April 20th, 2010

Question & Answers
Middle School Pilot

Presenter: Marty Thompson, CTE Director & Dean of the Advanced Technology Complex
Denton ISD

"Begin with the End in Mind"

- **Information on CTE options in the middle schools**
  - Traditional middle schools across the state offer academic courses and an array of electives in fine arts, band, athletics, PE & CTE
  - Student who need extra support in passing the TAKS are placed in a support class in place of elective
- **Denton ISD Middle School Pilot Update (Year 2 of 4)**
  - Teacher training to meet high school expectations
    - Additional certifications
    - Training with Career Counselors
    - Regional training
  - Purchase of advanced learning tools for high school credit courses and innovative course shared between gifted & talented and technology application (Alternative Energy, Robotics, Gaming Design, Web Design, 3 Dimensional Design/Modeling) Upcoming: Space & Aviation, Global Information Systems   "Focus on innovation, collaboration, critical thinking and problem solving
  - Creation of three start points for entering career cluster pathways
  - Developed high school credit options
  - Created a counseling placement notebook to assign in ARD meetings
  - Trained middle school counselors
  - Promotional/Marketing
    - Parent transition meetings
    - Video of students encouraging the importance of prep for high school success
    - Career Educational Models (6th grade through university degree)
    - Computer4Kids (5th grade) Community Outreach
    - Tours of the Advanced Technology Complex with emphasis on academic skills needed to enter
- **Performance Data**
  - 40% (1,400) of students have taken advanced of earning advanced high school credit during the past two years

- Innovative course that bridges between gifted/talented and technology resulted in a 2nd place win in robotics *"Focus on innovation, collaboration, critical thinking and problem solving"*
- Tours of the ATC have been a big influence not only on students, but middle school instructors, administrators and parents
- Participating students will be monitored during high school and compared to test group of students who did not take advantage of advanced level courses: attendance, grade average & on line for graduation
- Parent comment: "My son has decided he wants to be an Engineer and is using your educational model for planning his high school and beyond"
- Parent comment: "I did not know that Denton ISD had so much to offer"
- $35,000 funds expended to date
- PBMAS data reflects a 2/10 of 1 percent dropout rate for advanced CTE students
- Advanced CTE students TAKS performance meets or exceeds average high school scores
- Students who earn high school credit early will reduce 9th grade retention, increase attendance, motivate students and inspire success planning

Upcoming:
- Redo all Educational Models to meet new TEA course changes
- Continue to update STEM labs
- Offer innovative pilot to other middle school campuses
- Create competitive STEM event at ATC for middle school students

- **Recommendation from the field**
  - Middle school is a critical indicator for high school success and dropout prevention
  - Alignment by clusters are easy to understand by students & community
    - *Education Models brings it all together and validates the importance of academic and preparation for the future*
  - The new requirement of fine arts has limited student access to technology
  - Students can only select one elective field
  - All eight grade students should be <u>required</u> to take a course in career planning & use of basic software application
    - Good career counseling does not happen in a one hour presentation
  - Middle school grant funding should not be mixed in with high school ADA dollars
  - Funding should clearly "spell out" how it can be spent
  - Tiered funding reduces significantly the dollars a school district allows to be budgeted since tier 1 funding amounts to approximately 12%

- A school district accountability should reflect documentation of support beyond salaries

- **Contact Information:**
    - Mthompson2@dentonisd.org

Middle School

The middle school sequence is utilized to provide students the opportunity to enter high school with early credit, personal planning and/or an understanding higher educational requirements.

Elective Wheel

and/ or

and/ or

Business-Related Prep

Exploring Careers (was Career Investigation) (1-2 SEM) [7-8]

Touch Systems Data Entry (.5-1) [7-8] (HS) (was Keyboarding)/ Principles of Information Technology (.5-1) [7-8]

High School Clusters

Arts, A/V, Technology & Communication
Business Management & Administration
Finance
Law, Public Safety, & Security
Gov't & Public Administration
Marketing

Personal Services Prep

Principles of Hospitality & Tourism 7-8 (.5-1) (HS) (was Prep-ATC or Career Connections)

Family & Community Services 7-8 (.5-1) (HS) (was Skills for Living)

High School Clusters

Education & Training
Health Science
Hospitality & Tourism
Human Services
Undeclared Career Goal

Applied Technology Prep

Career Portal Specialization (1-2 SEM) [7-8] (ie. Construction or Technology Education)

Energy, Power, & Transportation 8 (1) (HS) (was Advanced Tech Ed-innovative course currently taught at NAVO only; approval required by CTE & GT director)
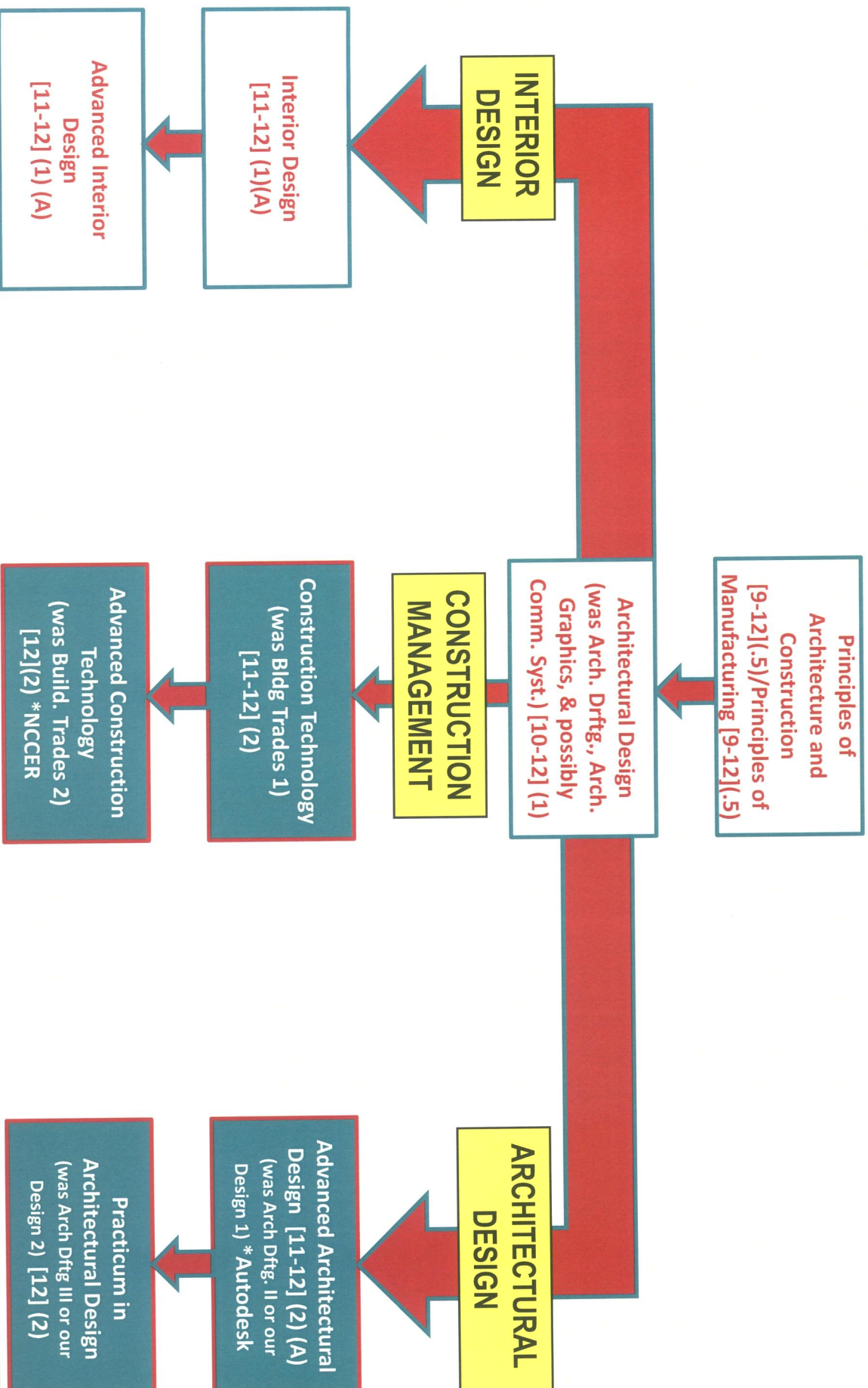
High School Clusters

Agriculture, Food, & Natural Resources
Architecture & Construction
Manufacturing
Science, Technology, Engineering & Math (STEM)
Transportation, Distribution & Logisticsw

Architecture and Construction

Business Information Management (1) (A) is a Microsoft Office course which can count as a measure toward graduation on the DAP which trains students in Word, Powerpoint, Excel, & Access providing the skills necessary for college and career readiness. It is a highly recommended course for all students to take.

INTERIOR DESIGN

Interior Design [11-12] (1)(A)

Advanced Interior Design [11-12] (1) (A)

University Experience Practicum (2) (A) is a Senior level college-prep course and can complement any sequence.

Principles of Architecture and Construction [9-12](.5)/Principles of Manufacturing [9-12](.5)

Architectural Design (was Arch. Drftg., Arch. Graphics, & possibly Comm. Syst.) [10-12] (1)

CONSTRUCTION MANAGEMENT

Construction Technology (was Bldg Trades 1) [11-12] (2)

Advanced Construction Technology (was Build. Trades 2) [12](2) *NCCER

ARCHITECTURAL DESIGN

Advanced Architectural Design [11-12] (2) (A) (was Arch Drftg. II or our Design 1) *Autodesk

Practicum in Architectural Design (was Arch Dftg III or our Design 2) [12] (2)

Each CTE sequence provides opportunity for students to earn licenses, certifications, and/ or college tech prep credits.

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Arts, A/V Technology & Communication

Business Information Management I
[9-12](1) (was BCIS I) (A)
*MOS –Word, Excel, Access, & Powerpoint

Digital & Interactive Media (was BIMM)
[10-12] (1)

FASHION DESIGN

Fashion Design
[11-12] (1)

Advanced Fashion Design [12] (2)

MEDIA TECHNOLOGY

Audio Video Production
[11-12] (2) (A) *Audio Systs.–Level II, Cert. Broadcast Technologist (CBT), Cert. Television Operator (CTO), Final Cut Pro

Advanced Audio Video Production [12](2) (A)
*Audio Systs.–Level II, Cert. Broadcast Technologist (CBT), Cert. Television Operator (CTO), Final Cut Pro

ANIMATION

Animation
[11-12] (2) (A) *Flash

Advanced Animation
[12] (2) (A) *Flash

GRAPHIC DESIGN

Graphic Design & Illustration [11-12] (2)
*Adobe Illustrator(ACE), Adobe InDesign, Adobe Photoshop, Dreamweaver, & Flash

Advanced Graphic Design & Illustration
[12] (2) *Adobe Illustrator(ACE), Adobe InDesign, Adobe Photoshop, Dreamweaver, & Flash

COMMERCIAL PHOTOGRAPHY

Commercial Photography
[11-12] (2)
* Adobe Photoshop

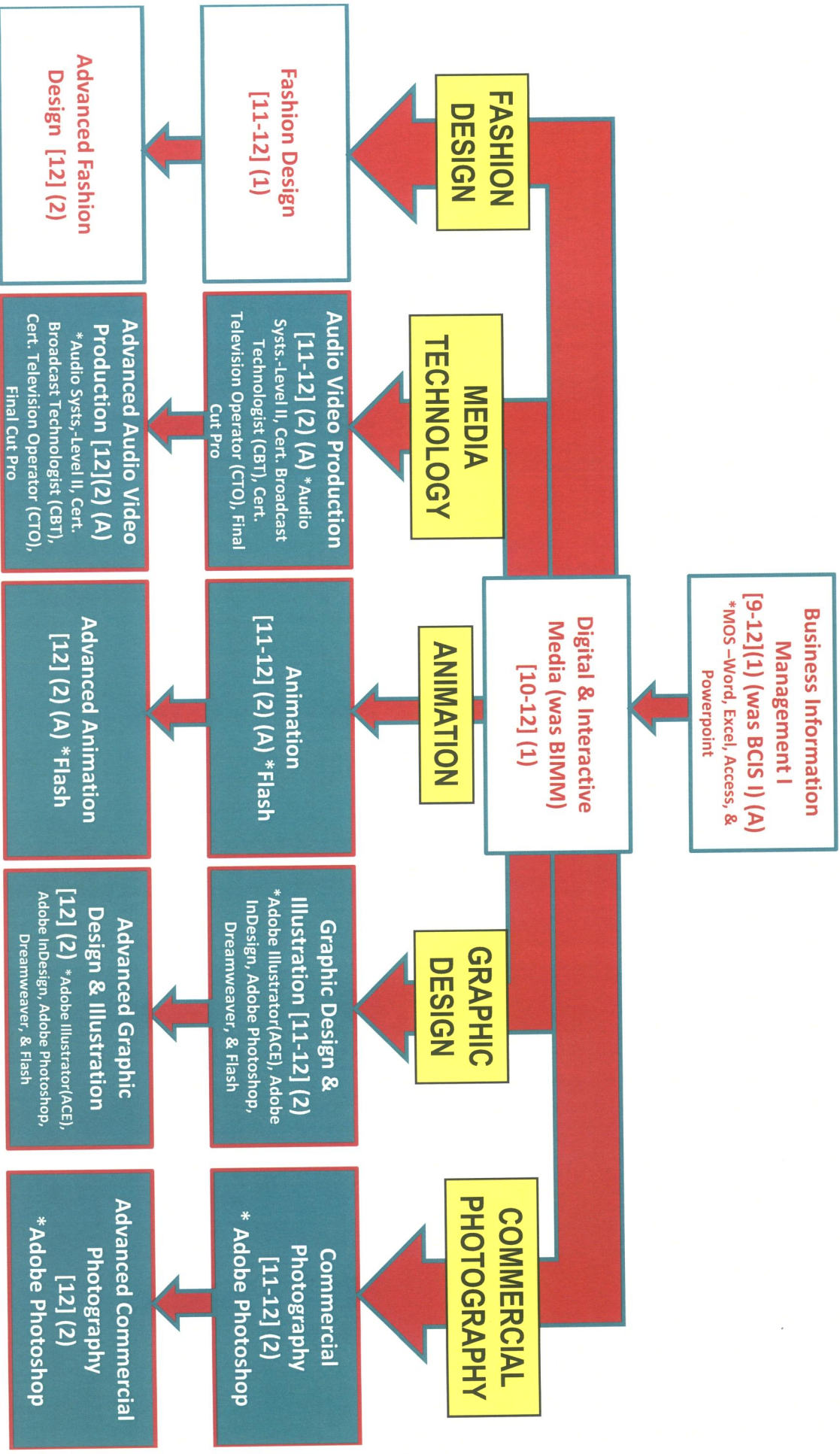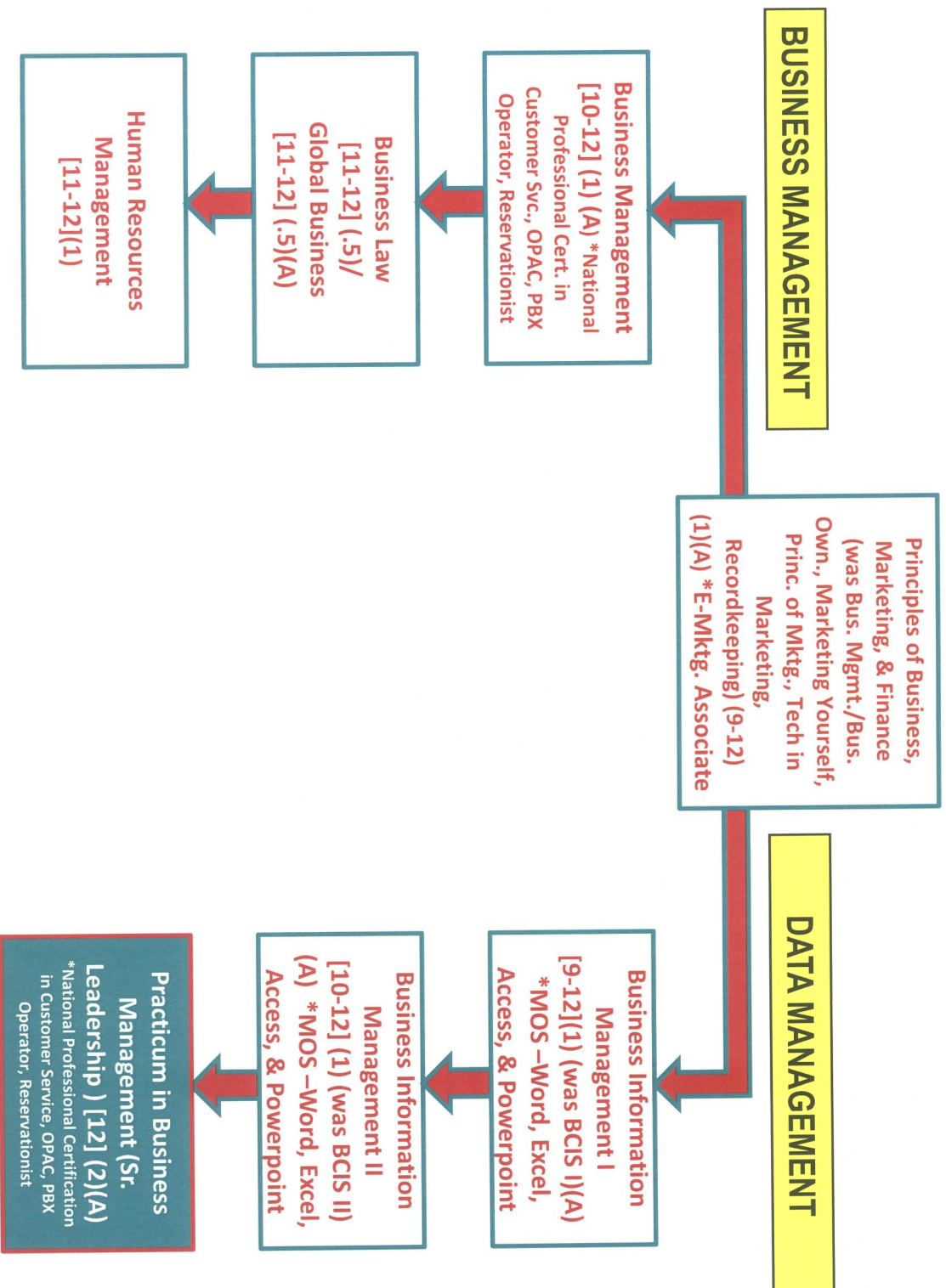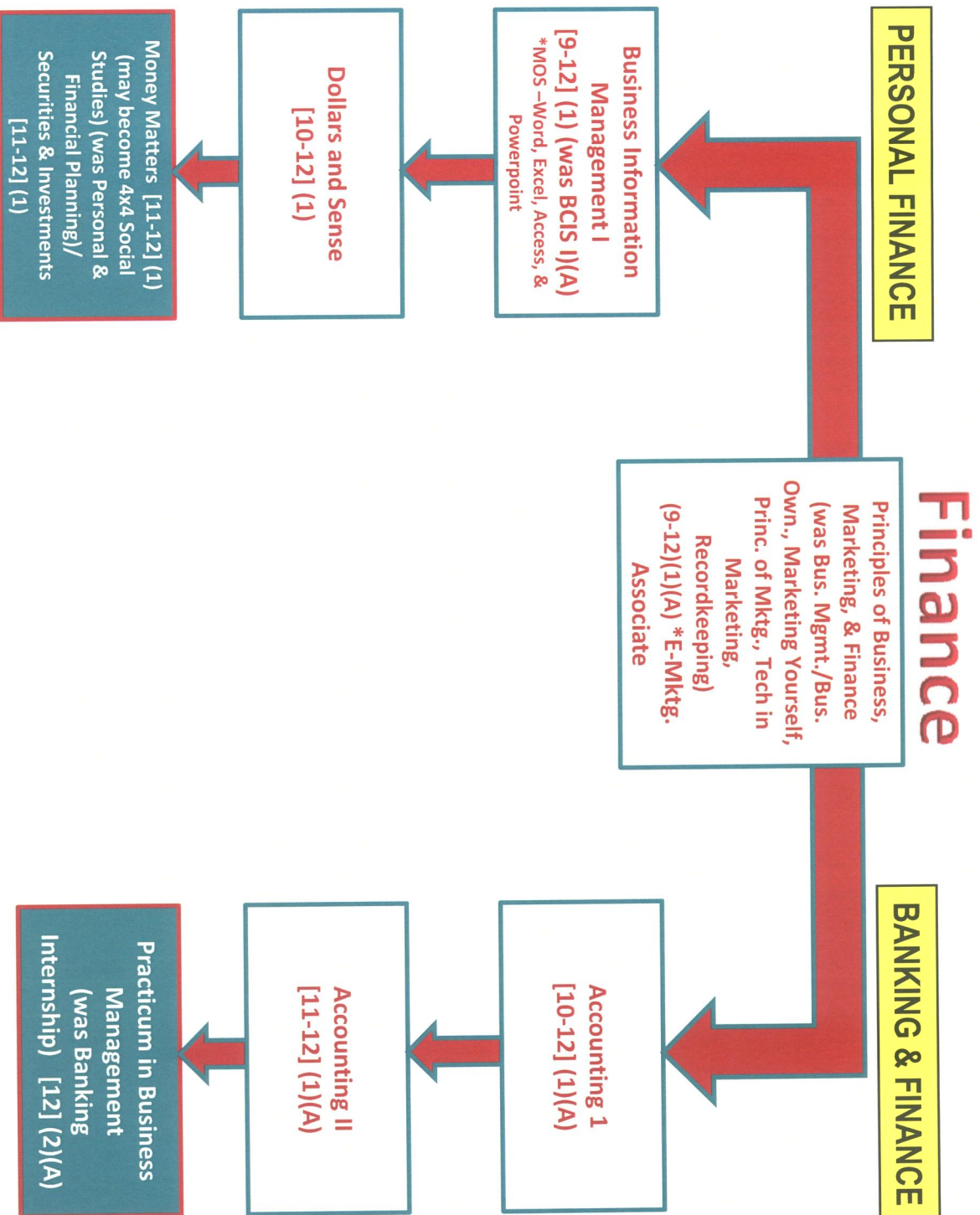Advanced Commercial Photography
[12] (2)
*Adobe Photoshop

University Experience Practicum (2) (A) is a Senior level college-prep course and can complement any sequence.

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Business Management & Administration

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BUSINESS MANAGEMENT

Principles of Business, Marketing, & Finance (was Bus. Mgmt./Bus. Own., Marketing Yourself, Princ. of Mktg., Tech in Marketing, Recordkeeping) (9-12) (1)(A) *E-Mktg. Associate

↓

Business Management [10-12] (1) (A) *National Professional Cert. in Customer Svc., OPAC, PBX Operator, Reservationist

→

Business Law [11-12] (.5)/ **Global Business** [11-12] (.5)(A)

→

Human Resources Management [11-12](1)

University Experience Practicum (2) (A) is a Senior level college-prep course and can complement any sequence.

DATA MANAGEMENT

Business Information Management I [9-12](1) (was BCIS I)(A) *MOS – Word, Excel, Access, & Powerpoint

→

Business Information Management II [10-12] (1) (was BCIS II) (A) *MOS – Word, Excel, Access, & Powerpoint

→

Practicum in Business Management (Sr. Leadership) [12] (2)(A) *National Professional Certification in Customer Service, OPAC, PBX Operator, Reservationist

Each CTE sequence provides opportunity for students to earn licenses, certifications, and/or college tech prep credits.

Education & Training

EDUCATION

Principles of Education & Training [9-12](.5)/ Principles of Human Services [9-12](.5)

➡️

Human Growth & Development [10-12] (1) (A)

➡️

Instructional Practice in Education & Training [11-12] (2)(A)

➡️

Practicum in Education & Training [12] (2) (A) *Educational Aide Certificate I

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Finance

PERSONAL FINANCE

Business Information Management I [9-12] (1) (was BCIS I)(A) *MOS –Word, Excel, Access, & Powerpoint

Dollars and Sense [10-12] (1)

Money Matters [11-12] (1) (may become 4x4 Social Studies) (was Personal & Financial Planning)/ Securities & Investments [11-12] (1)

University Experience Practicum (2) (A) is a Senior level college-prep course and can complement any sequence.

Principles of Business, Marketing, & Finance (was Bus. Mgmt./Bus. Own., Marketing Yourself, Princ. of Mktg., Tech in Marketing, Recordkeeping) (9-12)(1)(A) *E-Mktg. Associate

BANKING & FINANCE

Accounting 1 [10-12] (1)(A)

Accounting II [11-12] (1)(A)

Practicum in Business Management (was Banking Internship) [12] (2)(A)

Each CTE sequence provides opportunity for students to earn licenses, certifications, and/ or college tech prep credits.

Health Science

PRE-VETERINARY

Principles of Health Science [9-12] (.5) /Medical Terminology [9-12] (.5) (A)
→
Small Animal Mgmt. [10-12] (.5) / Equine Science [10-12] (.5) (A)
→
Advanced Animal Science [11] (1) (A)
→
Practicum in Health Science- Pre-Veterinary Medicine (was HSTE III) [12] (2) * Certified Veterinary Assistant

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Business Information Management I [9-12] (1) (was BCIS I)(A) *MOS –Word, Excel, Access, & Powerpoint
→
Principles of Health Science [9-12] (.5) /Medical Terminology [9-12] (.5) (A)
→
Health Science (was HSTE II) [11-12] (2)(A)

PRE-LICENSED VOCATIONAL NURSE
→
Practicum in Health Science –Pre-LVN(was HSTE III) [12] (2)(A) *Licensed Vocational Nurse

ADVANCED CLINICAL SPECIALIZATION
→
Practicum in Health Science-Job Shadow (was HSTE III) [12] (2) *Advanced Clinical Specialization

PHARMACY TECHNICIAN
→
Practicum in Health Science-Pharmacy Technician (was HSTE III) [12] (2)(A) *CPHT

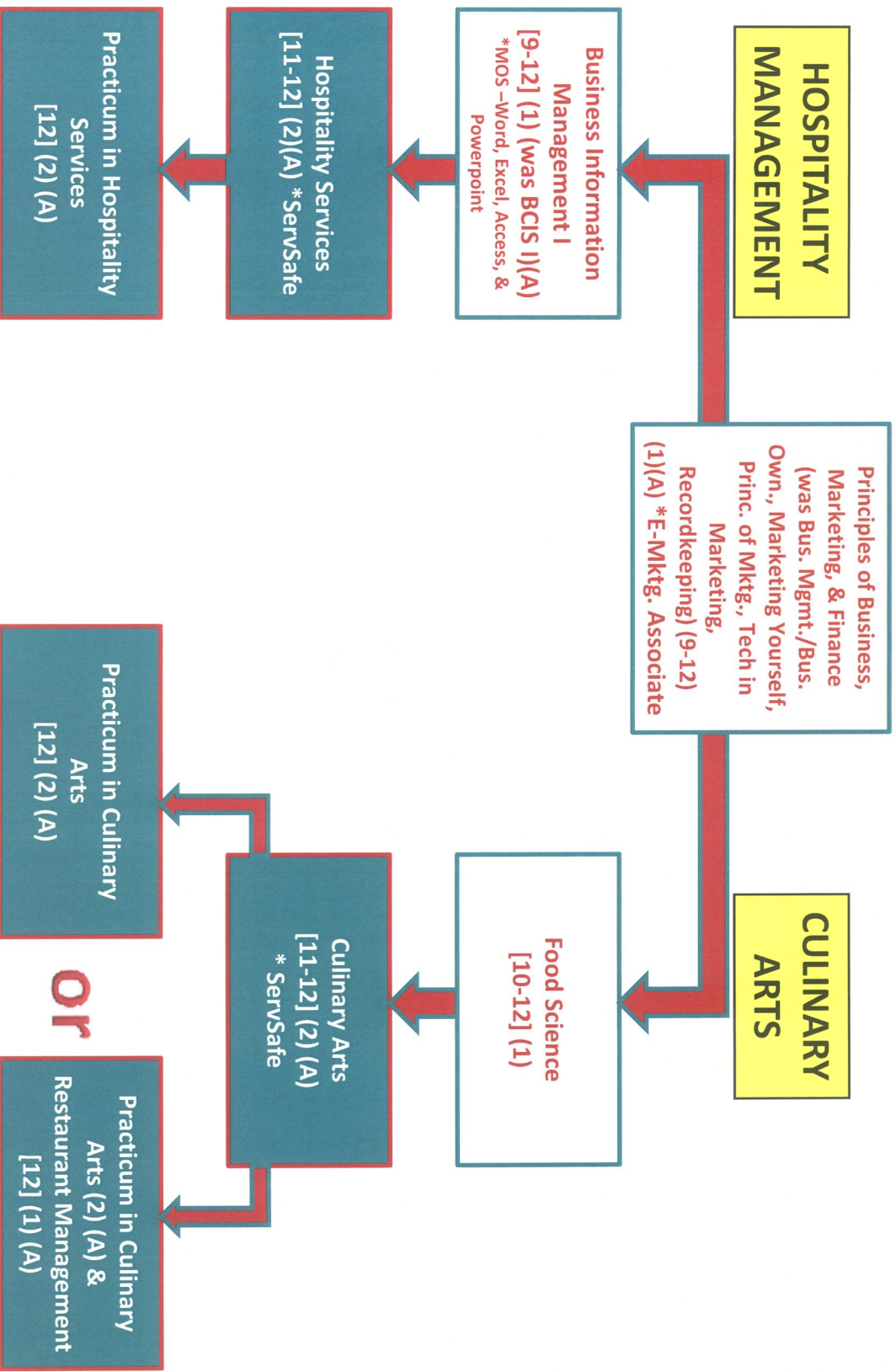### CERTIFIED NURSING ASSISTANT
→
Practicum in Health Science –CNA(was HSTE III) [12] (2)(A) *Certified Nursing Aide

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University Experience Practicum (2) (A) is a Senior level college-prep course and can complement any sequence.

Each CTE sequence provides opportunity for students to earn licenses, certifications, and/ or college tech prep credits.

Hospitality & Tourism

HOSPITALITY MANAGEMENT

Business Information Management I [9-12] (1) (was BCIS I)(A)
*MOS –Word, Excel, Access, & Powerpoint

→ **Hospitality Services [11-12] (2)(A) *ServSafe**

→ **Practicum in Hospitality Services [12] (2) (A)**

Principles of Business, Marketing, & Finance (was Bus. Mgmt./Bus. Own., Marketing Yourself, Princ. of Mktg., Tech in Marketing, Recordkeeping) (9-12) (1)(A) *E-Mktg. Associate

CULINARY ARTS

Food Science [10-12] (1)

→ **Culinary Arts [11-12] (2) (A) * ServSafe**

→ **Practicum in Culinary Arts [12] (2) (A)**

or

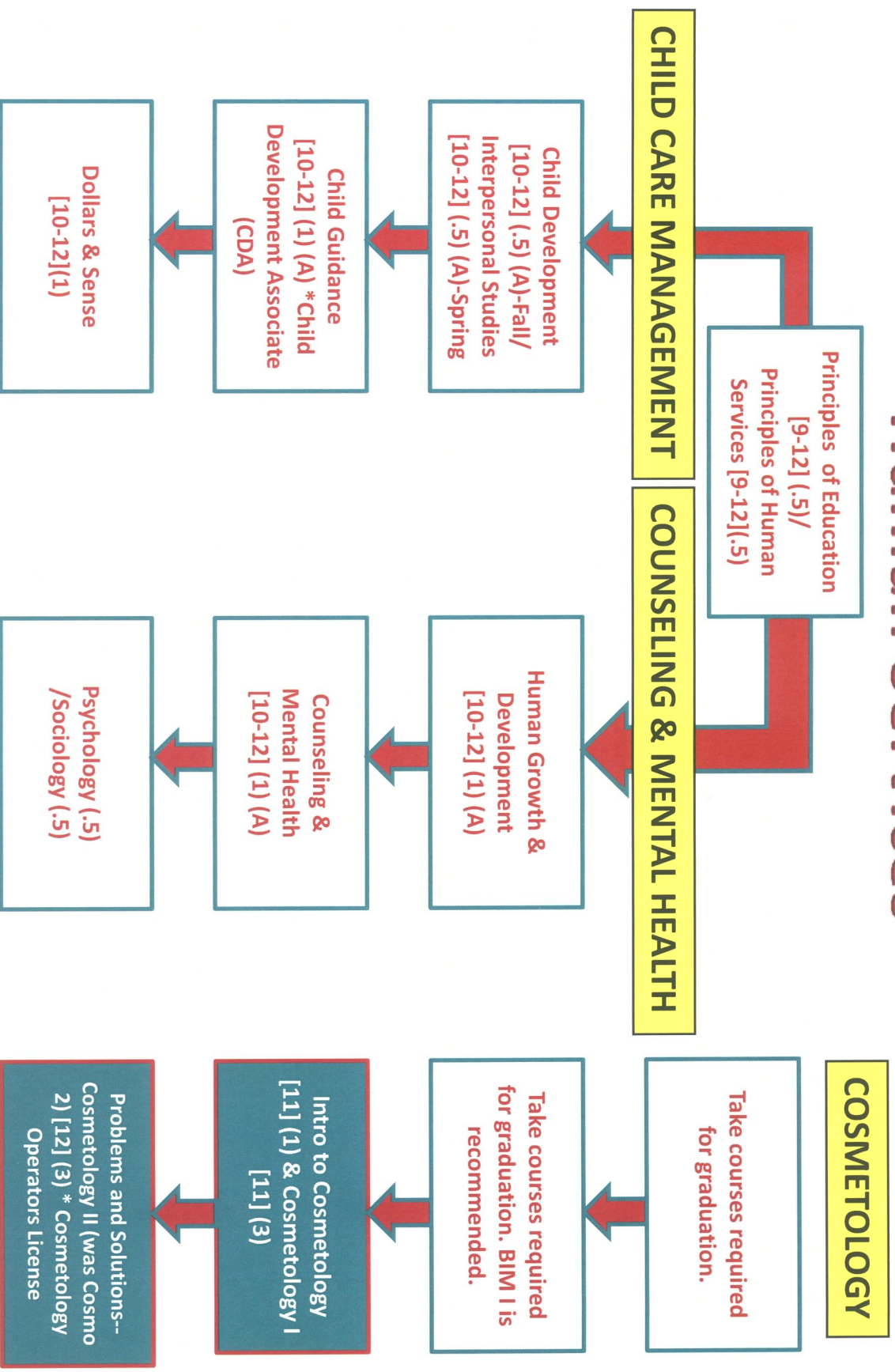→ **Practicum in Culinary Arts (2) (A) & Restaurant Management [12] (1) (A)**

University Experience Practicum (2) (A) is a Senior level college-prep course and can complement any sequence.

Each CTE sequence provides opportunity for students to earn licenses, certifications, and / or college tech prep credits.

Human Services

CHILD CARE MANAGEMENT

Principles of Education [9-12] (.5)/ Principles of Human Services [9-12](.5)

Child Development [10-12] (.5) (A)-Fall/ Interpersonal Studies [10-12] (.5) (A)-Spring

Child Guidance [10-12] (1) (A) *Child Development Associate (CDA)

Dollars & Sense [10-12](1)

COUNSELING & MENTAL HEALTH

Human Growth & Development [10-12] (1) (A)

Counseling & Mental Health [10-12] (1) (A)

Psychology (.5) /Sociology (.5)

COSMETOLOGY

Take courses required for graduation.

Take courses required for graduation. BIM I is recommended.

Intro to Cosmetology [11] (1) & Cosmetology I [11] (3)

Problems and Solutions-- Cosmetology II (was Cosmo 2) [12] (3) * Cosmetology Operators License
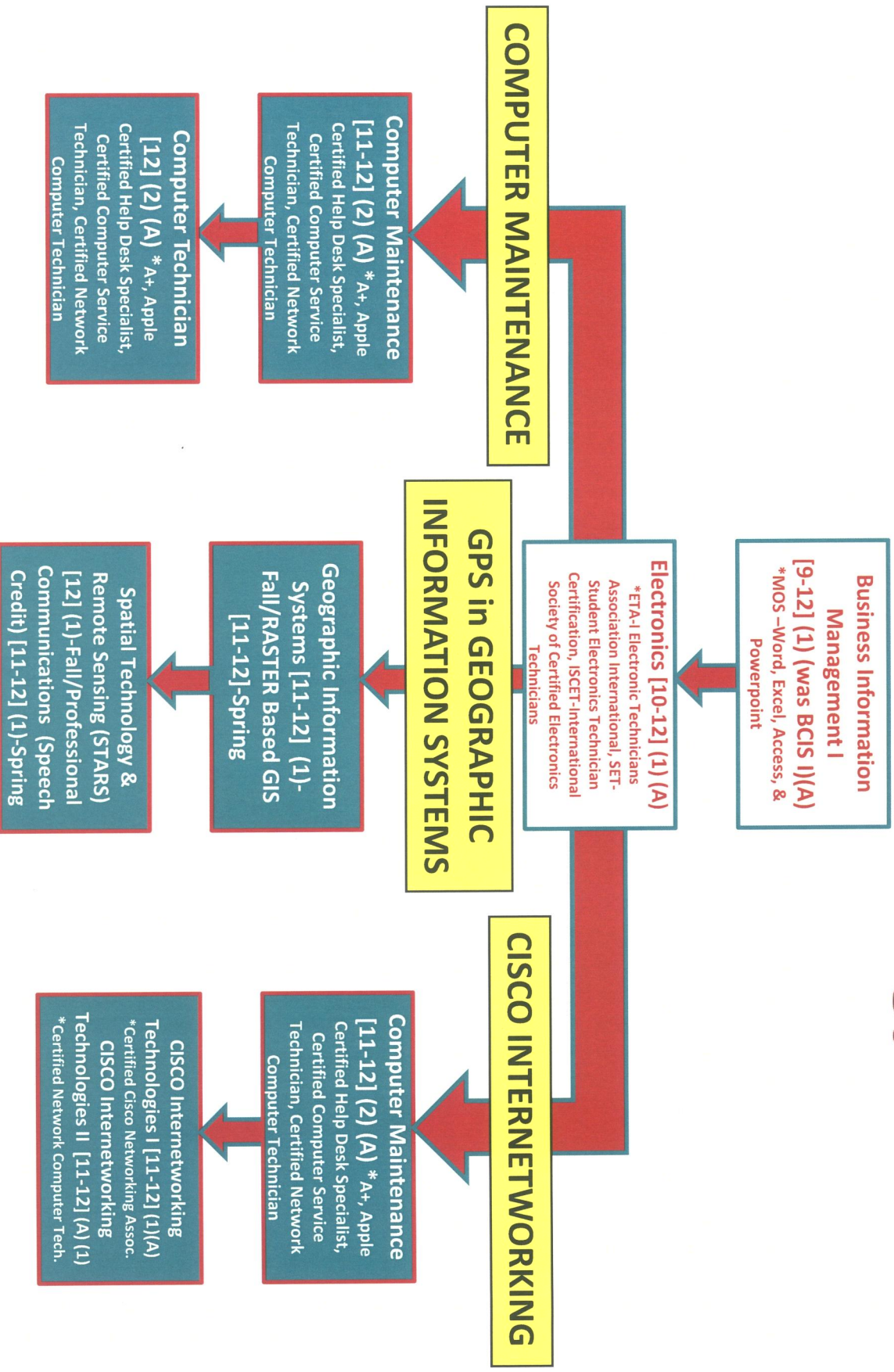
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Each CTE sequence provides opportunity for students to earn licenses, certifications, and/ or college tech prep credits.

Information Technology

COMPUTER MAINTENANCE

Computer Maintenance [11-12] (2) (A) *A+, Apple Certified Help Desk Specialist, Certified Computer Service Technician, Certified Network Computer Technician

Computer Technician [12] (2) (A) * A+, Apple Certified Help Desk Specialist, Certified Computer Service Technician, Certified Network Computer Technician

GPS in GEOGRAPHIC INFORMATION SYSTEMS

Geographic Information Systems [11-12] (1)- Fall/RASTER Based GIS [11-12]-Spring

Spatial Technology & Remote Sensing (STARS) [12] (1)-Fall/Professional Communications (Speech Credit) [11-12] (1)-Spring

Electronics [10-12] (1) (A) *ETA-I Electronic Technicians Association International, SET-Student Electronics Technician Certification, ISCET-International Society of Certified Electronics Technicians

Business Information Management I [9-12] (1) (was BCIS I)(A) *MOS –Word, Excel, Access, & Powerpoint

CISCO INTERNETWORKING

Computer Maintenance [11-12] (2) (A) *A+, Apple Certified Help Desk Specialist, Certified Computer Service Technician, Certified Network Computer Technician

CISCO Internetworking Technologies I [11-12] (1)(A) *Certified Cisco Networking Assoc. CISCO Internetworking Technologies II [11-12] (A) (1) *Certified Network Computer Tech.

University Experience Practicum (2) (A) is a college-prep course and can complement any sequence.

Each CTE sequence provides opportunity for students to earn licenses, certifications, and/ or college tech prep credits.

Law, Public Safety, Corrections and Security

Government and Public Administration

Principles of Law, Public Safety, Corrections, & Security (was Fund. Of Crim. Law) [9-12](.5-1)

Business Information Management I [9-12](1) (was BCIS I)(A) *MOS –Word, Excel, Access, & PowerPoint

PRE-LAW

Court Systems & Practices (was Courts & Criminal Procedures) [11-12] (2)

Practicum in Law, Public Safety, Corrections & Security [12] (2) (A)

EMERGENCY DISPATCH

Law Enforcement II [12] (2) (was Emer. Comm. 911 & Crime in America) (A) *Emergency Telecommunications

Law Enforcement I (was Crim. Invest. & Crime in America & Intro to Crim. Just.) [11-12] (2) (A)

CRIMINAL INVESTIGATION

Forensic Science [11-12] (1)-Fall /Disaster Response (CERT) (11-12) (1)- Spring * Community Emergency Response Team (FEMA)

CORRECTIONAL SERVICES

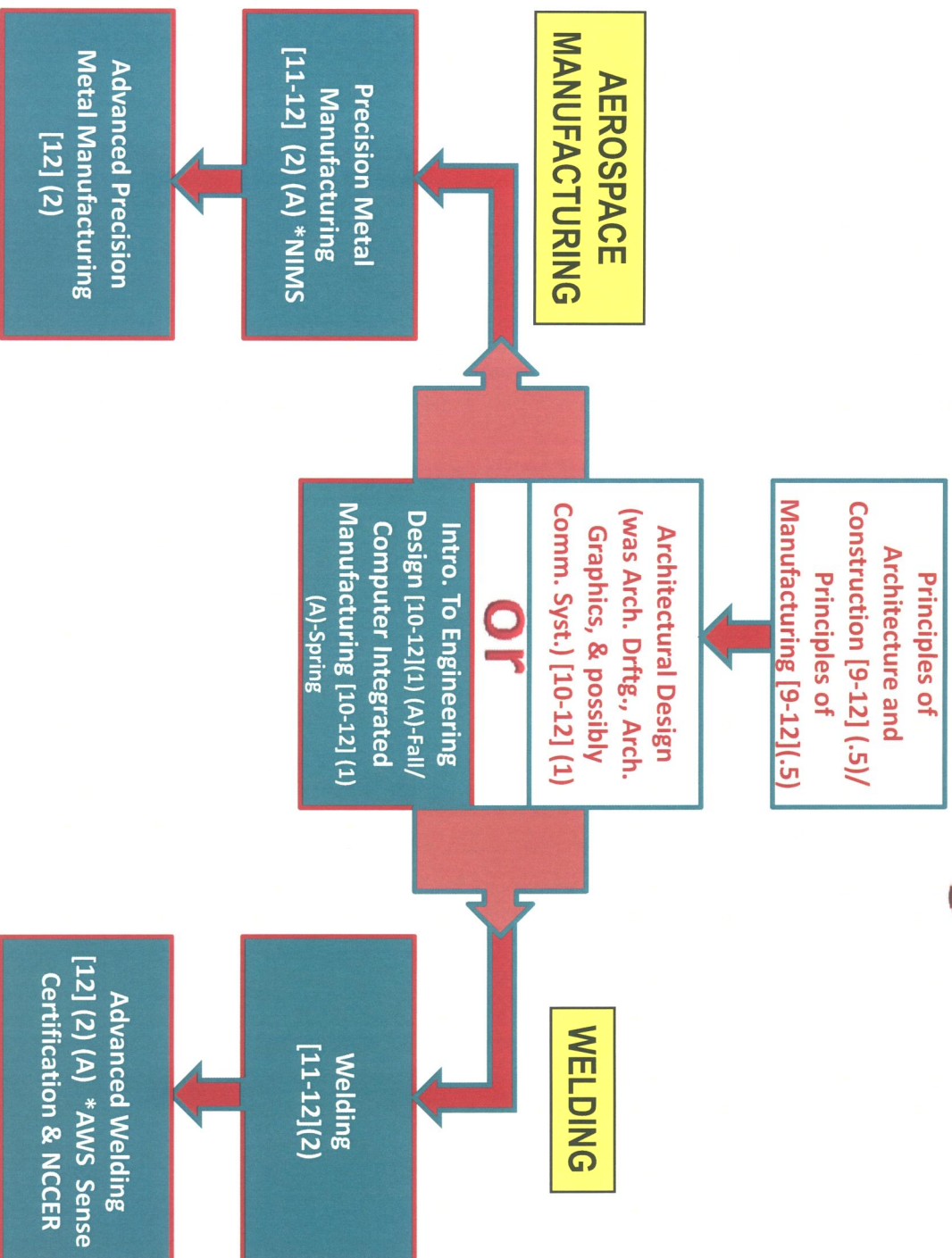Correctional Services [11-12] (2) (was Corr. Sys. & Practices) (A) *Correctional Officer

NATIONAL SECURITY & FOREIGN SERVICES

National Security [11-12] (2) (A)

Foreign Service and Diplomacy [11-12] (2)

Manufacturing

Principles of Architecture and Construction [9-12] (.5)/ Principles of Manufacturing [9-12](.5)

Architectural Design (was Arch. Drftg., Arch. Graphics, & possibly Comm. Syst.) [10-12] (1)

or

Intro. To Engineering Design [10-12](1) (A)-Fall/ Computer Integrated Manufacturing [10-12] (1) (A)-Spring

AEROSPACE MANUFACTURING

Precision Metal Manufacturing [11-12] (2) (A) *NIMS

Advanced Precision Metal Manufacturing [12] (2)

WELDING

Welding [11-12](2)

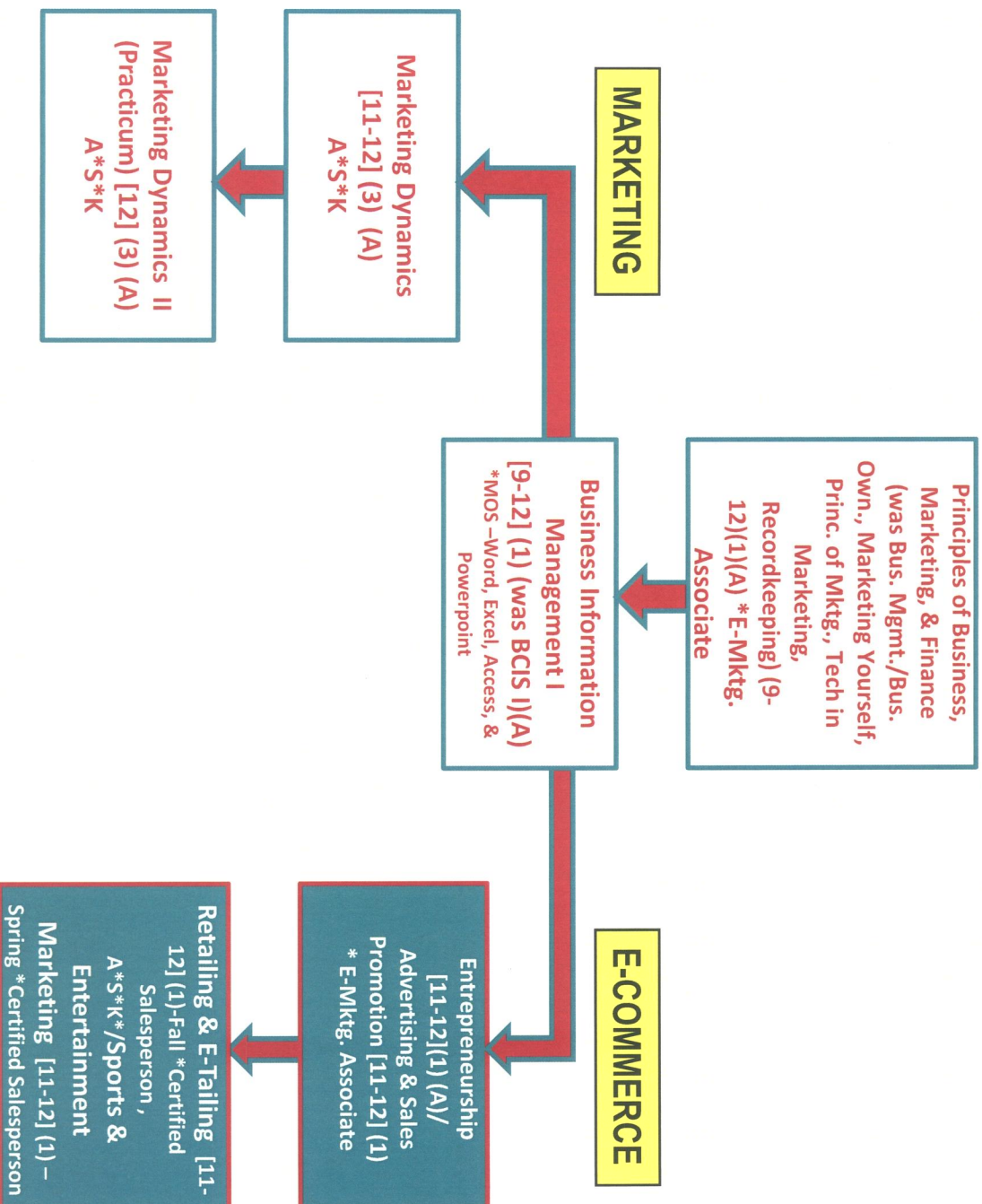**Advanced Welding [12] (2) (A) *AWS Sense Certification & NCCER**

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Marketing

Principles of Business, Marketing, & Finance (was Bus. Mgmt./Bus. Own., Marketing Yourself, Princ. of Mktg., Tech in Marketing, Recordkeeping) (9-12)(1)(A) *E-Mktg. Associate

Business Information Management I [9-12] (1) (was BCIS I)(A) *MOS –Word, Excel, Access, & Powerpoint

MARKETING

Marketing Dynamics [11-12] (3) (A) A*S*K

Marketing Dynamics II (Practicum) [12] (3) (A) A*S*K

E-COMMERCE

Entrepreneurship [11-12](1) (A)/ Advertising & Sales Promotion [11-12] (1) * E-Mktg. Associate

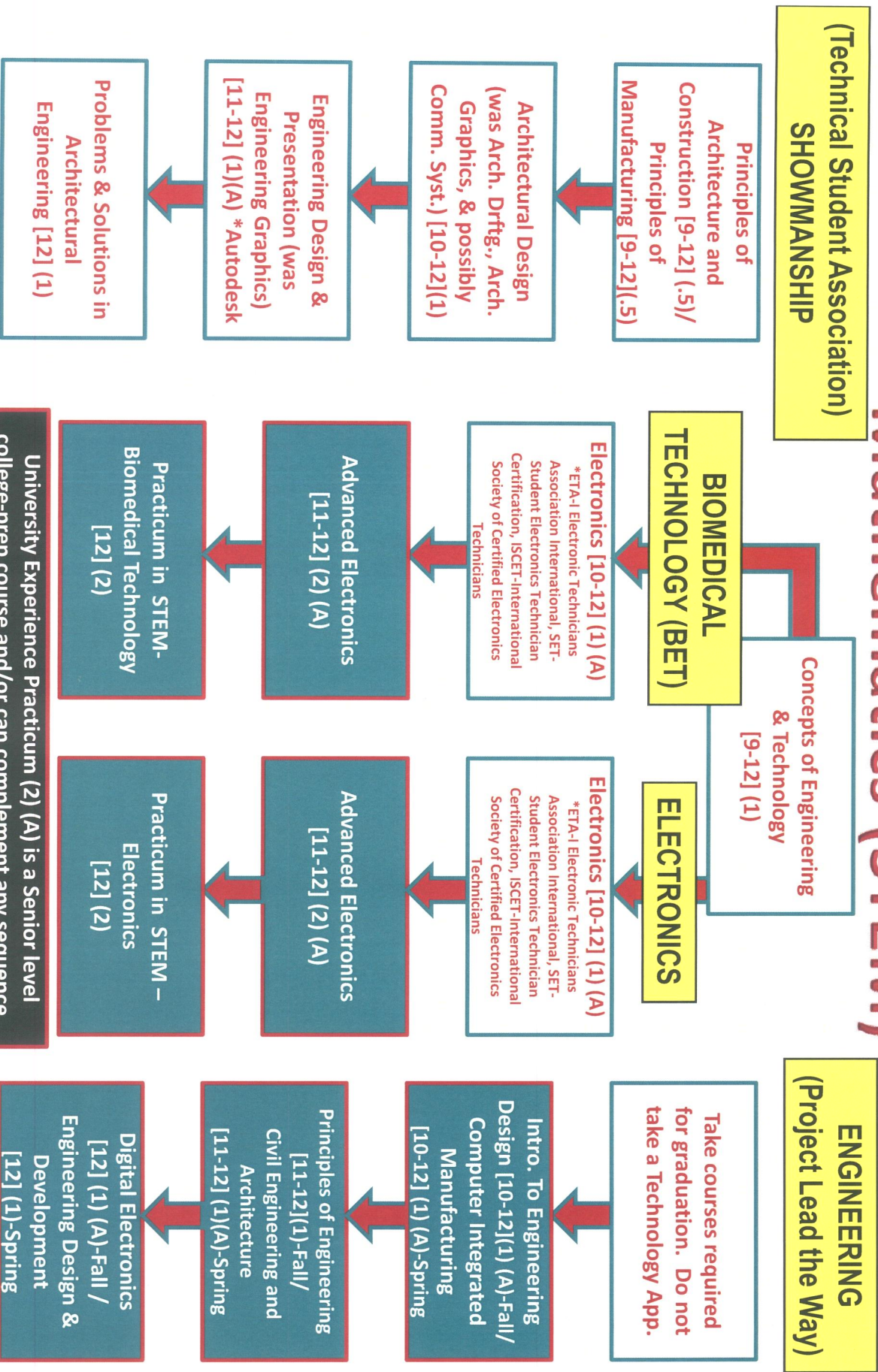Retailing & E-Tailing [11-12] (1)-Fall *Certified Salesperson , A*S*K*/Sports & Entertainment Marketing [11-12] (1) –Spring *Certified Salesperson

University Experience Practicum (2) (A) is a Senior level college-prep course and can complement any sequence.

Science, Technology, Engineering and Mathematics (STEM)

(Technical Student Association)
SHOWMANSHIP

Principles of Architecture and Construction [9-12] (.5)/ Principles of Manufacturing [9-12](.5)

→ Architectural Design (was Arch. Drftg., Arch. Graphics, & possibly Comm. Syst.) [10-12](1)

→ Engineering Design & Presentation (was Engineering Graphics) [11-12] (1)(A) *Autodesk

→ Problems & Solutions in Architectural Engineering [12] (1)

BIOMEDICAL TECHNOLOGY (BET)

Electronics [10-12] (1) (A) *ETA-I Electronic Technicians Association International, SET-Student Electronics Technician Certification, ISCET-International Society of Certified Electronics Technicians

→ Advanced Electronics [11-12] (2) (A)

→ Practicum in STEM-Biomedical Technology [12] (2)

University Experience Practicum (2) (A) is a Senior level college-prep course and/or can complement any sequence.

Concepts of Engineering & Technology [9-12] (1)

ELECTRONICS

Electronics [10-12] (1) (A) *ETA-I Electronic Technicians Association International, SET-Student Electronics Technician Certification, ISCET-International Society of Certified Electronics Technicians

→ Advanced Electronics [11-12] (2) (A)

→ Practicum in STEM–Electronics [12] (2)

ENGINEERING
(Project Lead the Way)

Take courses required for graduation. Do not take a Technology App.

→ Intro. To Engineering Design [10-12](1) (A)-Fall/ Computer Integrated Manufacturing [10-12] (1) (A)-Spring

→ Principles of Engineering [11-12](1)-Fall/ Civil Engineering and Architecture [11-12] (1)(A)-Spring

→ Digital Electronics [12] (1) (A)-Fall / Engineering Design & Development [12] (1)-Spring

Transportation, Distribution, & Logistics

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Take courses required for graduation. BIM is recommended.

Electronics [10--12] (1) (A)
*ETA-I Electronic Technicians Association International, SET-Student Electronics Technician Certification, ISCET-International Society of Certified Electronics Technicians

AUTOMOTIVE TECHNOLOGY

Automotive Technology [11-12] (2)

Advanced Automotive Technology (3)(A) *NATEF Certifications, Advanced Engine Performance Specialist, Hydraulics Specialist Certification

LOGISTICS

Logistics, Planning, & Management Systems (11-12) (2) (A)

Practicum in Transportation, Distribution, & Logistics-Air Traffic Control (ATC) /Dispatcher/Logistics [12] (2)
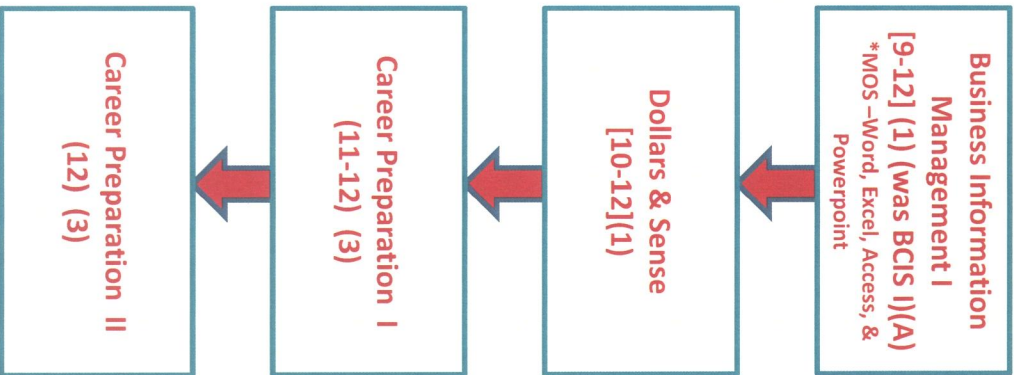
University Experience Practicum (2) (A) is a Senior level college-prep course and can complement any sequence.

AVIATION TECHNOLOGY

Aircraft Technology [11-12] (2)

or

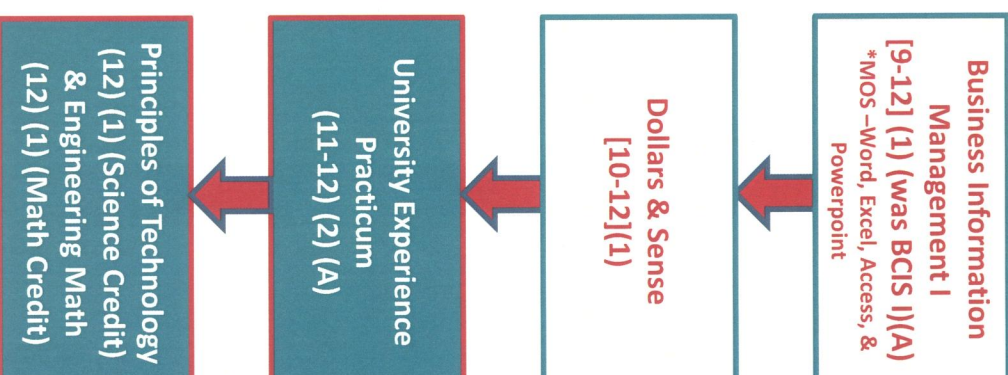Advanced Aircraft Technology [12] (2) (A)

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Clueless Cluster

Paid Employment Program: Entry Level Work Preparation

Business Information Management I [9-12] (1) (was BCIS I)(A) *MOS –Word, Excel, Access, & Powerpoint →

Dollars & Sense [10-12](1) →

Career Preparation I (11-12) (3) →

Career Preparation II (12) (3)

Undeclared Career Goal: College Preparation

Business Information Management I [9-12] (1) (was BCIS I)(A) *MOS –Word, Excel, Access, & Powerpoint →

Dollars & Sense [10-12](1) →

University Experience Practicum (11-12) (2) (A) →

Principles of Technology (12) (1) (Science Credit) & Engineering Math (12) (1) (Math Credit)

Each CTE sequence provides opportunity for students to earn licenses, certifications, and / or college tech prep credits.

1 Year College & Career Readiness Fast Track

Advanced Architectural Design (2) (A)
(was Arch Dftg. II or our Design 1) *Autodesk

Agricultural Mechanics & Metal Technologies
(A) (1) *NCCER

Animation
(2) (A) *Flash

Audio Video Production
(2) (A) *Audio Systs.–Level II, Cert. Broadcast Technologist (CBT), Cert. Television Operator (CTO), Final Cut Pro

Business Information Management I
(was BCIS I) (1) (A) *MOS –Word, Excel, Access, & Powerpoint

Business Management
(1) (A) *National Professional Cert. in Customer Svc., OPAC, PBX Operator, Reservationist

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Child Guidance (1) (A)
*Child Development Associate (CDA)

CISCO Internetworking I
(1) *Certified CISCO Networking Associate/II
(1) *Certified Network Computer Technician

Computer Maintenance
(2) (A) *A+, Apple Certified Help Desk Specialist, Certified Computer Service Technician, Certified Network Computer Technician, Cisco

Correctional Services
(2) (was Corr. Systs. & Practices) (A) *Correctional Officer

Retailing & E-Tailing
(1) *E-Mktg. Associate /Sports & Entertainment Marketing (1)

Electronics (2) (A) *ETA-I
Electronic Technicians Association Intl (Journeyman, SET-Student Elecronics Technician Certification, ISCET- International Society of Certified Electronics Technicians

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Graphic Design & Illustration
(2) *Adobe Illustrator(ACE), Adobe InDesign, Adobe Photoshop, Dreamweaver, & Flash

Landscape Design & Turf Grass Management (1)
*Private Pesticide App., Safe Tractor & Machinery Operation, Texas Certified Nursery Professional

Law Enforcement II
(2) (was Emerg. Comm. 911 & Crime in America) (A) *Emergency Telecommunications

Teen Certification First Responder

Precision Metal Manufacturing (A)
*NIMS

Practicum in Health Science (was HSTE III)
(2)(A) CNA *Certified Nursing Aide

Practicum in Health Science (was HSTE III)
(2)(A) Pharmacy Technician *CPHT

Principles & Elements of Floral Design (1) (A)
* Floral Certification

Principles of Technology
(1) (Science)

Range Ecology & Management
(1) *Private Pesticide Applicator

Electronics 1/ Bio-Med Technology (A)

Career Preparation (3)

University Experience Practicum (2) (A)

These senior level fast track courses require the junior level prerequisite or committee approval. Selection is based on space availability and those who follow the sequence have priority.