

AISD Career Technical Education Program of Study Guide 2022-23

CAREER TECHNOLOGY EDUCATION- CTE

6th Gr Intro to Robotics (local elective)	NA
6 th Gr Intro to Technology (local elective)	NA
7 th /8 th Gr Intro to Robotics II (local elective)	NA
8 th Gr Business Information Management	1 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 th Gr) Business Information Management	1 credit
(Year 1) Principles of Applied Engineering	1 credit
(Year 2) Computer Integrated Man PLTW (prerequisite Appl Eng)	1 credit
(Year 2) Engineering Design Presentation I (prerequisite Appl Eng)	1 credit
(Year 3) Engineering Design Presentation II (prerequisite Eng I)	2 credits
(Year 4) Engineering Design Problem Solving (prerequisite Eng Des I)	1 credit
(Year 4) Practicum in STEM MSR Battery Race Cars	2 credits

NETWORKING SYSTEMS

(8 th Gr) Business Information Management	1 credit
(Year 1) Computer Science I	1 credit
(Year 2) AP Computer Science Principles (prerequisite F CS)	1 credit
(Year 2) Computer Maintenance/Lab (prerequisite Comp Sci I)	1 credit
(Year 3) Internetworking Technologies II/Lab (prerequisite Comp M)	1 credit
(Year 4) Career Prep	2 credits

PROGRAMMING & SOFTWARE DEVELOPMENT

(8 th Gr) Business Information Management	1 credit
(Year 1) Fundamentals of Computer Science	1 credit
(Year 2) Computer Science I (prerequisite Fund of CS)	1 credit
(Year 2) AP Computer Science Principles (prerequisite F CS)	1 credit
(Year 3) Computer Science II (prerequisite CS I)	1 credit
(Year 3) AP Computer Science A (prerequisite CS Prin)	1 credit
(Year 4) Career Prep I	3 credits

RENEWABLE ENERGY

(8 th Gr) Business Information Management	1 credit
(Year 1) Principles of Applied Engineering	1 credit
(Year 2) AC/DC Electronics Dual	1 credit
(Year 3) Solid State Electronics Dual	1 credit
(Year 4) Digital Electronics Dual	1 credit

ENDORSEMENT – ENERGY

PROGRAM OF STUDY – REFINING & CHEMICAL PROCESS – OIL & GAS EXPLORATION AND PRODUCTION

REFINING & CHEMICAL PROCESS

(8 th Gr) Business Information Management	1 credit
(Year 1) Principles of Applied Engineering	1 credit
(Year 2) <i>Introduction to Process Tech Dual</i>	1 credit
(Year 3) <i>Petrochemical Safety, Health & Env Dual</i>	1 credit

OIL & GAS EXPLORATION AND PRODUCTION

(8 th Gr) Business Information Management	1 credit
(Year 1) Principles of Applied Engineering	1 credit
(Year 2) <i>Oil & GAS Production I Dual</i> (prerequisite Pr of App Eng)	1 credit
(Year 3) <i>Oil & GAS Production II Dual</i> (prerequisite Oil & Gas)	1 credit

ENDORSEMENT – BUSINESS & INDUSTRY

PROGRAM OF STUDY – AGRICULTURE FOOD AND NATURAL RESOURCES

ANIMAL SCIENCE

(8 th 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 (prerequisite LP & Equine)	2 credits
(Year 4) Pract in Agri Science (prerequisite Prin of Agi Sci)	2 credits

ENVIRONMENTAL & NATURAL RESOURCES

(8 th 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) Pract of Agi Science (prerequisite Prin of Agi Sci)	2 credits

PLANT SCIENCE

(8 th 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	1 credit
(Year 4) Advance Floral Design (prerequisite Floral Design)	1 credit
(Year 4) Pract in Agi Science (prerequisite Prin of agi Sci & Equine)	2 credits

APPLIED AGRICULTURE ENGINEERING

(8 th Gr) Business Information Management	1 credit
(Year 1) Principles of Agri, Food & Nat Res	1 credit
(Year 2) Agriculture Mechanic and Metal Tech	1 credit
(Year 3) Agi Struct Des and Fab/Lab (prerequisite Agi Mech)	2 credits
(Year 4) Pract in Agriculture Science (prerequisite Prin of Agi Sci)	2 credits

ENDORSEMENT – BUSINESS & INDUSTRY

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

DIGITAL COMMUNICATIONS

(8 th Gr) Business Information Management	1 credit
(Year 1) Prin, Audio, Video, Tech & Communications	1 credit
(Year 2) Audio/Video Production I (prerequisite Prin of AV Prod)	1 credit
(Year 3) Audio/Video Prod II/Lab (prerequisite AV Prod I)	2 credits
(Year 4) Pract in Audio Video Prod (prerequisite AV Prod II)	2 credits

DESIGN & MULTIMEDIA-ANIMATION

(8 th Gr) Business Information Management	1 credit
(Year 1) Prin, Audio, Video, Tech & Communications	1 credit
(Year 2) Animation I (prerequisite Prin of AV Prod)	1 credit
(Year 2) Comm Photography I (prerequisite Prin of AV Prod)	1 credit
(Year 3) Animation II & Lab (prerequisite Animation I)	2 credits
(Year 4) Practicum in Animation or (prerequisite Animation II)	2 credits
(Year 4) Career Prep I (prerequisite Animation II)	3 credits

DESIGN & MULTIMEDIA-GRAPHICS

(8 th Gr) Business Information Management	1 credit
(Year 1) Prin Audio Video Tech & Communication	1 credit
(Year 2) Graphic Design and Illust I (pre Prin of AV Prod)	1 credit
(Year 2) Comm Photography I (prerequisite Prin of AV Prod)	1 credit
(Year 3) Graphic Design & Illust II/Lab (pre Graphic I)	2 credits
(Year 4) Pract in Graphic Design or (prerequisite Graphics II)	2 credits
(Year 4) Career Prep I (prerequisite Graphic II)	3 credits

DESIGN & MULTIMEDIA-VIDEO GAMING

(8 th Gr) Bus Information Management	1 credit
(Year 1) Prin Audio, Video, Tech & Communications	1 credit
(Year 1) Video Game Design (prerequisite Prin of AV Prod)	1 credit
(Year 2) Comm Photography I (prerequisite Prin of AV Prod)	1 credit
(Year 2) Video Gaming Program (prerequisite Video Game)	1 credit
(Year 3) Adv Video Gaming Prog (pre Adv Video Prog)	1 credit
(Year 4) Career Prep I (prerequisite Adv Video Game Prog)	3 credits

ENDORSEMENT – BUSINESS & INDUSTRY

PROGRAM OF STUDY – BUSINESS & FINANCE

BUSINESS MANAGEMENT

(8 th 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) Bus Information Management II (prerequisite BIM I)	1 credit
(Year 2) Business Law	1 credit
(Year 3) Business Management	1 credit
(Year 4) Pract in Bus Management or (pre Prin of Business)	2 credits
(Year 4) Career Prep I (prerequisite Prin of Business)	3 credits

ACCOUNTING & FINANCIAL SERVICES

(8 th 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 (prerequisite Prin of Business)	1 credit
(Year 3) Accounting II (prerequisite Accounting I)	1 credit
(Year 4) Pract in Bus Management or (pre Prin of Business)	2 credits
(Year 4) Career Prep I (prerequisite Prin of Business)	3 credits

MARKETING & SALES

(8 th 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 2) Entrepreneurship (prerequisite Prin of Business)	1 credit
(Year 3) Fundamentals of Real Estate (pre Prin of Business)	2 credits
(Year 3) Retail Management (prerequisite Prin of Business)	1 credit
(Year 4) Pract of Marketing or (prerequisite Prin of Business)	2 credits
(Year 4) Career Prep I (prerequisite Prin of Business)	3 credits

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

CULINARY ARTS

(8 th Gr) Business Information Management I	1 credit
(Year 1) Introduction to Culinary Arts	1 credit
(Year 2) Culinary Arts (prerequisite Intro to Culinary Arts)	2 credits
(Year 3) Advanced Culinary Arts (prerequisite Culinary Arts)	2 credits
(Year 4) Pract of Culinary Arts or (prerequisite Adv Culinary Arts)	2 credits
(Year 4) Career Prep I (prerequisite Adv Culinary Arts)	3 credits

LODGING & RESORT MANAGEMENT

(8 th Gr) Business Information Management I	1 credit
(Year 1) Principles of Hospitality and Tourism	1 credit
(Year 2) Hotel Management (prerequisite (Prin to Hosp or Intr Cul)	1 credit
(Year 2) Travel & Tourism Manage (pre Prin to Hosp or Hotel Mg)	1 credit
(Year 3) Hospitality Services (prerequisite Prin to Hosp or Intr Cul)	2 credits
(Year 4) Pract of Hosp Ser or (prerequisite Prin to Hosp or Intr Cul)	2 credits
(Year 4) Career Prep I	3 credits

TRAVEL TOURISM & ATTRACTION

(8 th Gr) Business Information Management I	1 credit
(Year 1) Principles of Hospitality and Tourism	1 credit
(Year 2) Travel & Tourism Manag (pre Prin to Hosp or Hotel Mg)	1 credit
(Year 3) Entrepreneurship (prerequisite of Bus Marketing and Fin or BIM I)	1 credit
(Year 4) Pract of Hospitality Services or (pre Hosp Ser or Hotel Mg)	2 credits
(Year 4) Career Prep I (pre Hosp Ser or Hotel Mg)	3 credits

ENDORSEMENT – BUSINESS & INDUSTRY PROGRAM OF STUDY – MANUFACTURING

WELDING

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

ADVANCED MANUFACTURING & MACHINE MECHANICS

(8 TH Gr) Business Information Management I	1 credit
(Year 1) Principles of Applied Engineering	1 credit
(Year 2) Robotics I (prerequisite Pri Appl Eng)	1 credit
(Year 2) Engineering Design Presentation I	1 credit
<i>(Year 3) Manufacturing Engineering Tech I Dual</i>	<i>1 credit</i>
(Year 3) Robotics II (prerequisite Robotics I)	1 credit
<i>(Year 3) Manufacturing Engineering Tech II Dual</i>	<i>1 credit</i>
(Year 4) Practicum in Manufacturing or prerequisite Welding II)	2 credits
(Year 4) Career Prep I (prerequisite Welding II)	3 credits

MANUFACTURING TECHNOLOGY

(8 th Gr) Business Information Management I	1 credit
(Year 1) Principles of Manufacturing or	1 credit
(Year 1) Principles of Applied Engineering	1 credit
<i>(Year 2) Precision Metal Manufacturing I Dual</i>	<i>2 credits</i>
<i>(Year 3) Precision Metal Manu II/ Dual (pre Prec Metal)</i>	<i>2 credits</i>
(Year 4) Practicum of Manufacturing (prerequisite Welding II)	2 crs

ENDORSEMENT – BUSINESS & INDUSTRY -

PROGRAM OF STUDY – ARCHITECTURE SCIENCE, HVAC, ELECTRICAL, PLUMBING, PIPEFITTING, & AUTOMOTIVE

ARCHITECTURE DESIGN

(8 th Gr) Business Information Management I	1 credit
(Year 2) Architectural Design I Dual	1 credit
(Year 3) Architectural Design I Dual (prerequisite Arch I)	1 credit
(Year 4) Architecture Design II Dual or (prerequisite Arch II)	2 credits
(Year 4) Career Prep I (prerequisite Arch II)	3 credits

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

(8 th Gr) Business Information Management I	1 credit
(Year 1) Principles of Construction	1 credit
(Year 2) HVAC Refrig & Tech I Dual (prerequisite Prin C I)	1 credit
(Year 3) HVAC II Refrig & Tech II Dual (prerequisite HVAC I)	2 credits
(Year 4) Pract in Construction Tech (prerequisite HVAC II)	2 credits
(Year 4) Career Prep I (prerequisite HVAC II)	3 credits

PIPEFITTING

(8 th Gr) Business Information Management I	1 credit
(Year 1) Introduction to Welding or	1 credit
(Year 1) Principles of Construction	1 credit
(Year 2) Pipefitting Tech I Dual (prerequisite Prin Const I)	1 credit
(Year 3) Pipefitting Tech II Dual (prerequisite Pipefitting I)	1 credit
(Year 4) Pract in Construction Tech or (prerequisite Pipefitting II)	2 credits
(Year 4) Career Prep I (prerequisite Pipefitting II)	3 credits

ELECTRICAL

(8 th Gr) Business Information Management I	1 credit
(Year 1) Principles of Construction	1 credit
(Year 2) Electrical Tech I Dual (prerequisite Prin of Constt)	1 credit
(Year 3) Electrical Tech II Dual (prerequisite Electr I)	2 credits
(Year 4) Pract in Construction Tech (prerequisite Elect II)	2 credits
(Year 4) Career Prep I (prerequisite Elect II)	3 credits

PLUMBING

(8 th 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 Tech I Dual (prerequisite Prin Const I)	1 credit
(Year 3) Plumbing Tech II Dual (prerequisite Plumbing I)	2 credits
(Year 4) Pract in Const Tech (prerequisite Plumbing II)	2 credits
(Year 4) Career Prep I (prerequisite Plumbing II)	3 credits

CARPENTRY

(8 th Gr) Business Information Management I	1 credit
(Year 1) Principles of Construction	1 credit
(Year 2) Construction Technology I (prerequisite Prin C I)	2 credits
(Year 3) Construction Technology II (prerequisite Const I)	2 credits
(Year 3) Mill & Cabinet Making Tech prerequisite Prin C I)	2 credits
(Year 4) Practicum in Construction Tech (pre Const II)	2 credits
(Year 4) Career Prep I (prerequisite Const II)	3 credits

ENDORSEMENTS – BUSINESS & INDUSTRY

PROGRAM OF STUDY – TRANSPORTATION DISTRIBUTION & LOGISTICS

Automotive

(8 th Gr) Business Information Management I	1 credit
(Year 2) Learning Frameworks Dual	1 credit
(Year 3) Automotive Technology I Dual	2 credits
(Year 4) Automotive Technology II/Lab Dual (pre Auto I)	2 credits

ENDORSEMENT– PUBLIC SERVICE

PROGRAM OF STUDY- EDUCATION & TRAINING

TEACHING AND TRAINING

(8 th 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 & Devel (prerequisite Prin of Edu or Hum)	1 credit
(Year 3) Instructional Practices (prerequisite Human Growth & Delv)	2 credits
(Year 4) Pract in Edu and Training or (prerequisite Instruct Pract)	2 credits
(Year 4) Career Prep I (prerequisite Instruct Pract)	3 credits

EARLY LEARNING

(8 th 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 (prerequisite Prin of Edu or Hum)	1 credit
(Year 3) Child Guidance (prerequisite Child Development)	2 credits
(Year 4) Career Prep I (prerequisite Child Development)	3 credits

ENDORSEMENT– PUBLIC SERVICE

PROGRAM OF STUDY- HUMAN SERVICES

COSMETOLOGY AND PERSONAL SERVICES

(8 th Gr) Business Information Management I	1 credit
(Year 1) Principles of Cosmetology/Barbering	1 credit
(Year 1) Principles of Business Cosmetology/Barbering	1 credit
(Year 2) Introduction to Cosmetology/Barbering	1 credit
(Year 2) Nail Care, Enhancements and Spa Services	2 credits
(Year 2) Esthetics	2 credits
(Year 3) Cosmetology I (prerequisite Prin to Cosm or Intro)	2 or 3 credits
(Year 3) Barbering I (prerequisite Prin to Cosm or Intro)	3 credits
(Year 4) Cosmetology II (prerequisite Cosmetology I)	2 or 3 credits
(Year 4) Barbering II (prerequisite Barber I)	3 credits

*Students who select Cosmetology or Barber Program of Study will have to purchase a cosmetology kit or a barber kit. The approximate cost of a kit is \$700.00. **Students will need the kit when they take Cosmetology I or Barber I.** Parents may want to set up a payment plan.*

HEALTHCARE THERAPEUTIC CNA & CPCT

(8 th Gr) Business Information Management I	1 credit
(Year 1) Principles of Health Science or	1 credit
(Year 2) Medical Terminology	1 credit
(Year 3) H S Theory CNA & CPCT (pre of HS & Med terms)	1 credit
(Year 4) Anatomy and Physiology	1 credit
(Year 4) Pract of Health Science CNA & CPCT (pre of HS)	2 credits

HEALTHCARE DIAGNOSTICS – EKG & CPCT

(8 th Gr) Business Information Management I	1 credit
(Year 1) Principles of Health Science or	1 credit
(Year 2) Medical Terminology	1 credit
(Year 3) H S Theory EKG – CPCT (pre of HS & Med terms)	1 credit
(Year 4) Anatomy and Physiology	1 credit
(Year 4) Pract of Health Science EKG – CPCT (pre of HS)	2 credits

HEALTHCARE THERAPEUTIC PHARMACY

(8 th Gr) Business Information Management I	1 credit
(Year 1) Principles of Health Science and/or	1 credit
(Year 1) Medical Terminology	1 credit
(Year 2) Anatomy & Physiology	1 credit
(Year 2) Pharmacology (prerequisite of HS & Med terms)	1 credit
(Year 3) Health Sci Theory Pharmacy (pre of HS & Med terms)	1 credit
(Year 4) Pract of Health Science Pharmacy (pre of HS)	2 credits

HEALTHCARE DIAGNOSTICS PHLEBOTOMY

(8 th Gr) Business Information Management I	1 credit
(Year 1) Principles of Health Science and/or	1 credit
(Year 1) Medical Terminology	1 credit
(Year 2) Anatomy & Physiology	1 credit
(Year 3) H Sci Theory Phlebotomy (pre of HS & Med terms)	1 credit
(Year 4) Pract of Health Science Phlebotomy (pre of HS)	2 credits

ENDORSEMENT– PUBLIC SERVICE

PROGRAM OF STUDY LAW AND PUBLIC SERVICE

LAW ENFORCEMENT

(8 th Gr) Business Information Management I	1 credit
(Year 1) Prin of Law, Public Safety, Corr & Security	1 credit
(Year 2) Law Enforcement I (prerequisite Prin of Law)	1 credit
(Year 3) Law Enforcement II (prerequisite Law I)	1 credit
(Year 3) Correctional Services	1 credit
(Year 4) Forensic Science (prerequisite Prin of Health Sci)	1 credit

LEGAL STUDIES

(8 th Gr) Business Information Management I	1 credit
(Year 1) Princ of Law, Public Safety, Corr & Security	1 credit
(Year 2) Business Law	1 credit
(Year 3) Court Systems and Practices (prerequisite Law II)	1 credit
(Year 4) Career Prep I	3 credits

Purple – Junior High Courses offered for high school credit

Italicized – Dual credit @ Brazosport College