

STEM
- Computer Science
- Education & Training
- Health Science
- JROTC
- Mathematics
- Science
- PLTW Engineering
- STEM: Combination

Multidisciplinary
- Four credits in each of the four foundation subject areas to include English IV, Chemistry and/or Physics
- Four Advanced courses that prepare students to enter workforce or postsecondary education without remediation from within 1 endorsement area or among endorsement areas that are not in a coherent sequence
- Four credits in AP or dual credit selected from English, math, science, social studies, economics, LOTE or fine arts

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Arts & Humanities Endorsement
4 Credits in the SAME Language Sequence
2019-2020

Spanish I or Spanish for Spanish Speakers I
1 Credit

Spanish II or Spanish for Spanish Speakers II
1 Credit

Spanish III
1 Credit

OR

Spanish III PAP
1 Credit

Spanish IV AP
1 Credit

Spanish V AP
1 Credit

French I
1 Credit

French II
1 Credit

French III
1 Credit

French III PAP
1 Credit

French IV AP
1 Credit

French IV AP
1 Credit

Chinese I
1 Credit

Chinese II
1 Credit

Chinese III PAP
1 Credit

Chinese IV AP
1 Credit

Chinese V AP
1 Credit

ASL I
1 Credit

ASL II
1 Credit

Advanced ASL III
1 Credit

Advanced ASL IV
1 Credit

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Arts & Humanities Endorsement
2 Credits each in 2 different Language Sequences
2019-2020

- Spanish I or Spanish for Spanish Speakers I
  1 Credit

- Spanish II or Spanish for Spanish Speakers II
  1 Credit

- French I
  1 Credit

- French II
  1 Credit

- Chinese I
  1 Credit

- Chinese II
  1 Credit

- ASL I
  1 Credit

- ASL II
  1 Credit
Arts & Humanities Endorsement: Social Studies

5 credits in Social Studies

2019-2020

World Geography 1 Credit

OR

World Geography PAP 1 Credit

OR

Human Geography AP 1 Credit

OR

World History 1 Credit

OR

World History PAP 1 Credit

World History AP 1 Credit

Additional Social Studies Courses

Psychology .5 Credit

Psychology PAP .5 Credit

Psychology -Dual .5 Credit

Psychology AP .5 Credit

Sociology .5 Credit

Personal Financial Literacy .5 Credit

European History AP 1 Credit

U.S. History 1 Credit

U.S. History Dual 1 Credit

U.S. History AP 1 Credit

Government .5 Credit

Government AP .5 Credit

Government Dual .5 Credit

Economics .5 Credit

Economics AP .5 Credit

Economics Dual .5 Credit

Academic
Advanced/PAP/Dual
AP
Certification
Articulated Credit

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Arts & Humanities Endorsement: English
7 credits in English 2019-2020

English I
AND
English II
AND
English III

AND

(1) Advanced English credit from one of the following Advanced Courses:
English IV, Creative Writing, Humanities, Literary Genres, Research & Technical Writing, Debate III,
Oral Interpretation III, IS Speech, IS Journalism, Advanced Journalism III, Newspaper III, Yearbook III, AP English Literature &
Composition, Dual Credit English, College Prep English

AND

(3) Additional Credits from any of the following, not taken previously

English IV 1 Credit
Humanities 1 Credit
Literary Genres 1 Credit
English Literature AP 1 Credit
Creative Writing 1 Credit
Research & Technical Writing 1 Credit
College Preparatory English 1 Credit
English IV Dual 1 Credit
Business/Industry Endorsement: English
(4) English elective credits
2019-2020

(1) Advanced English credit from one of the following Advanced Courses:
English IV, Creative Writing, Humanities, Literary Genres, Research & Technical Writing, Debate III,
Oral Interpretation III, IS Speech, IS Journalism, Advanced Journalism III, Newspaper III, Yearbook III, AP English Literature &
Composition, Dual Credit English, College Prep English

Three (3) levels in one of the following:

- Journalism
  - 1 Credit
- Advanced Broadcast: Journalism I
  - 1 Credit
- Advanced Broadcast: Journalism II
  - 1 Credit
- Advanced Broadcast: Journalism III
  - 1 Credit
- Journalism
  - 1 Credit
- Advanced Journalism: Newspaper I
  - 1 Credit
- Advanced Journalism: Newspaper II
  - 1 Credit
- Advanced Journalism: Newspaper III
  - 1 Credit
- Advanced Journalism: Yearbook I
  - 1 Credit
- Advanced Journalism: Yearbook II
  - 1 Credit
- Advanced Journalism: Yearbook III
  - 1 Credit
- Debate I
  - 1 Credit
- Debate II
  - 1 Credit
- Debate III
  - 1 Credit
- Independent Study in Speech (Debate IV)
  - 1 Credit

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Business/Industry Endorsement
Agriculture, Food, & Natural Resources: Animal Science
2019-2020

8th – 12th
- Principles of Agriculture, Food & Natural Resources
  1 Credit

  AND

  - Small Animal Management
    .5 Credit
  - Equine Science
    .5 Credit

  AND

  - Veterinary Medical Applications
    1 Credit

  OR

  - Advanced Animal Science
    1 Credit
  - Practicum in Agriculture Food & Natural Resources
    (Veterinary Medical Applications)
    2 Credits
  - Extended Practicum
    3 credits
  - Veterinary Assistant Certification

9th – 12th
- Principles of Agriculture, Food & Natural Resources
  1 Credit

  AND

  - Small Animal Management
    .5 Credit
  - Equine Science
    .5 Credit

  AND

  - Veterinary Medical Applications
    1 Credit

  OR

  - Advanced Animal Science
    1 Credit
  - Practicum in Agriculture Food & Natural Resources
    (Veterinary Medical Applications)
    2 Credits
  - Extended Practicum
    3 credits
  - Veterinary Assistant Certification

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Business/Industry Endorsement
Agriculture, Food, & Natural Resources: Horticulture
2019-2020

8th – 12th
- Principles of Agriculture, Food & Natural Resources
  1 Credit
- Floral Design
  1 Credit
  Texas State Floral Association Certification
- Horticultural Science
  1 Credit
- Landscape Design & Management
  0.5 Credit
- AND
- Turf Grass Management
  0.5 Credit
- AND/OR
- Advanced Plant & Soil Science
  1 Credit
  Wastewater Collections and Water Operators Certification

9th – 12th
- Principles of Agriculture, Food & Natural Resources
  1 Credit
- Floral Design
  1 Credit
  Texas State Floral Association Certification
- Horticultural Science
  1 Credit
- Landscape Design & Management
  0.5 Credit
- AND
- Turf Grass Management
  0.5 Credit
- AND/OR
- Advanced Plant & Soil Science
  1 Credit
  Wastewater Collections and Water Operators Certification
Business/Industry Endorsement
Agriculture, Food, & Natural Resources: Process Technology*
2019-2020

**Principles of Technology required**

**8th – 12th**
- Principles of Agriculture, Food & Natural Resources
  - 1 Credit

- Agricultural Mechanics & Metal Technologies
  - 1 Credit

- Agricultural Structures & Design Fabrication
  - 1 Credit

- Welding I
  - 2 Credits
  - AWS Certification

- Welding II
  - 2 Credits
  - AWS Certification

- Introduction to Process Technology-Dual (WCJC)
  - (*) Principles of Technology required
  - 1 credit (Fall)

**9th – 12th**
- Principles of Agriculture, Food & Natural Resources
  - 1 Credit

- Agricultural Mechanics & Metal Technologies
  - 1 Credit

- Welding I
  - 2 Credits
  - AWS Certification

- Petrochemical Safety, Health & Environment-Dual (WCJC)
  - 1 Credit (Spring)

* Principles of Technology required for Process Technology Pathway

Transportation provided to and from WCJC during the school day.
Business/Industry Endorsement
Manufacturing: Machining Technology
2019-2020

- Principles of Agriculture, Food & Natural Resources
  1 Credit

- Agriculture Mechanics & Metal Technologies
  1 Credit

- Precision Metal Manufacturing I
  Dual (TSTC)
  2 Credits

- Precision Metal Manufacturing II
  Dual (TSTC)
  2 Credits

Transportation provided to and from TSTC during the school day.
## Business/Industry Endorsement
### Manufacturing: Machining Technology

**Industry Certification Course Sequence 2019-2020**

<table>
<thead>
<tr>
<th>9th Grade</th>
<th>SM1</th>
<th>SM2</th>
<th>11th Grade</th>
<th>SM1</th>
<th>SM2</th>
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<td>Chem/Phys/IPC</td>
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</tbody>
</table>

| Transportation provided to and from TSTC during the school day. |

| Agriculture Mechanic & Metal Technologies | ✓ | ✓ | Precision Metal Manufacturing II 7186AD | ✓ | ✓ |

### Notes
- Academic
- Advanced/PAP/Dual
- AP
- Certification
- Articulated Credit
Business/Industry Endorsement
Manufacturing: Welding
2019-2020

8th – 12th

Principles of Agriculture, Food & Natural Resources
1 Credit

Agricultural Mechanics & Metal Technologies
1 Credit

Agricultural Structures Design & Fabrication
1 Credit

Welding I
2 Credits
AWS Certification

OR

Welding II
2 Credits
Dual (TSTC)

9th – 12th

Principles of Agriculture, Food & Natural Resources
1 Credit

Agricultural Mechanics & Metal Technologies
1 Credit

Welding I
2 Credits
AWS Certification

OR

Welding II
2 Credits
Dual (TSTC)

OR

Welding II
2 Credits
Dual (TSTC)

Additional Elective Courses

Agribusiness Management & Marketing
1 Credit

For students taking Agriculture, Food & Natural Resources in 8th grade, complete
Agricultural Mechanics & Metal Technologies
1 Credit
in 9th grade and
Agricultural Structures Design & Fabrication
1 Credit
in 10th grade

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## Business/Industry Endorsement
### Manufacturing: Welding

**Industry Certification Course Sequence 2019-2020**

### 9th Grade

**Requirements**
- English I
- Algebra
- Bio
- Wld. Geo/ or Wld. History
- PE

**SM1**
- Welding I Dual 7181AD

**SM2**
- Welding I Dual 7181BD

### 11th Grade

**Requirements**
- English III
- Algebra II
- 3rd Science
- Government/Eco
- Elective

**SM1**
- Welding I Dual 7181AD

**SM2**
- Welding I Dual 7181BD

### 10th Grade

**Requirements**
- English II
- Geometry
- Chem/Phys/IPC
- US History
- Fine Art
- LOTE YR 1

**SM1**
- Welding II Dual 7183AD

**SM2**
- Welding II Dual 7183BD

### 12th Grade

**Requirements**
- English IV
- 4th Math
- 4th Science
- Elective
- Elective

**SM1**
- Welding II Dual 7183AD

**SM2**
- Welding II Dual 7183BD

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**For students taking Agriculture, Food & Natural Resources in 8th grade, complete Agricultural Mechanics & Metal Technologies 1 Credit**

In 9th grade and Agricultural Structures Design & Fabrication 1 Credit

In 10th grade

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**Additional Elective Courses**

**9th Grade**

- LOTE YR 1
- Principles of Agriculture, Food & Natural Resources

**10th Grade**

- LOTE YR 2

**11th Grade**

- Welding I Dual 7181AD

**12th Grade**

- Welding II Dual 7183AD

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Transportation provided to and from TSTC during the school day.
Business/Industry Endorsement:
Architecture & Construction: Construction
2019-2020

- Principles of Construction 1 Credit
- Principles of Architecture 1 Credit
  OR

- Construction Technology I 2 Credits
  - OSHA Certification
  - NCCER Certification

- Construction Technology II 2 Credits
  - NCCER Certification

- Practicum in Construction Technology 2 Credits
  - Extended Practicum 3 credits
  - NCCER Certification

Additional Elective Courses
- Interior Design I 1 Credit
- Interior Design II 1 Credit
- Chief Architect Certification
- Practicum in Interior Design 2 Credits
- Chief Architect Certification

Academic
- Advanced/PAP/Dual
- AP

Certification
- NCCER Certification

Articulated Credit

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Business/Industry Endorsement:
Architecture & Construction: Heating, Ventilation & Construction (HVAC)
2019-2020

- Principles of Construction
  1 Credit

- Construction Technology I
  2 Credits

- Heating, Ventilation, Air Conditioning & Refrigeration Technology I-Dual
  TSTC
  1 Credit
  HVAC Technician Certification I

- Heating, Ventilation, Air Conditioning & Refrigeration Technology II-Dual
  TSTC
  2 Credits
  HVAC Technician Certification I

Transportation provided to and from TSTC during the school day.
### Business/Industry Endorsement

**Architecture & Construction: Heating, Ventilation & Construction (HVAC)**

#### Industry Certification Course Sequence 2019-2020

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<td><strong>Principles of Construction</strong></td>
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</tr>
</tbody>
</table>

Transportation provided to and from TSTC during the school day.
Business/Industry Endorsement: 
Arts, Audio/Video Technology & Communications 
2019-2020

Additional Elective Course
- Professional Communications .5 Credit

Principles of Arts, Audio/Video Technology & Communications 1 Credit

- Graphic Design & Illustration I 1 Credit
- Audio/Video Production I 1 Credit

- Graphic Design & Illustration II-Lab 2 Credits
- Audio/Video Production II-Lab 2 Credits

- Graphic Design & Illustration II-Lab Photoshop & Illustrator Certificate
- Premiere Pro Certification

- Practicum Graphic Design & Illustration 2 Credits
- Practicum in Audio/Video Production 2 Credits

- Extended Practicum 3 credits
- Extended Practicum 3 credits

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Business/Industry Endorsement
Business Management & Administration
2019-2020

8th – 12th

- Additional Elective Course
- Principles of Business, Marketing & Finance
  1 Credit
- Money Matters
  1 Credit
- Business Information Management I
  1 Credit
  MOS Certification
- Business Information Management II
  1 Credit
  MOS Certification
- Business Law
  1 Credit
  MOS Certification
- Practicum in Business Management
  2 Credits
  Extended Practicum
  3 Credits

9th – 12th

- Money Matters
  1 Credit
- Business Information Management I
  1 Credit
  MOS Certification
- Business Information Management II
  1 Credit
  MOS Certification
- Business Law
  1 Credit
- Practicum in Business Management
  2 Credits
  Extended Practicum
  3 Credits

OR

Academic
Advanced/PAP/Dual
AP
Certification
Articulated Credit

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Business/Industry Endorsement
Hospitality & Tourism: Culinary Arts
2019-2020

8th - 12th

- Principles of Hospitality & Tourism
  1 Credit

- Introduction to Culinary Arts
  1 Credit

- Culinary Arts
  2 Credits
  Food Handler Certification

- Advanced Culinary Arts
  2 Credits
  Food Handler Certification & ServSafe Manager Certification

- Practicum in Culinary Arts
  2 Credits
  Extended Practicum
  3 Credits
  ServSafe Manager Certification

9th - 12th

- Introduction to Culinary Arts
  1 Credit

- Culinary Arts
  2 Credits
  Food Handler Certification

- Advanced Culinary Arts
  2 Credits
  Food Handler Certification & ServSafe Manager Certification

Additional Elective Course
Food Science
1 Credit

Academic
Advanced/PAP/Dual
AP
Certification
Articulated Credit
Business/Industry Endorsement:
Information Technology: Computer Technology
2019-2020

Additional Elective Course
Digital Media
1 Credit
Adobe Photoshop Certification

Principles of Information Technology
1 Credit

Computer Maintenance Lab
2 Credits
A+ Certification

Computer Technician Practicum
2 Credits
Extended Practicum
3 Credits
A+ Certification
Business/Industry Endorsement:
Information Technology: Cyber Security
2019-2020

- Principles of Information Technology
  1 Credit

- Computer Maintenance Lab
  2 Credits
  A+ Certification

- Computer Technician Practicum
  Dual TSTC
  2 Credits

AND

- Networking: Duall TSTC
  1 Credit (Fall)

- Computer Programming I
  Dual TSTC
  2 Credits
  (Spring)

Transportation provided to and from TSTC during the school day.
### Business/Industry Endorsement

**Information Technology: Cyber Security**

#### Industry Certification Course Sequence 2019-2020

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**Transportation provided to and from TSTC during the school day.**
Business/Industry Endorsement
Marketing 2019-2020

Additional Elective Course

Sports & Entertainment Marketing .5 Credit

Advertising .5 Credit

Entrepreneurship 1 Credit

Digital Media 1 Credit
Adobe Photoshop Certification

Advanced Marketing 2 Credits

Practicum in Marketing 2 Credits
Extended Practicum 3 Credits
Career Safe Certification

Academic
Advanced/PAP/Dual
AP
Certification
Articulated Credit

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Business/Industry Endorsement
Transportation, Distribution & Logistics:
Automotive Technology – Diesel DUAL
2019-2020

Energy & Power of Transportation Systems
1 Credit

Automotive Technology I:
Maintenance & Light Repair
2 Credits
ASE Certification

Automotive Technology II:
Automotive Service
Dual (TSTC) (onsite at LCHS)
2 Credits
ASE Certification

Automotive Technology II:
Automotive Service
2 Credits
ASE Certification

Diesel Equipment Technology I Dual
TSTC
2 Credits
ASE Certification

Diesel Equipment Technology II
Dual
TSTC
2 Credits
ASE Certification

Transportation provided to and from TSTC during the school day.

Academic
Advanced/PAP/Dual
AP
Certification
Articulated Credit
## Business/Industry Endorsement
### Transportation: Diesel Equipment Technology

#### Industry Certification Course Sequence 2019-2020

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<tr>
<th>Grade</th>
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<th>Grade</th>
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Business/Industry Endorsement
Transportation, Distribution & Logistics: Automotive Technology
2019-2020

- **Energy & Power of Transportation Systems**: 1 Credit
- **Automotive Technology I: Maintenance & Light Repair**: 2 Credits
  - ASE Certification
- **Automotive Technology II: Automotive Service**: 2 Credits
  - ASE Certification
- **Practicum in Transportation Systems**: 2 Credits
  - Extended Practicum: 3 Credits
  - ASE Certification
  - Automotive Certification

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A coherent sequence of (4) credits selected from the following:

CTE courses with final course from:
Agriculture, Food & Natural Resources; Architecture & Construction; Business Management & Administration; Arts, Audio/Video Technology & Communications; Finance; Hospitality & Tourism; Information Technology; Manufacturing; Marketing; Transportation, Distribution & Logistics

Business & Industry: English

Business & Industry: Technology Applications
Public Services Endorsement: Education & Training 2019-2020

Additional Elective Course

- Lifetime Nutrition & Wellness .5 Credit

Principles of Education & Training 1 Credit

Human Growth & Development 1 Credit

- Child Guidance 2 Credits
- Instructional Practices 2 Credits
- Practicum in Human Services 2 Credits
- Practicum in Education & Training 2 Credits

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Public Services Endorsement
Air Force Junior ROTC
2019-2020

AFJROTC I
1 Credit

AFJROTC II
1 Credit

AFJROTC III
1 Credit

AFJROTC IV
1 Credit
Public Service Endorsement
Health Science
2019-2020

Additional Elective Course
- Medical Microbiology
  1 Credit

Principles of Health Science
1 Credit

Medical Terminology
1 Credit

Health Science Theory
1 Credit
- CPR Certification

Health Science Clinical
2 Credits
- CPR & EKG Certification

Choose 4th “specialization” course; other than HS General, all “specialization” courses taught in a central location TBA

HS General
- Anatomy & Physiology
  1 Credit
- Practicum in HS: General
  2 Credits
  Extended Practicum
  3 Credits
  CMA Certification

Medical Billing & Coding
- Medical Billing & Coding
  1 Credit
- Medical Billing & Coding Specialists Certification

Pharmacy Technician
- Pharmacology
  1 Credit
- Pharmacy Technician Certification
- Board Exam

EMT
- Practicum in HS-Dual
  WCJC: EMSP 1501F & EMSP 1160Sp
  3 Credits
- EMT - Basic

Certified Nursing Assistant
- Practicum in HS: CNA
  2 Credits
  CNA Certification

- Pharmacology
  1 Credit
- Pharmacy Technician Certification
- Board Exam

- Practicum in HS-Dual
  WCJC-EMSP 1291
  3 Credits
  AEMT - Advanced

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Public Services Endorsement
Law Enforcement
2019-2020

Law Enforcement I
1 Credit

Law Enforcement II
1 Credit

Court Systems & Practices
1 Credit

Correctional Services
1 Credit
Basic Correctional Officer Certification
National Emergency Communications 911 Certification

Forensic Science
1 Credit

Practicum in Law, Public Safety, Correction & Security
2 Credits
Extended Practicum
3 Credits

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STEM Endorsement*
Computer Science
2019-2020

Computer Science Principles AP
1 Credit

Computer Science I
1 Credit

OR

Computer Science I PAP
1 Credit

OR

Computer Science A AP
2 Credits

OR

Advanced Computer Science II
1 Credit

IS: Technology Applications
1 Credit

*Algebra II, Chemistry & Physics required for all STEM Endorsements
STEM Endorsement*
Mathematics
2019-2020

Additional Math Courses

- Pre-Calculus 1 Credit
- AQR 1 Credit
- Statistics & Business Decision Making 1 Credit
- Digital Electronics 1 Credit
- Pre-Calculus PAP/Dual 1 Credit
- Independent Study Math Dual 1 Credit

College Preparatory Math 1 Credit

- Algebra I 1 Credit
- College Preparatory Math 1 Credit
- Calculus AB AP 1 Credit
- Calculus BC AP 1 Credit
- Statistics AP 1 Credit
- Computer Science A AP 1 Credit
- ONRAMPS Pre-Calculus 1 Credit
- ONRAMPS Statistics 1 Credit

OR

- Algebra I PAP 1 Credit
- Geometry 1 Credit
- Algebra II 1 Credit
- Geometry PAP 1 Credit
- Algebra II PAP 1 Credit

AND

- Any Two Additional Math Courses 1 Credit each

*Algebra II, Chemistry & Physics required for all STEM Endorsements

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LAMAR
CISD
A PROUD TRADITION | A BRIGHT FUTURE
**STEM Endorsement**

**Science**

2019-2020

- **Biology** 1 Credit
  - OR: **Biology PAP** 1 Credit
- **Chemistry** 1 Credit
  - OR: **Chemistry PAP** 1 Credit
- **Physics** 1 Credit
  - OR: **Physics PAP** 1 Credit

**Additional Science Courses**

- **Advanced Animal Science** 1 Credit
- **Astronomy** 1 Credit
- **Aquatic Science** 1 Credit
- **Earth & Space Science** 1 Credit
- **Food Science** 1 Credit
- **Medical Microbiology** 1 Credit
- **Anatomy & Physiology** 1 Credit
- **Aquatic Science** 1 Credit

- **Engineering Design & Problem Solving** 1 Credit
- **Forensic Science** 1 Credit
- **Physics II Dual** 1 Credit
- **Advanced Plant & Soil Science** 1 Credit
- **Chemistry II AP** 1 Credit
- **Environmental Sci. AP** 1 Credit
- **Physics C AP** 1 Credit
- **Biology II AP** 1 Credit

**Any Two Additional Science Courses**

1 Credit each

---

*Algebra II, Chemistry & Physics required for all STEM Endorsements*
STEM Endorsement *
PLTW: Engineering

8th - 12th Grade

Principles of Applied Engineering
1 Credit

Introduction to Engineering Design
1 Credit

Engineering Specialization Courses
1 Credit
• Aerospace Engineering-LCHS, THS
• Civil Engineering & Architecture-THS, LCHS, GRHS
• Computer Integrated Manufacturing-FHS, CFHS

• Environmental Sustainability GRHS, FHS, CFHS

OR

Digital Electronics
1 Credit

Engineering Science
1 Credit

Engineering Design & Problem Solving - PLTW
1 Credit

9th - 12th Grade

Introduction to Engineering Design
1 Credit

Engineering Specialization Courses
1 Credit
• Aerospace Engineering-LCHS, THS
• Civil Engineering & Architecture-THS, LCHS, GRHS
• Computer Integrated Manufacturing-FHS, CFHS

• Environmental Sustainability GRHS, FHS, CFHS

OR

Digital Electronics
1 Credit

Engineering Science
1 Credit

Engineering Design & Problem Solving - PLTW
1 Credit

*Algebra II, Chemistry & Physics required for all STEM Endorsements

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STEM Endorsement*
Combination

In addition to Algebra II, Chemistry and Physics a coherent sequence of three additional credits from no more than two of the following categories:

- STEM Endorsement - PLTW
- STEM Endorsement - Mathematics
- STEM Endorsement - Science
- STEM Endorsement - Computer Science

*Algebra II, Chemistry & Physics required for all STEM Endorsements
Multidisciplinary Studies Endorsement

A student may earn a Multidisciplinary Studies endorsement by completing the foundation and one of the following general endorsement requirements:

- Four credits in each of the 4 foundation subject areas to include English IV and Chemistry and/or Physics
- Four advanced courses that prepare students to enter workforce or postsecondary education without remediation from within 1 endorsement area or among endorsement areas that are not in a coherent sequence
- Four credits in AP or dual credit selected from English, math, science, social studies, economics, LOTE or fine arts