

**AISD CTE Curriculum Guide 2021-22**

**CAREER TECHNOLOGY EDUCATION- CTE**

6th Gr College & Careers Readiness	NA
7 <sup>th</sup> / 8 <sup>th</sup> Gr Investigating Careers Intro Robotics (1 <sup>st</sup> time)	NA
8 <sup>th</sup> Gr Investigating Careers Robotics (2 <sup>nd</sup> time)	NA
8th Gr College & Careers Readiness	NA
8 <sup>th</sup> Gr Business Information Management	1 credit

*Project Lead Way Gateway .5 annually 7<sup>th</sup> grade .5 credit – 8<sup>th</sup> grade .5 credit*

**\*ALL CTE COURSES IN YEAR 3 & 4 COUNT AS AN ADVANCED CTE COURSE FOR ENDORSEMENTS\***

**ENDORSEMENT – SCIENCE TECHNOLOGY ENGINEERING MATH  
PROGRAM OF STUDY – ENGINEERING AND COMPUTER SCIENCE**

**ENGINEERING**

(8 <sup>th</sup> Gr) Business Information Management	1 credit
(Year 1) Principles of Applied Engineering	1 credit
<i>(Year 2) Manufacturing Engineering Tech I PLTW</i>	<i>1 credit</i>
(Year 2) Engineering Design Presentation I	1 credit
(Year 3) Engineering Design Presentation II	2 credits
(Year 4) Engineering Design Problem Solving	1 credit

**REFINING & CHEMICAL PROCESS**

(8 <sup>th</sup> Gr) Business Information Management	1 credit
(Year 1) Principles of Applied Engineering	1 credit
<i>(Year 2) Introduction to Process Tech Dual</i>	<i>1 credit</i>
<i>(Year 3) Petrochemical Safety, Health &amp; Env Dual</i>	<i>1 credit</i>
<i>(Year 4) Project Based Research (Engineering Des &amp; Pro)</i>	<i>1 credit</i>

**PROGRAMMING & SOFTWARE DEVELOPMENT**

(8 <sup>th</sup> Gr) Business Information Management	1 credit
(Year 1) Fundamentals of Computer Science	1 credit
(Year 2) Computer Science I	1 credit
(Year 2) AP Computer Science Principles	1 credit
(Year 3) Computer Science II	1 credit
(Year 3) AP Computer Science A	1 credit
(Year 4) Practicum in Information Technology or	2 credits
(Year 4) Career Prep I	3 credits

**RENEWABLE ENERGY**

(8 <sup>th</sup> Gr) Business Information Management	1 credit
(Year 1) Principles of Applied Engineering	1 credit
<i>(Year 2) AC/DC Electronics Dual</i>	<i>1 credit</i>
<i>(Year 3) Solid State Electronics Dual</i>	<i>1 credit</i>
<i>(Year 4) Digital Electronics Dual</i>	<i>1 credit</i>
<i>(Year 4) Engineering Design &amp; Probl Solving</i>	<i>1 credit</i>

**ENDORSEMENT – BUSINESS & INDUSTRY  
PROGRAM OF STUDY – AGRICULTURE**

**ANIMAL SCIENCE**

(8 <sup>th</sup> Gr) Business Information Management	1 credit
(Year 1) Principles of Agri, Food, and Nat Resources	1 credit
(Year 2) Small Animal Management	.5 credit
(Year 2) Equine Science	.5 credit
(Year 3) Livestock Production	1 credit
(Year 3) Advance Animal Science	1 credit
(Year 4) VET Med Application/Lab	2 credits
(Year 4) Practicum in Agri Science	2 credits

**PLANT SCIENCE**

(8 <sup>th</sup> Gr) Business Information Management	1 credit
(Year 1) Principles of Agri, Food, and Nat Resources	1 credit
(Year 2) Landscape Design and Management	.5 credit
(Year 3) Floral Design	1 credit
(Year 3) Horticultural Science/Lab	2 credits
(Year 4) Practicum of Agri Science (Adv Floral Design)	2 credits

**ENDORSEMENT – BUSINESS & INDUSTRY**

**PROGRAM OF STUDY – ARTS, A/V TECHNOLOGY, AND COMMUNICATION**

**DIGITAL COMMUNICATIONS**

(8 <sup>th</sup> Gr) Business Information Management	1 credit
(Year 1) Prin, Audio, Video, Tech & Communications	1 credit
(Year 2) Audio/Video Production I	1 credit
(Year 3) Audio/Video Production II/Lab	2 credits
(Year 4) Practicum in Audio Video Production	2 credits

**ENVIRONMENTAL & NATURAL RESOURCES**

(8 <sup>th</sup> Gr) Business Information Management	1 credit
(Year 1) Principles of Agri, Food & Nat Res	1 credit
(Year 2) Wildlife, Fisheries, & Ecol Mgt.	1 credit
(Year 3) Range Eco & Mgt.	1 credit
(Year 4) Practicum of Agi Science	2 credits

**APPLIED AGRICULTURE ENGINEERING**

(8 <sup>th</sup> Gr) Business Information Management	1 credit
(Year 1) Principles of Agri, Food & Nat Res	1 credit
(Year 2) Agriculture Mechanic and Metal Technology	1 credit
(Year 3) Agriculture Structures Design and Fab/Lab	2 credits
(Year 4) Practicum in Agriculture Science	2 credits

**DESIGN & MULTIMEDIA-GRAPHICS**

(8 <sup>th</sup> Gr) Business Information Management	1 credit
(Year 1) Prin Audio Video Tech & Communication	1 credit
(Year 2) Graphic Design and Illustration I	1 credit
(Year 2) Commercial Photography I	1 credit
(Year 3) Graphic Design & Illustration II/Lab	2 credits
(Year 4) Practicum in Graphic Design or	2 credits

(Year 4) Career Prep I 3 credits

**DESIGN & MULTI MEDIA-ANIMATION**

(8<sup>th</sup> Gr) Business Information Management 1 credit  
(Year 1) Prin, Audio, Video, Tech & Communications 1 credit  
(Year 2) Animation I 1 credit  
(Year 2) Commercial Photography I 1 credit  
(Year 3) Animation II & Lab 2 credits  
(Year 4) Practicum in Animation or 2 credits  
(Year 4) Career Prep I 3 credits

**DESIGN & MULTI MEDIA-VIDEO GAMING**

(8<sup>th</sup> Gr) Bus Information Management 1 credit  
(Year 1) Prin Audio, Video, Tech & Communications 1 credit  
(Year 1) Video Game Design 1 credit  
(Year 2) Commercial Photography I 1 credit  
(Year 2) Video Gaming Programming 1 credit  
(Year 3) Adv Video Gaming Programing 2 credits  
(Year 4) Career Prep I 3 credits

**ENDORSEMENT – BUSINESS & INDUSTRY  
PROGRAM OF STUDY – BUSINESS & FINANCE**

**BUSINESS MANAGEMENT**

(8<sup>th</sup> Gr) Business Information Management 1 credit  
(Year 1) Principles of Business, Marketing & Finance I 1 credit  
(Year 1) Business Information Management I 1 credit  
(Year 2) Business Information Management II 1 credit  
(Year 2) Business Law 1 credit  
(Year 3) Business Management 1 credit  
(Year 4) Practicum in Business Management or 2 credits  
(Year 4) Career Prep I 3 credits

**ACCOUNTING & FINANCIAL SERVICES**

(8<sup>th</sup> Gr) Business Information Management 1 credit  
(Year 1) Prin of Business, Marketing & Finance I 1 credit  
(Year 1) Business Information Management I 1 credit  
(Year 1) Money Matters 1 credit  
(Year 2) Accounting I 1 credit  
(Year 3) Accounting II 1 credit  
(Year 4) Practicum in Business Management or 2 credits  
(Year 4) Career Prep I 3 credits

**MARKETING & SALES**

(8<sup>th</sup> Gr) Business Information Management 1 credit  
(Year 1) Principles of Business, Marketing & Finance I 1 credit  
(Year 2) Sports Entertainment Marketing .5 credit  
(Year 2) Social Media Marketing .5 credit  
(Year 2) Virtual Business .5 credit  
(Year 3) Fundamentals of Real Estate 2 credits  
(Year 3) Retail Management 1 credit  
(Year 4) Practicum of Marketing or 2 credits  
(Year 4) Career Prep I 3 credits

ENDORSEMENT– BUSINESS & INDUSTRY  
PROGRAM OF STUDY- HOSPITALITY AND TOURISM

**CULINARY ARTS**

(8 <sup>th</sup> Gr) Business Information Management I	1 credit
(Year 1) Introduction to Culinary Arts ( <i>Prin of Hosp</i> )	1 credit
(Year 2) Culinary Arts	2 credits
(Year 3) Advanced Culinary Arts	2 credits
(Year 4) Practicum of Culinary Arts <b>or</b>	2 credits
(Year 4) Career Prep I	3 credits

**LODGING & RESORT MANAGEMENT**

(8 <sup>th</sup> Gr) Business Information Management I	1 credit
(Year 1) Principles of Hospitality and Tourism	1 credit
(Year 2) Hotel Management	1 credit
(Year 2) Travel & Tourism Management	1 credit
(Year 3) Hospitality Services	2 credits
(Year 4) Practicum of Hospitality Services or	2 credits
(Year 4) Career Prep I	3 credits

**HOSPITALITY & TOURISM**

(8 <sup>th</sup> Gr) Business Information Management I	1 credit
(Year 1) Principles of Hospitality and Tourism	1 credit
(Year 2) Travel & Tourism Management	1 credit
(Year 3) Entrepreneurship	1 credit
(Year 4) Practicum of Hospitality Services or	2 credit
(Year 4) Career Prep I	3 credits

ENDORSEMENT – BUSINESS & INDUSTRY  
PROGRAM OF STUDY – MANUFACTURING

**WELDING**

(8 <sup>th</sup> Gr) Business Information Management I	1 credit
(Year 1) Intro to Welding	1 credit
(Year 2) Welding I	2 credits
(Year 3) Welding II	2 credits
(Year 4) Practicum in Manufacturing or	2 credits
(Year 4) Career Prep I	3 credits

**ADVANCED MANUFACTURING & MACHINE MECHANICS**

(8 <sup>th</sup> Gr) Business Information Management I	1 credit
(Year 1) Principles of Manufacturing or	1 credit
(Year 1) Principles of Applied Engineering	1 credit
(Year 2) Robotics I	1 credit
(Year 2) Manufacturing Engineering Tech I Reg or Dual	1 credit
(Year 2) <i>Engineering Design Presentation I</i>	1 credit
(Year 3) Robotics II	1 credit
(Year 3) Manufacturing Engineering Tech II	2 credit
(Year 4) Practicum in Manufacturing or	2 credits
(Year 4) Career Prep I	3 credits

**MANUFACTURING TECHNOLOGY**

(8 <sup>th</sup> Gr) Business Information Management I	1 credit
(Year 1) Principles of Manufacturing or	1 credit
(Year 1) Principles of Applied Engineering	1 credit
(Year 2) Precision Metal Manufacturing I Dual	2 credits
(Year 3) Precision Metal Manufacturing II Dual	2 credits
(Year 4) Practicum of Manufacturing	2 credits

ENDORSEMENT – BUSINESS & INDUSTRY -  
 PROGRAM OF STUDY – ARCHITECTURE SCIENCE, HVAC, ELECTRICAL, PLUMBING, PIPEFITTING, &  
 AUTOMOTIVE

**ARCHITECTURE DESIGN**

(8 <sup>th</sup> Gr) Business Information Management I	1 credit
(Year 1) Interior Design	1 credit
(Year 2) Architectural Design I Dual	1 credit
(Year 3) Architecture Design II Dual	2 credits
(Year 4) Career Prep I	3 credits

**HEATING, AIR CONDITIONING, & REFR TECH I (HVAC)**

(8 <sup>th</sup> Gr) Business Information Management I	1 credit
(Year 1) <i>Principles of Construction</i>	1 credit
(Year 2) <i>HVAC Refrigeration &amp; Tech I Dual</i>	1 credit
(Year 3) <i>HVAC II Refrigeration &amp; Tech II Dual</i>	2 credits
(Year 4) <i>Practicum in Construction Tech</i>	2 credits
(Year 4) Career Prep I	3 credits

**PIPEFITTING**

(8 <sup>th</sup> Gr) Business Information Management I	1 credit
(Year 1) Introduction to Welding or	1 credit
(Year 1) Principles of Construction	1 credit
(Year 2) <i>Pipefitting Tech I Dual</i>	1 credit
(Year 3) <i>Pipefitting Tech II Dual</i>	2 credits
(Year 4) <i>Practicum in Construction Tech Career Prep I</i>	3 credits

**ELECTRICAL**

(8 <sup>th</sup> Gr) Business Information Management I	1 credit
(Year 1) <i>Principles of Construction</i>	1 credit
(Year 2) <i>Electrical Technology I Dual</i>	1 credit
(Year 3) <i>Electrical Technology II Dual</i>	2 credits
(Year 4) <i>Practicum in Construction Tech Dual</i>	2 credits
(Year 4) Career Prep I	3 credits

**PLUMBING**

(8 <sup>th</sup> Gr) Business Information Management I	1 credit
(Year 1) Introduction to Welding or	1 credit
(Year 1) Principles of Construction	1 credit
(Year 2) Plumbing Technology I Dual	1 credit
(Year 3) Plumbing Technology II Dual	2 credits
(Year 4) Pract in Construction Tech or Career Prep I	3 credits

**CARPENTRY**

(8 <sup>th</sup> Gr) Business Information Management I	1 credit
(Year 1) <i>Principles of Construction</i>	1 credit
(Year 2) <i>Construction Technology I</i>	2 credits
(Year 3) <i>Construction Technology II</i>	2 credits
(Year 3) <i>Mill &amp; Cabinet Making Tech</i>	2 credits
(Year 4) <i>Career Practicum</i>	3 credits

ENDORSEMENTS – BUSINESS & INDUSTRY  
 PROGRAM OF STUDY – TRANSPORTATION DISTRIBUTION & LOGISTICS

**Automotive**

(8 <sup>th</sup> Gr) Business Information Management I	1 credit
(Year 2) Learning Frameworks	1 credit
(Year 3) Automotive Technology I Dual	2 credits
(Year 4) Automotive Technology II Dual	2 credits

ENDORSEMENT– PUBLIC SERVICE  
 PROGRAM OF STUDY- EDUCATION & TRAINING

**TEACHING AND TRAINING**

(8 <sup>th</sup> Gr) Business Information Management I	1 credit
(Year 1) Principles of Education & Training or	1 credit
(Year 1) Principles of Human Services	1 credit
(Year 2) Human Growth & Development	1 credit
(Year 3) Instructional Practices (Ready Set Teach)	2 credits
(Year 4) Practicum in Education and Training or	2 credits
(Year 4) Career Prep I	3 credits

**EARLY LEARNING**

(8 <sup>th</sup> Gr) Business Information Management I	1 credit
(Year 1) Principles of Education & Training or	1 credit
(Year 1) Principles of Human Services	1 credit
(Year 2) Child Development	1 credit
(Year 3) Child Guidance	2 credits
(Year 4) Career Prep	3 credits

ENDORSEMENT– PUBLIC SERVICE  
 PROGRAM OF STUDY- HUMAN SERVICES

**COSMETOLOGY**

(8 <sup>th</sup> Gr) Business Information Management I	1 credit
(Year 1) Prin of Cosmetology Design & Color Theory	1 credit
(Year 1) Microbiology & Safety for Cosmetology Careers	1 credit
(Year 2) Introduction to Cosmetology	1 credit

<i>(Year 2) Nail Care, Enhancements and Spa Services</i>	<i>2 credits</i>
<i>(Year 2) Esthetics</i>	<i>2 credits</i>
<i>(Year 3) Cosmetology I/Lab</i>	<i>2 credits</i>
<i>(Year 3) Barbering I</i>	<i>3 credits</i>
<i>(Year 4) Cosmetology II/Lab</i>	<i>2 credits</i>
<i>(Year 4) Barbering II</i>	<i>3 credits</i>

**HEALTHCARE DIAGNOSTICS**

<i>(8<sup>th</sup> Gr) Business Information Management I</i>	<i>1 credit</i>
<i>(Year 1) Principles of Health Science</i>	<i>1 credit</i>
<i>(Year 2) Medical Terminology</i>	<i>1 credit</i>
<i>(Year 3) Health Science Theory &amp; Clinical</i>	<i>2 credits</i>
<i>(Year 4) Anatomy and Physiology</i>	<i>1 credit</i>
<i>(Year 4) Practicum of Health Science</i>	<i>2 credits</i>

**ENDORSEMENT– PUBLIC SERVICE**

**PROGRAM OF STUDY- LAW AND PUBLIC SERVICE**

**LAW ENFORCEMENT**

<i>(8<sup>th</sup> Gr) Business Information Management I</i>	<i>1 credit</i>
<i>(Year 1) Principle of Law, Public Safety, Corr &amp; Security</i>	<i>1 credit</i>
<i>(Year 2) Law Enforcement I</i>	<i>1 credit</i>
<i>(Year 3) Law Enforcement II</i>	<i>1 credit</i>
<i>(Year 4) Forensic Science</i>	<i>1 credit</i>
<i>(Year 4) Practicum in Law and Public Safety</i>	<i>2 credits</i>

Purple – Junior High Courses

**HEALTHCARE THERAPEUTIC**

<i>(8<sup>th</sup> Gr) Business Information Management I</i>	<i>1 credit</i>
<i>(Year 1) Principles of Health Science</i>	<i>1 credit</i>
<i>(Year 2) Medical Terminology</i>	<i>1 credit</i>
<i>(Year 3) Health Science Theory &amp; Clinical</i>	<i>2 credits</i>
<i>(Year 3) Anatomy &amp; Physiology</i>	<i>1 credit</i>
<i>(Year 4) Pharmacology 1 credit and/or Pract of HS</i>	<i>2 credits</i>

**LEGAL STUDIES**

<i>(8<sup>th</sup> Gr) Business Information Management I</i>	<i>1 credit</i>
<i>(Year 1) Princ of Law, Public Safety, Corr &amp; Security</i>	<i>1 credit</i>
<i>(Year 2) Business Law</i>	<i>1 credit</i>
<i>(Year 3) Court Systems and Practices</i>	<i>1 credit</i>
<i>(Year 4) Pract in Law, Public Safety, Security or</i>	<i>2 credits</i>
<i>(Year 4) Career Prep I</i>	<i>3 credits</i>