

Aubrey ISD Graduation Plan  
Students Entering Grade 9 in  
2014-2015 and beyond

Emphasis on Endorsement  
Requirements

# AISD Graduation Requirements

<b>English I</b>	<b>Biology</b>	<b>PE</b>
<b>English II</b>	<b>Chemistry</b>	<b>Fine Art</b>
<b>English III</b>	<b>Physics</b>	<b>LOTE I</b>
<b>English IV</b>	<b>Science IV</b>	<b>LOTE II</b>
		<b>Technology</b>
<b>Math I</b>	<b>World History</b>	<b>Health/Professional Communications</b>
<b>Math II</b>	<b>World Geography</b>	<b>Elective</b>
<b>Math III</b>	<b>U.S. History</b>	<b>Elective</b>
<b>Math IV</b>	<b>Economics/Government</b>	<b>Elective</b>
		<b>Elective</b>

**Total= 26 credits (Foundation Plan + Endorsement)**

**Student:** \_\_\_\_\_ **Student Email:** \_\_\_\_\_ **Parent/Guardian:** \_\_\_\_\_ **Parent Email:** \_\_\_\_\_

**Date of Original Plan:** \_\_\_\_\_ **Endorsement:** \_\_\_\_\_

**Year:** \_\_\_\_\_

1. English I \_\_\_\_\_
2. Math 1 \_\_\_\_\_
3. Science 1 \_\_\_\_\_
4. SS 1- World History or World Geography \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_

**Year:** \_\_\_\_\_

1. English III \_\_\_\_\_
2. Math III \_\_\_\_\_
3. Science III \_\_\_\_\_
4. SS 2- U.S. History \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_

**Year:** \_\_\_\_\_

1. English II \_\_\_\_\_
2. Math 2 \_\_\_\_\_
3. Science 2 \_\_\_\_\_
4. SS Elective-World History or World Geography \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_

**Year:** \_\_\_\_\_

1. English IV \_\_\_\_\_
2. Math IV \_\_\_\_\_
3. Science IV \_\_\_\_\_
4. SS 3- Economics/ Government \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_

# Arts & Humanities

Option 1: 5 Social Studies Credits (FPAHSS)

World History

World Geography

U.S. History

Economics/Government

AP Macroeconomics/AP Microeconomics OR Psychology/Sociology

Option 2: 4 levels of the same LOTE (FPAHLOTE)

Spanish I

Spanish II

Spanish III

Spanish IV

# Arts & Humanities

Option 3: Performing Arts-Theatre (FPAHPEARTH)

Theatre Arts I

Theatre Arts II

Theatre Arts III

Theatre Arts IV

Option 4: Performing Arts Instrumental-Band (FPAHPEARTI)

Band I

Band II

Band III

Band IV

# Arts & Humanities

Option 5: Visual Arts (FPAHVISART)

Art I

Art II

Art III

Art IV

Option 6: Technical Theatre (FPAHTECHTH)

Technical Theatre Arts I

Technical Theatre Arts II

Technical Theater Arts IV

Technical Theater Arts V

# Arts & Humanities

Option 7: Arts Combination (FPAHCOMB)

Four credits from only two categories of Fine Arts

Example:

Art I

Art II

Theatre Arts I

Theatre Arts II

# Business & Industry

## Option 1: Animal Systems (FPBIAGANSY)

Required: Coherent sequence of courses for 4 or more credits

At least two courses in the same career cluster

At least one advanced CTE-any course 3<sup>rd</sup> or higher in sequence

Final course must be from the Ag career cluster

Principles of Agriculture, Food and Natural Resources (AMS)

Computer course: BIM or PAVTC

Financial Literacy course: Dollars & Sense

Livestock Production

Small Animal Management

Equine Science

Wildlife, Fisheries and Ecology Management



# Business & Industry

## Option 2: Agriculture Mechanics (FPBIAGMECH)

Required: Coherent sequence of courses for 4 or more credits

At least two courses in the same career cluster

At least one advanced CTE-any course 3<sup>rd</sup> or higher in sequence

Final course must be from the Ag career cluster

Principles of Agriculture, Food, and Natural Resources (AMS)

Computer course: BIM or PAVTC

Financial Literacy course: Dollars & Sense

Agricultural Mechanics and Metal Technologies

Welding

Agricultural Facilities Design and Fabrication

Agricultural Power Systems

# Business & Industry

## Option 3: Animation (FPBIATANIM)

Required: Coherent sequence of courses for 4 or more credits

At least two courses in the same career cluster

At least one advanced CTE-any course 3<sup>rd</sup> or higher in sequence

Final course must be from the Arts, Audio/Video Technology and Communications career cluster

Lifetime Nutrition and Wellness

Computer course: BIM or PAVTC

Financial Literacy course: Dollars & Sense

Animation (Denton ATC) – write in 3 times in Grade 11

Advanced Animation (Denton ATC)- write in 3 times in Grade 12

# Business & Industry

## Option 4: Audio/Video Production (FPBIATAVP)

Required: Coherent sequence of courses for 4 or more credits

At least two courses in the same career cluster

At least one advanced CTE-any course 3<sup>rd</sup> or higher in sequence

Final course must be from the Arts, Audio/Video Technology and Communications career cluster

Lifetime Nutrition and Wellness

Computer course: BIM or PAVTC

Financial Literacy course: Dollars & Sense

Audio/Video Production- AHS or Denton ATC (write in 3 times in Grade 11)

Advanced Audio/Video Production-Denton ATC (write in 3 times in Grade 12)

# Business & Industry

## Option 5: Graphic Design

Required: Coherent sequence of courses for 4 or more credits

At least two courses in the same career cluster

At least one advanced CTE-any course 3<sup>rd</sup> or higher in sequence

Final course must be from the Arts, Audio/Video Technology and Communications career cluster

Lifetime Nutrition and Wellness

Computer Course: BIM or PAVTC

Financial Literacy course: Dollars & Sense

Graphic Design– Denton ATC (write in 3 times in Grade 11)

Advanced Graphic Design-Denton ATC (write in 3 times in Grade 12)

# Business & Industry

## Option 6: Commercial Photography (FPBIATCOPH)

Required: Coherent sequence of courses for 4 or more credits

At least two courses in the same career cluster

At least one advanced CTE-any course 3<sup>rd</sup> or higher in sequence

Final course must be from the Arts, Audio/Video Technology and Communications career cluster

Lifetime Nutrition and Wellness

Computer course: BIM or PAVTC

Financial Literacy course: Dollars & Sense

Commercial Photography- Denton ATC (write in 3 times in Grade 11)

Advanced Commercial Photography- Denton ATC (write in 3 times in Grade 12)

# Business & Industry

## Option 7: Accounting (FPBIFINACC)

Required: Coherent sequence of courses for 4 or more credits

At least two courses in the same career cluster

At least one advanced CTE-any course 3<sup>rd</sup> or higher in sequence

Final course must be from the Finance career cluster

Lifetime Nutrition and Wellness

Computer Course: BIM or PAVTC

Financial Literacy course: Dollars & Sense

Accounting I

Accounting II

# Business & Industry

## Option 8: Culinary Arts (FPBIHTCUL)

Required: Coherent sequence of courses for 4 or more credits

At least two courses in the same career cluster

At least one advanced CTE-any course 3<sup>rd</sup> or higher in sequence

Final course must be from the Hospitality and Tourism career cluster

Lifetime Nutrition and Wellness

Computer course: BIM or PAVTC

Financial Literacy course: Dollars & Sense

Culinary Arts or Restaurant Management (Denton ATC) – write in 3 times in Grade 11

Practicum in Culinary Arts(Denton ATC)- write in 3 times in Grade 12

# Business & Industry

## Option 9: Hospitality Services

Required: Coherent sequence of courses for 4 or more credits

At least two courses in the same career cluster

At least one advanced CTE-any course 3<sup>rd</sup> or higher in sequence

Final course must be from the Hospitality and Tourism career cluster

Lifetime Nutrition and Wellness

Computer course: BIM or PAVTC

Financial Literacy course: Dollars & Sense

Hospitality Services (Denton ATC) – write in 3 times in Grade 11

Practicum in Hospitality Services (Denton ATC)- write in 3 times in Grade 12

Hospitality Services Course: Students will develop the skills needed to excel in careers including; Hotel and Restaurant Manager, Cruise Ship Director, Chef, Amusement Park Manager, Travel Agent, and many more. Instruction will be delivered through classroom instruction and/or internships in community hotels. Example of skills covered include: communications and guest services, hotel ownership types, career exploration, security, ethics, forecasting, housekeeping, food service, and travel and tourism.



# Business & Industry

## Option 10: Computer Programming (FPBIITCOPR)

Required: Coherent sequence of courses for 4 or more credits

At least two courses in the same career cluster

At least one advanced CTE-any course 3<sup>rd</sup> or higher in sequence

Final course must be from the Information Technology career cluster

Lifetime Nutrition and Wellness

Computer course: BIM or PAVTC

Financial Literacy course: Dollars & Sense

Computer Programming

Advanced Computer Programming

# Business & Industry

## Option 11: Internetworking (FPBIITNEWK)

Required: Coherent sequence of courses for 4 or more credits

At least two courses in the same career cluster

At least one advanced CTE-any course 3<sup>rd</sup> or higher in sequence

Final course must be from the Information Technology career cluster

Lifetime Nutrition and Wellness

Computer course: BIM or PAVTC

Financial Literacy course: Dollars & Sense

Internetworking Technologies I- Cisco (Denton ATC) – write in 3 times in Grade 11

Internetworking Technologies II- Cisco (Denton ATC)- write in 3 times in Grade 12

Cisco Internetworking I / II helps prepare students for entry-level career opportunities, continuing education, and globally-recognized Cisco CCENT and CCNA certifications. Cisco Internetworking I/II provides general networking theory, practical experience, and opportunities for career exploration and soft-skills development. The curriculum teaches networking based on application, covering networking concepts within the context of network environments students may encounter in their daily lives – from small office and home office (SOHO) networking to more complex enterprise and theoretical networking models later in the curriculum. Cisco Internetworking I/II is designed for students with basic PC skills and foundational math and problem solving skills. The curriculum offers an engaging learning experience for more visual and kinesthetic learners. Many interactive activities are embedded in all of the courses to break up the text, help reinforce student comprehension and encourage additional hands-on practice.

# Business & Industry

## Option 12: Computer Technician

Required: Coherent sequence of courses for 4 or more credits

At least two courses in the same career cluster

At least one advanced CTE-any course 3<sup>rd</sup> or higher in sequence

Final course must be from the Information Technology career cluster

Lifetime Nutrition and Wellness

Computer course: BIM or PAVTC

Financial Literacy course: Dollars & Sense

Computer Maintenance (Denton ATC) – write in 3 times in Grade 11

Computer Technician (Denton ATC)- write in 3 times in Grade 12

Computer Maintenance helps prepare students for entry-level career opportunities, continuing education, and globally-recognized Comptia A+ and Server+ certifications. Computer Maintenance covers the fundamentals of computer hardware and software as well as advanced concepts. Students who complete this course will be able to describe the internal components of a computer, assemble a computer system, install an operating system and troubleshoot using system tools and diagnostic software. Students will also be able to connect to the internet and share resources in a network environment. Topics also include laptops and portable devices, wireless connectivity, security, safety and environmental issues, and communication skills. Students will explore a variety of topics including installation procedures, security issues, back up procedures and remote access. Hands-on lab activities are an essential element.

# Business & Industry

## Option 13: Welding (FPBIMANWEL)

Required: Coherent sequence of courses for 4 or more credits

At least two courses in the same career cluster

At least one advanced CTE-any course 3<sup>rd</sup> or higher in sequence

Final course must be from the Manufacturing career cluster

Lifetime Nutrition and Wellness

Computer course: BIM or PAVTC

Financial Literacy course: Dollars & Sense

Welding (AHS) or (Denton ATC) – write in 3 times in Grade 11

Advanced Welding (Denton ATC)- write in 3 times in Grade 12

This course is an entry level technical welding course. The course is designed for the beginner with little or no welding experience who is interested in pursuing a course of study that can lead to an American Welding Society (AWS) entry level certification. Course curriculum follows American Welding Society “SENSE” guidelines to prepare the serious student for Entry Level certification testing after completing “Advanced Welding”.

# Business & Industry

## Option 14: Precision Metal (FPBIMANPM)

Required: Coherent sequence of courses for 4 or more credits

At least two courses in the same career cluster

At least one advanced CTE-any course 3<sup>rd</sup> or higher in sequence

Final course must be from the Manufacturing career cluster

Lifetime Nutrition and Wellness

Computer course: BIM or PAVTC

Financial Literacy course: Dollars & Sense

Precision Metal Manufacturing (Denton ATC) – write in 3 times in Grade 11

Advanced Precision Metal Manufacturing (Denton ATC)- write in 3 times in Grade 12

Ever wondered how precision metal products are manufactured for the aerospace, automotive, medical, and many other industries? Then this is the class for you! This course requires precision manufacturing tolerances within Ten Thousandths of an inch. In this course you will learn and work with the leading CAD/CAM (Computer Aided Design/Computer Aided Machining) software utilized by Industry. Students will also learn about material machineability and how to select and use the precision instruments necessary to ensure machined parts meet specifications and are within tolerance.

# Business & Industry

## Option 15: Aircraft Technology (FPBITDLAIR)

Required: Coherent sequence of courses for 4 or more credits

At least two courses in the same career cluster

At least one advanced CTE-any course 3<sup>rd</sup> or higher in sequence

Final course must be from the Transportation, Distribution & Logistics career cluster

Lifetime Nutrition and Wellness

Computer course: BIM or PAVTC

Financial Literacy course: Dollars & Sense

Aircraft Technology (Denton ATC) – write in 3 times in Grade 11

Advanced Aircraft Technology (Denton ATC)- write in 3 times in Grade 12

In Aircraft Technology, students gain knowledge and skills in the general repair, maintenance, and diagnosis of aircraft systems. This study allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. Students will be introduced to the aviation industry, air traffic control system, ground operations, as well as weather considerations, reporting, and prediction. Students will also learn the safety procedures, uses, and care of major shop equipment and tools. Students will explore career and post secondary opportunities as they relate to the aviation repair industry.

# Business & Industry

## Option 16: Automotive Technology (FPBITDLAUT)

Required: Coherent sequence of courses for 4 or more credits

At least two courses in the same career cluster

At least one advanced CTE-any course 3<sup>rd</sup> or higher in sequence

Final course must be from the Transportation, Distribution & Logistics career cluster

Lifetime Nutrition and Wellness

Computer course: BIM or PAVTC

Financial Literacy course: Dollars & Sense

Automotive Technology (Denton ATC) – write in 3 times in Grade 11

Advanced Automotive Technology (Denton ATC)- write in 3 times in Grade 12

In Automotive Technology, students gain knowledge and skills in the repair, maintenance, and diagnosis of motor vehicles. This study allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The National Automotive Technician Education Foundation(NATEF) standards are the basis for the course curriculum. The primary goal of this course is to prepare students to successfully take the A.S.E. (Automotive Service excellence) certification exams for the A5 Braking Systems and A6 Automotive Electrical/ Electronic Systems. Students will also learn the safety procedures, uses, and care of major shop equipment and tools. Students will explore career and post secondary opportunities as they relate to the automotive repair industry.

# Business & Industry

## Option 17: Logistics (FPBITDLLOG)

Required: Coherent sequence of courses for 4 or more credits

At least two courses in the same career cluster

At least one advanced CTE-any course 3<sup>rd</sup> or higher in sequence

Final course must be from the Transportation, Distribution & Logistics career cluster

Lifetime Nutrition and Wellness

Computer course: BIM or PAVTC

Financial Literacy course: Dollars & Sense

Logistics, Planning and Management Systems (Denton ATC) – write in 3 times in Grade 11

Practicum in Transportation, Planning and Management Systems(Denton ATC)- write in 3 times in Grade 12

In Logistics, Planning, and Management Systems students will explore the business planning and management aspects of transportation, distribution, and logistics. This study allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. Students will explore career and post secondary opportunities as they relate to the transportation industry.



# Business & Industry

Option 18: 4 English Elective Credits to include 3 levels in Yearbook or Debate

Example:

Journalism/Yearbook 1/ Yearbook 2/ Yearbook 3

Example:

Any English course/Debate 1/Debate 2/ Debate 3

# Multidisciplinary

Option 1: 4 Advanced Courses (FPMULTFRAD)

Four advanced courses that prepare a student to enter the workforce successfully or postsecondary education without remediation from within one endorsement area or among endorsement areas that are not in a coherent sequence.

# Multidisciplinary

Option 2: Four credits in each of 4 core area (FPMULTFRCA)

Four credits in each of the four foundation subject areas to include English IV and Chemistry and/or Physics.

English I, II, III, IV (must include English IV)

Math I, II, III, IV

Science I, II, III, IV (must include Chemistry and/or Physics)

Social Studies I, II, III, IV

# Multidisciplinary

Option 3: 4 credits in AP and/or DC (FPMULTAPDC)

Four credits in AP or DC selected from English, Math, Science, Social Studies, Economics, LOTE or Fine Arts

Current AHS Options:

DC-Composition I/Composition II (1.0 credit)

AP-Language and Composition (1.0 credit)

AP-Literature and Composition (1.0 credit)

DC-College Algebra/Elementary Statistics (1.0 credit)

AP-Calculus AB (1.0 credit)

DC-U.S. History to 1865/U.S. History from 1865 (1.0 credit)

DC-Macroeconomics/American National Government (1.0 credit)

AP-Macroeconomics/Microeconomics (1.0 credit)

# Public Services

## Option 1: Education & Training (FPPSED)

Required: Coherent sequence of courses for 4 or more credits

At least two courses in the same career cluster

At least one advanced CTE-any course 3<sup>rd</sup> or higher in sequence

Final course must be from the Education & Training career cluster

Lifetime Nutrition and Wellness

Computer course: BIM or PAVTC

Financial Literacy course: Dollars & Sense

Principles of Education & Training/Human Growth & Development

Instructional Practices in Education & Training(Denton ATC) – write in 3 times in Grade 11

Practicum in Education & Training (Denton ATC)- write in 3 times in Grade 12

Do you want to be in an internship program designed to equip the student with direct hands-on learning experiences in elementary/middle school classrooms? Students work under the joint direction and supervision of the elementary/middle school teacher and the high school instructor. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, develop activities for educational environments and complete responsibilities of teachers in general.

# Public Services

## Option 2: Government & Public Administration (FPPSGOVTPA)

Required: Coherent sequence of courses for 4 or more credits

At least two courses in the same career cluster

At least one advanced CTE-any course 3<sup>rd</sup> or higher in sequence

Final course must be from the Government & Public Administration career cluster

Lifetime Nutrition and Wellness

Computer course: BIM or PAVTC

Financial Literacy course: Dollars & Sense

Foreign Service and Diplomacy (Denton ATC) – write in 3 times in Grade 11

National Security (Denton ATC)- write in 3 times in Grade 12

Foreign Service includes knowledge of diplomacy and the impact of government and culture on world affairs. Students will be required to apply skills and knowledge of the United States in regard to laws, regulations, policies, procedures and customs of other countries. Diplomatic operations on a local, state, and national level will be reviewed and the student will understand working collaboratively with military and paramilitary structures. Analysis of requirements of citizenship (identification and documentation), national and international travel and laws are required. Leaders in the field will be frequent guest speakers.

National Security includes knowledge of maintaining a strong national security and encompasses such activities as operating a security agency, responding to disasters (participating in Community Emergency Response Teams/CERT), leadership skills and intelligence information. It also includes mitigating and preparing for the possible effects of chemical, biological or nuclear event and understanding the use of Geographical Information Systems (GIS) on a local, state, and national level. Understanding of and ability to work collaboratively with military and paramilitary structures is a necessary addition. Leaders in the field will be frequent guest speakers.

# Public Services

## Option 3: Health Science (FPPSHEASCI)

Required: Coherent sequence of courses for 4 or more credits

At least two courses in the same career cluster

At least one advanced CTE-any course 3<sup>rd</sup> or higher in sequence

Final course must be from the Health Science career cluster

Lifetime Nutrition and Wellness

Computer course: BIM or PAVTC

Financial Literacy course: Dollars & Sense

Anatomy & Physiology (AHS or Denton ATC)

Medical Microbiology/Pathophysiology

Health Science (Denton ATC) – write in 3 times in Grade 11

Practicum in Health Science ( 5 options at Denton ATC)- write in 3 times in Grade 12

Job Shadow Internship

Certified Nurse Assistant (C.N.A.)

Pharmacy Technical

Pre-Veterinary Internship

Pre-Licensed Vocation Nurse (LVN)

# Health Science Options

**Health Science** course is designed to provide for the development of multi-occupational knowledge and skills related to a wide variety of health care careers. Students will have hands-on experiences for continued knowledge and skill development. The course may be taught by different methodologies such as laboratory, clinical rotation, or cooperative education. Student maybe placed in clinical rotation internships at the hospitals; this placement is a privilege, not a guarantee.

**Practicum in Health Science** course may be taught by different methodologies such as laboratory, cooperative education or an occupationally specific course with clinical training. Student maybe placed in clinical rotation internships at the hospitals; this placement is a privilege, not a guarantee.



## **1) Job Shadow Internships**

### **Prerequisite: Health Science**

Job Shadow Internships in a special and selected specialty area are what this course entails. This course provides students an opportunity for an unpaid internship at a medical location correlated with the student's career goals. It can also be used as an occupational course specifically designed to provide knowledge and skills for certification or licensure in an allied health career. Students develop advanced clinical skills necessary for employment in the health care industry or continued education in health careers.

## **2) Certified Nursing Assistant (CNA) (Seniors Only)**

Prerequisite: None

Partnerships: Denton Regional Medical, Presbyterian Hospital of Denton, Denton Fire Department

This course is designed to provide instruction toward a Certification with the State of Texas for Certified Nursing Assistant. CNA's provide basic bedside care, under the care of a Physician, Registered Nurse and Licensed Vocational Nurse. Students will be able to work in a medical facility after passing state certification. Class requirements include 76 hours of classroom instruction along with a minimum of 30 to 40 hours of clinical instruction at the Nursing Facility.

# Health Science Options

## 3) Pharmacy Technician (Seniors Only)

**Prerequisite:** None

The objective of the Pharmacy Technician Program is to provide students with the skills and knowledge to prepare them for the national Pharmacy Technician Certification Board exam and enable students to qualify for entry-level positions in retail and hospital pharmacies. This integrated occupational course will provide an overview of the pharmacokinetics and pharmacodynamics of prescription and nonprescription medications. Course content will emphasize drug classifications, drug action, drug administration, ethical and legal issues, and safety. Students will develop an understanding of pharmaceuticals and its impact on the health care industry. Career options in pharmacy will also be explored.

#### **4) Pre-Veterinary Internship (Seniors Only)**

**Prerequisite:** None      **Partnership:** Denton Area Veterinarians

Pre-Vet Internship is designed to give students practical application of previously studied knowledge and skills. Students develop advanced clinical skills necessary for the employment in the health care industry (veterinary medicine). The student will learn to reason, think critically, make decisions, solve problems and communicate effectively. Students will be able to identify the employment opportunities, technology and safety requirements of each of the health care systems, including diagnostic, therapeutic, health informatics and biotechnology research. Students will document technical knowledge and skills and will be expected to update a professional portfolio. Students will participate in clinical observations at various facilities in the North Texas area during a portion of class time.

## **5) Pre - Licensed Vocational Nurse (LVN) (Seniors Only)**

**Prerequisite:** None **Partnership:** North Central Technical College

The Pre-LVN course is a college level class that covers in detail the following content areas: Chemistry of the body, Cells and Tissue, Organ System, Integumentary System, Skeletal System, Muscular System, Nervous System, Senses, Endocrine System, Blood, Circulatory System, Lymphatic System, Respiratory System, Digestive System, Metabolism, Urinary System, Fluid and Electrolyte, Acid-Base balance, Reproductive System, and Growth and Development. This course is designed to provide a portion of basic foundation curriculum of the Licensed Vocational Nursing program offered at North Central Texas College. Upon passing the final provided by NCTC with a minimum grade of 80%, the student will earn Anatomy and Physiology credit in the LVN program at NCTC. The student will be required to pass the Nursing Entrance Exam to be accepted into the LVN program

# Public Services

## Option 4: Human Services (FPPSHUMSER)

Required: Coherent sequence of courses for 4 or more credits

At least two courses in the same career cluster

At least one advanced CTE-any course 3<sup>rd</sup> or higher in sequence

Final course must be from the Human Services career cluster

Lifetime Nutrition and Wellness

Computer course: BIM or PAVTC

Financial Literacy course: Dollars & Sense

Introduction to Cosmetology/Cosmetology I (Denton ATC) – write in 3 times in Grade 11

Cosmetology II/ Cosmetology Problems and Solution (Denton ATC)- write in 3 times in Grade 12

# Public Services

## Option 5 : Court Systems (FPPSLPSCRT)

Required: Coherent sequence of courses for 4 or more credits

At least two courses in the same career cluster

At least one advanced CTE-any course 3<sup>rd</sup> or higher in sequence

Final course must be from the Law, Public Safety, Corrections and Security career cluster

Lifetime Nutrition and Wellness

Computer course: BIM or PAVTC

Financial Literacy course: Dollars & Sense

Principles of Law, Public Safety, Corrections and Security

Court Systems and Practices (Denton ATC) – write in 3 times in Grade 11

Practicum in Law, Public Safety, Corrections & Security (Denton ATC)- write in 3 times in Grade 12

# Public Services

Court Systems and Practices is an overview of the federal and state court systems. The course identifies the roles of judicial officers and the trial processes from pretrial to sentencing and examines the types and rules of evidence. Emphasis is placed on constitutional laws for criminal procedures such as search and seizure, stop and frisk, and interrogation. In addition to classroom learning, the student will hear lectures from individuals employed in the community in related fields. Students will participate in scenarios using skills from this course and academic courses to prepare various forms of grammatically correct communication, both orally and in writing. The class will participate in various mock trials, demonstrating mastery of knowledge and skills.

The Practicum will allow advanced students to intern within the court and legal service in Denton County. The Internship is designed to give students supervised practical application of previously studied knowledge and skills. Students must meet strict guidelines that govern community placement. Placement is not a guarantee, but an earned opportunity for the serious student. Internship location may be at Denton County District Attorney's office or at a local private law firm.

# Public Services

## Option 6: Law Enforcement (FPPSLPSLAE)

Required: Coherent sequence of courses for 4 or more credits

At least two courses in the same career cluster

At least one advanced CTE-any course 3<sup>rd</sup> or higher in sequence

Final course must be from the Law, Public Safety, Corrections & Security career cluster

Lifetime Nutrition and Wellness

Computer course: BIM or PAVTC

Financial Literacy course: Dollars & Sense

Principles of Law, Public Safety, Corrections and Security

Law Enforcement I (Denton ATC) – write in 3 times in Grade 11

Law Enforcement II (Denton ATC)- write in 3 times in Grade 12 ...or

Forensic Science/Disaster Response (Denton ATC)- write in 3 times in Grade 11

Correctional Services (Denton ATC)- write in 3 times in Grade 12



# Public Services

The Law Enforcement I course includes the role of constitutional law, the United States legal system, criminal law, law enforcement terminology, and the classification and elements of crime. Law Enforcement I is an overview of the history, organization, and functions of local, state and federal law enforcement. Students will learn the basics of criminal scene investigations.

Law Enforcement II includes knowledge of and preparation for postsecondary education and training or employment in the law enforcement field in the areas of forensic science, communications, law enforcement and investigations. The rules, regulations, laws, and techniques that assist the law enforcement professional are applied through the use of a variety of tools and equipment.

Correctional Services includes knowledge of and preparation for certification or employment in the corrections field. The rules, regulations, laws, and techniques that assist the correctional professional are part of the required curriculum that includes requirements set by the Texas Commission on Law Enforcement Officers Standards and Education (TCLEOSE) and the American Correctional Association. The history of corrections, behavior, communication skills, laws, conflict resolution, and technical skills are emphasized. Leaders in the field will be frequent guest speakers.

# Public Services

Forensic Science is a course focusing on the drive to unlock the mystery of crimes through the application of science. It is designed to provide students with an introductory understanding of criminology. Knowledge and skills will be gained in hair/fiber analysis, blood type analysis, bloodstain patterns, DNA, and fingerprint comparison.

Disaster Response is a course in which students may become CERT certified in order to work as a volunteer emergency team member or perhaps as a preparation for employment with the Federal Emergency Management Administration (FEMA).

# STEM(Science, Technology, Engineering, Mathematics)

**Option 1 : 4 or more credit from Project Lead the Way (Pre-Engineering at Denton ATC) (FPSTEMPLTW)**

**Students may begin the 3 year program in the 10<sup>th</sup> grade or later, but MUST take the courses in sequence in order for the training and education to be most effective. The courses are outline in their proper sequential order.**

**Year 1: Semester 1: (PLTW)- Introduction to Engineering Design**

**Year 1: Semester 2: (PLTW)- Computer Integrated Manufacturing**

**Year 2: Semester 1: (PLTW)- Principles of Engineering**

**Year 2: Semester 2: (PLTW)- Civil Engineering and Architecture**

**Year 3: Semester 1: (PLTW)- Digital Electronics**

**Year 3: Semester 2: (PLTW)- Engineering Design and Development**

A career in Science, Technology, Engineering or Mathematics (S.T.E.M.) is challenging and ever-changing. Learners who pursue one of these career fields will be involved in planning, managing, and providing scientific research and professional and technical services (e.g., physical science, social science, engineering) including laboratory and testing services, and research and development services. Project Lead The Way (PLTW) includes a three year sequence of courses which introduces students to the scope, rigor and discipline of engineering and engineering technology prior to entering college. Introduction at this level will allow high school students to determine if engineering is the career they desire. Students participating in PLTW courses are better prepared for college engineering programs and more likely to be successful, thus reducing the attrition rate in these college programs, which currently exceeds 50% nationally. The Technology Student Association (TSA), the student organization for students enrolled in S.T.E.M, is an avenue by which leadership, citizenship, and technical skills are integrated into the instructional program. Leadership training is provided through curriculum activities in which students learn to conduct and participate constructively in organized meetings, speak effectively before groups, work cooperatively with others, solve problems, and compete as individuals. TSA assists students in the achievement of technologically related competencies in the areas of bio-related technology, communication, engineering, electronics, graphics, design, manufacturing, and research and development.

# STEM(Science, Technology, Engineering, Mathematics)

Option 2 : 3 credit in Math (FPSTEMMATH)

3 credits in Mathematics by successfully completing Algebra II and 2 additional Math courses for which Algebra II is a prerequisite.

Examples: Algebra II/ Pre-Calculus/ AP Calculus

Algebra II/ Pre-Calculus/ DC Mathematics

# STEM(Science, Technology, Engineering, Mathematics)

Option 3 : 4 credits of Science (FPSTEMSCI)

4 credits in Science by successfully completing Chemistry, Physics and 2 additional Science courses

Chemistry, Physics and 2 additional Science courses to earn 4 credits chosen from:

Environmental Systems

AP Biology

AP Chemistry

Anatomy and Physiology (AHS or Denton ATC)

Medical Microbiology/ Pathophysiology

Forensic Science (Denton ATC)

# STEM(Science, Technology, Engineering, Mathematics)

Option 4 : 3 additional credits of Math and Science (FPSTEMMASC)

In additional to Algebra II, Chemistry and Physics, a coherent sequence of 3 additional credits from no more than 2 of these categories: CTE STEM courses (see above), Math courses (see above) or Science Courses (see above).

The task for students and parents is to decide which endorsement(s) the student will want to pursue.