

# **Updates & New Courses** 2017-2018



#### **OLD COURSE NAME NEW COURSE NAME** ALLIED HEALTH PATHOPHYSIOLOGY and ANATOMY & PHYSIOLOGY ALLIED HEALTH/ALLIED HEALTH ANATOMY & PHYSIOLOGY (ATC) **ARCHITECTURAL DESIGN 1** PRINCIPLES OF ARCHITECTURE **DIGITAL & INTERACTIVE MEDIA** PRINCIPLES OF ARTS, A/V TECH, COMMUNICATIONS INTRO TO CULINARY ARTS

FOOD AND NUTRITION

\*Some courses at the ATC such as: Animation, Graphic Design, Commercial Photography, A/V Production, Computer Maintenance, Aircraft Airframe Technology, and CISCO may have revisions such as names changes, grade level changes, and credit values. (Change in Child Guidance credits and requirements)

# **NEW COURSES**

Principles of Arts, A/V Tech, Comm (9th-12th) Principles of Manufacturing (9-12) Principles of Cosmetology (10th) Criminal Investigation (11<sup>th</sup> or 12<sup>th</sup>) HVAC program (11-12<sup>th</sup>) Political Science (11th or 12th) Practicum in Law, Public Safety, Corrections & Security (12th) Robotics I (must be in PLTW program) AC/DC Electronics (11-12) Solid State Electronics (11-12) Restaurant Management Practicum (11-12) (See the following pages for course descriptions)

# **IMPORTANT INFORMATION / DEADLINES**

Planning to take the **Health Science** course at the ATC next year? There will be a mandatory parent and student meeting at GHS on Feb 22nd at 5:30pm. Principles of Health Science is a Prerequisite for the Health Science and EMT program at the ATC. If you need to take Principles of Health Science you need to enroll today for the Principles of Health Science online course. Enrollment deadline January 31st.

All Health Science advanced course at the ATC in the Health Science sequence require Principles of Health Science and Health Science. Plan accordingly!

Cosmetology mandatory student parent meetings for current 9<sup>th</sup> and 10<sup>th</sup> graders are February 21<sup>st</sup> or February 28<sup>th</sup> at the ATC from 6:30-8:00.

CTE Advanced Technology Complex: All ATC Courses have fees and several GHS CTE courses have fees.

Information may change - For the most up to date information reference the Course Selection Catalog for 2017-2018

| Academic Credit for CTE Options                      |  | DISD CTE Contact Information:  |
|--|--|--|
| Science  | Math                                       | Jeanie Bragg, GHS Career Counselor<br><u>ibragg@dentonisd.org</u> (940)369-1033<br>Carla Ruge, DISD CTE Director<br><u>cruge@dentonisd.org</u> (940)369-4852         |
| Food Science (12) (1)                                | Accounting II (11-12) (1)                  |  |
| Allied Health Anatomy & Physiology<br>(12) (1) (ATC) | Fine Arts                                  |  |
| Advanced Animal Science<br>(11-12) (1)               | Floral Design (10-12) (1)                  | DISD Advanced Technology Complex<br>(940)369-4850<br>Marcus Bourland, ATC Principal<br>mbourland@dentonisd.org<br>Susan Reyes, ATC Counselor<br>sreyes@dentonisd.org |
| Engineering Design & Problem Solving (12) (1) (ATC)  | Speech                                     |  |
| Forensic Science (12) (1) (ATC)                      | Professional Communications<br>(9-12) (.5) |  |
| Allied Health Pathophysiology (12) (1) ATC           |  |  |
| Engineering Science (11-12) (1)                      |  |  |

Listed below are the new CTE Course descriptions for more information and a complete list of courses visit the Course Selection Catalog online.

### **Business and Industry Endorsement**

# Principles of Arts, Audio/Video Technology and Communications

Grade Placement ..... 9-12 Credits ....... 1 Prerequisite ...... None

Through the study of digital and interactive media and its application in information technology, students will analyze and assess current and emerging technologies, while designing and creating multimedia projects that address customer needs and resolve problems. Students implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. The knowledge and skills acquired and practiced will enable students to successfully perform and interact in a technology-driven society. Students enhance reading, writing, computing, communication, and critical thinking and apply them to the information technology environment.

# **HVAC Dual Credit Program**

#### Grade Placement ..... 11-12 Credits ...... 2 Prerequisite ...... None

Students will gain knowledge and skills needed to enter the industry as a HVAC Technician Students will acquire knowledge and skills in safety, electrical theory, HVAC tools, building codes, installation of commercial HVAC equipment, heat pumps, building science, troubleshooting techniques, various duct systems, and maintenance practices. Students will have the opportunity to test for their HVAC Technician Level 1 and EPA 608 Certification This course is a dual credit Program offered with NCTC. The courses students will register for are HART 1307, 1301, 1256, 1341 and RBPT 1300. Students will be required to provide their own transportation to Ryan High School.

# **Introduction to Culinary Arts**

#### Grade Placement ..... 10-12 Credits ...... 1 Prerequisite ...... None

Introduction to Culinary Arts will provide a foundation in basic food production, nutrition and sanitation, and management and services. As part of the instruction, reinforcement of basic skills is provided to assist students in practicing communication skills, utilizing listening skills to follow directions, practicing basic math skills as applied to a culinary arts setting. Students will gain insight into a careers in the Hospitality and Tourism field.

# **Restaurant Management Practicum**

Grade Placement ..... 11-12 Credits ...... 2 Prerequisite ...... None Location .....Advanced Technology Complex

#### Partnership ...... Texas Restaurant Association and Greater Dallas Restaurant Association.

Restaurant Management introduces students to the basic management techniques and administrative practices and procedures of the restaurant and food service industry. This course focuses on the following areas of study: food preparation, food purchasing, food and beverage cost control, sanitation and safety, customer service, human resource management, beverage management, hospitality marketing and dining room management services.

### **Political Science I**

# Grade Placement ..... 11-12 Credits ..... 1 Prerequisite ...... None Location ...... Advanced Technology Complex

Political Science course introduces students to the political theory through the study of governments; public policies; and political processes, systems and behaviors. The student learns to independently collect and critically analyses information about politics, and to argue comparative politics.

# **Criminal Investigation**

# Grade Placement ..... 11-12 Credits ... 1 (Accelerated: Double Blocked for One Semester) Prerequisite ... None Location ...... Advanced Technology Complex Partnerships ........... Denton Police Station

Criminal Investigations course will focus on basic functions of criminal investigations and procedures. Students will learn terminology, and investigating processing, evidence collection, fingerprinting, and courtroom presentation. Students will collect and analyze evidence from a simulated crime scene.

### **Practicum in Health Science**

#### Grade Placement ..... 12 Credits ... 2

# Emergency Medical Technician (Dual Credit Program) (Senior Only) Started 2017-18 School Year Prerequisite: Principles of Health Science, (Health Science will be a prerequisite starting in 2017-18)

This course provides an introduction to the normal structure and function of the body, including an understanding of body systems in maintaining homeostasis with principles of microbiology also included. The course uses a method of instruction providing detailed education, training and work-based experience, and direct patient/client care, generally at a clinical site. Instruction includes all the skills necessary to provide emergency medical care at a basic life support level with an ambulance service or other specialized services. The Emergency Medical Technician (EMT) courses provides instruction to prepare students for EMT certification. This course is a dual credit program offered with NCTC . The courses students will register for are VNSG 1420, EMSP 1160 & 1501. The EMT curriculum is based on the National EMS Educational Standards.

# Allied Health Pathophysiology

#### Grade Placement ..... 12 Credits .... 1 Prerequisite ...... Biology and Chemistry

#### Location ...... Advanced Technology Complex Partnerships ...... North Central Texas College

The pathophysiology course is designed for students to make informed decisions using critical thinking and scientific problem solving, Students in this class will study disease processes and how humans are effected. Emphasis is placed on prevention and treatment of disease. Students will differentiate between normal and abnormal physiology. This course counts as a Science credit.

#### Introduction to Cosmetology/Principles of Cosmetology Design/Color Theory

#### Grade Placement ..... 10-12 Credits .... 2 Prerequisite ...None

#### Location ..... Advanced Technology Complex

This course will provide a foundation of academic, career and technical skills needed to be successful in the Cosmetology field. The students in this course will develop knowledge and skills regarding various cosmetology design elements, sanitation procedures, hair care, nail care, skin care and work place skills. Students will begin to earn hours toward their state licensing requirements.

# STEM Endorsement

#### Robotics I - (Project Lead The Way Engineering Sequence)

# Grade Placement ..... 11-12 Credits .... 1 Prerequisite ... Introduction to Engineering Design/Digital Electronics Location ..... Advanced Technology Complex

Partnerships ... University of North Texas Engineering Department, Bell Helicopter, Batteries Plus

Robotics 1 course was designed to introduce the students to the fundamentals of problem solving, program design, algorithms and programming using a high-level language. This course introduces the fundamental concepts of programming and robotics. Programming and building robots applies science, technology, engineering and math (STEM) concepts. Students will have the opportunity to complete multiple challenges involving guided research, problem solving, working in teams, and design documentation.

# Engineering Science (Project Lead The Way Engineering Sequence)

#### Grade Placement ..... 11-12 Credits ..... 1 (Accelerated: Double Blocked for One Semester) Prerequisite .... IED, DE, Robotics

Location ..... Advanced Technology Complex

Partnerships ... University of North Texas Engineering Department, Bell Helicopter,

#### Batteries Plus

Engineering Science is designed to help students understand the field of engineering and engineering technology. Exploring various technology systems and manufacturing processes help students learn how engineers and technicians use math, science and technology in an engineering problem solving process to benefit people. The course also includes concerns about social and political consequences of technological change. Students will have the opportunity to test for university credit. The course counts as a 4th Science credit for graduation.

#### Engineering Design & Problem Solving (Project Lead The Way Engineering Sequence) Grade Placement ..... 12

Credits ..... 1 (Accelerated: Double Blocked for One Semester) (4th SCIENCE CREDIT) Prerequisite .... IED, DE, Robotics, Engineering Science, Algebra I and Geometry Location ..... Advanced Technology Complex

#### Partnerships ..... University of North Texas Engineering Department, Bell Helicopter, Batteries Plus

Engineering Design & Problem Solving is an applied physics course designed to provide a study in force, work, rate, resistance, energy, power and force transformers as applied to mechanical, fluid, thermal, and electrical energy. Students learn to apply principle theories to the design and development process through project-based lessons where they create a variety of projects to meet specific goals. The course counts as a 4th Science credit for graduation.

# Engineering Design & Presentation (Project Lead The Way Engineering Sequence)

Grade Placement ..... 12 Credits .... 1 (Accelerated: Double Blocked for One Semester) Prerequisite .... IED, DE, Robotics, Engineering Science, Engineering Design & Problem Solving

Location .... Advanced Technology Complex

#### Partnerships .... UNT Engineering Department, Bell Helicopter, Batteries Plus

Engineering Design and Presentation is the course that allows you to design a solution to a technical problem of your choosing. Now is the time to eliminate one of the "Don't you hate it when..." statements of the world. This course is an engineering research course in which you will work in teams to research, design, and construct a solution to an open-ended engineering problem. The product development lifecycle and a design process will be used to guide and help your team reach a solution to the problem. You and your team will present and defend your solution to a panel of outside reviewers at the end of the school year.

# **AC/DC Electronics**

Grade Placement ..... 11-12 Credits ...... 1 Prerequisite ...... Recommended: Digital Electronics Location ......Advanced Technology Complex

Partnerships ..... International Society of Certified Electronics Technicians (ISCET)

AC/DC Electronics focuses on the basic electricity principles of alternating current/direct current circuits. Students will demonstrate knowledge and applications of circuits, electronic measurement and implementation. Through the use of the design process, students will transfer academic skills to component design in project based environment.

# **Solid State Electronics**

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#### Partnerships ...... International Society of Certified Electronics Technicians (ISCET)

In Solid State Electronics, Students will demonstration knowledge and application of advanced circuits, electronic measurement, and electrical implementation used in the electronics and computer industries. Students will transfer advanced academic skills to apply engineering principles and technical skills to troubleshoot, repair and modify electronic components, equipment, and power 16 electronic systems in a project based learning environment.

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