

Academy of Healthcare & Dental Assisting

Providing the foundation for those aspiring to be in the health care industry whether that be as doctors, nurses, veterinarians, dental assistants, and dental hygienists, etc.

Health Care

Provides students an opportunity to focus on the healthcare field. Students will study the various body systems and how they work together to make the body function. They will clarify their understanding of the body and how to perform routine tasks that a CNA (Certified Nursing Assistant) would perform in the healthcare field.

Dental Assisting

Provides students an opportunity to focus on the dental aspect of the healthcare field (i.e. dentistry, orthodontics, periodontics, etc.). Students will study the various body systems and how each of them relates to the mouth and teeth. They will clarify their understanding and knowledge of the mouth and learn skills required of dental assistants.

Course Number	Course Name	Course Number	Course Name
250003	Healthcare Career Explorations (10 th)	250003	Healthcare Career Explorations (10 th)
490007	Foundations of Health (11 th)	490024	Foundations of Health (11 th)
490023	Therapeutic Services (11 th)	490015	Human Body Structures (11 th)
490014	Health Science Internship (12 th)	490012	Dental Assisting Internship (12 th)

Academy of Industry & Engineering

Providing the foundation for those students aspiring to go into the ever growing engineering fields in a post-secondary institution, as well as those who are aimed at learning a trade and going straight into the workforce after high school.

PLTW – Engineering

Project Lead the Way (PLTW) is a curriculum that was formulated by engineers of all disciplines (mechanical, electrical, civil, chemical, etc.) who are in the field. The courses that they formulated get students acquainted with the ways that engineers go through a process (The Design Process) from start to finish, how they take simple sketches to more technical drawings, then turn that drawing into a CAD drawing, then even build it in three dimensions. The CAD (computer-aided design) program used, AutoDesk Inventor, is a mix of the two most widely used CAD programs in the field – AutoCAD and Solid Works, therefore giving students an advantage in post-secondary institution courses.

Course Number	Course Name
560015	Introduction to Engineering Design (IED)
560016	Principles of Engineering (POE)
560009	Aerospace Engineering (AE)

Bryant Career Technical Center

(The “Industry” Pathway in Industry & Engineering Academy)

The mission of the Bryant Career Technical Center is to prepare students to be productive citizens who are equipped with the skills, attitudes, knowledge, and work habits needed to move from high school to the workplace in a chosen career pathway and/or post-secondary education.

Agricultural Mechanical Engineering (10th) <i>Students learn the repair and maintenance of farming machinery and small engines. Classroom and shop experiences are combined to allow students to learn to use hand tools and other devices in the performance of maintenance and repair work.</i>		Automotive Technology (DE) (11th) <i>Students are introduced to the automotive repair field by using up-to-date diagnostic test equipment. First and second year students are involved in a great deal of hands-on work.</i>	
Course Number	Course Name	Course Number	Course Name
410022	Residential and Commercial Power Equipment	570071	Maintenance & Light Repair A
410001	Two & Four Stroke Engines	570072	Maintenance & Light Repair B
410002	Power Equipment Technology	570073	Maintenance & Light Repair C
420023	Forestry Equipment	570074	Maintenance & Light Repair D
Aviation Technology (DE) (10th) <i>Students are introduced to the field of aviation maintenance. Topics include aerodynamics, engine systems, flight controls, sheet metal fabrication, and welding. Students are prepared to enter an approved technical school to receive Airframe and Power Plant Licensure.</i>		Computer Electronics Technology (10th) <i>Students learn the fundamentals of electricity and electronics through lecture and experimentation. Students will cover a broad range of topics from basic electronics to computer fundamentals and repair.</i>	
Course Number	Course Name	Course Number	Course Name
921603	AMT 102 Materials and Process	520005	Information Technology Fundamentals
921605	AMT 111 Sheet Metal Structures	410018	Information Technology Support & Services
		520021	Networking I
		520022	Networking II
Construction Technology (10th) <i>This course explores the basic fundamentals of building and construction trades. Basic carpentry skills are utilized to construct group and individual hands-on shop projects. Measuring, cutting with power tools, and project assembly involve the student with beneficial real work experiences.</i>		Cosmetology (11th) <i>Students will have the opportunity to learn all phases of cosmetology. Hours received in his program count toward the 1200 hours required by the State Board Exam for licensing.</i>	
Course Number	Course Name	Course Number	Course Name
432301	NCCER Carpentry 1	510060	Introduction to Cosmetology
410007	Construction Framing	510062	Chemical Services
432302	NCCER Carpentry 2	510061	Hair Coloring
430030	Carpentry I	510065	Salon Practices & Management
Electrical Technology (11th) <i>This program provides classroom and laboratory experience in current and emerging electrical technology to prepare students to enter employment and further training. The National Electrical Code (NEC) is incorporated throughout the program.</i>		Health Science Technology (11th) <i>This program provides opportunities for occupational investigation, career decision-making, and entry-level skill training in health careers. Individualized occupational training is offered to second term students in various entry-level health careers. Students can receive their Certified Nursing Assistant (CNA) Certificate.</i>	
Course Number	Course Name	Course Number	Course Name
430051	Basic Wiring	490007	Foundation of Health Science
432502	NCCER Electrical Technologies 2	490023	Therapeutic Services
430050	Electrical Technology	490014	Health Science Internship
432501	NCCER Electrical Technology 1		

Heating, Ventilation, Air Conditioning, & Refrigeration (DE)¹⁰ <i>Heating, Ventilation, Air Conditioning, & Refrigeration provides classroom and laboratory experiences utilizing current and emerging technologies. Students are taught to perform installations, repairs, and maintenance of commercial, industrial, and domestic air conditioning systems.</i>		Horticulture/Floriculture (10th) <i>Students learn the art and science of landscaping. Curriculum includes landscape design, construction and maintenance, plant, insect, and disease identification, plant science and propagation, nursery and greenhouse management, and starting a business.</i>	
Course Number	Course Name	Course Number	Course Name
430121	Intro to HVAC	420051	Horticulture Science
432601	NCCER HVAC 1	420022	Urban Forestry
432602	NCCER HVAC 2	420054	Greenhouse Production & Management
430123	HVAC Maintenance	420055	Nursery Production & Management
Industrial Systems & Maintenance (10th) <i>This program prepares students for a career in industrial plant operations and maintenance. Chemical plants, paper mills, and power generating facilities offer excellent wages and benefits packages, long-term secure employment, and rewarding careers.</i>		Plumbing & Pipefitting Technology (10th) <i>Classroom, shop, and live work experiences are combined to prepare students for entry into the field of plumbing/pipefitting. Employment opportunities include construction/maintenance of home and small commercial buildings or shipyard/industrial plumbing and pipefitting.</i>	
Course Number	Course Name	Course Number	Course Name
542521	NCCER Industrial Systems & Main. Mechanical 1	430091	Plumbing/Pipefitting 1
540011	Industrial Systems & Maintenance I	430092	Plumbing/Pipefitting 2
542522	NCCER Industrial Systems & Main. Mechanical 2	430093	Plumbing/Pipefitting 3
540012	Industrial Systems & Maintenance II	430129	Senior Career Pathway
Sports Turf Management (10th) <i>Students are prepared for sports turfgrass careers. Topics include career opportunities, safety, turfgrass growth, turfgrass management, sports fields, turfgrass tools and equipment, business management, and technology.</i>		Welding Technology (DE) (11th) <i>Students learn the properties of metal, blueprint and welding symbols reading, and hands-on welding techniques. Welders are employed in the manufacturing industries making durable goods such as transportation equipment and fabrication of metal products.</i>	
Course Number	Course Name	Course Number	Course Name
420056	Sports Turfgrass Production & Management	432901	NCCER Welding 1
420057	Landscaping Design & Management	430070	Introduction to Welding
420072	Agribusiness	432902	NCCER Welding 2
420059	Residential Landscaping	430071	Applied Welding I w/ PAC

Academy of Business and Leadership

Providing business and leadership skills necessary to be competitive in today's job market.

Business, Management, & Administration

Students will gain the fundamental knowledge and skills for careers in planning, organizing, directing, and evaluating business functions essential to efficient and productive business operations. In addition, students learn ways in which technology, globalization, and regulatory issues affect the day-to-day operation of businesses.

JROTC

For students interested in building leadership skills, the JROTC program is in place to motivate young people to be better citizens. In addition to the emphasis placed on citizenship and leadership, the curriculum incorporates Health/Wellness, Basic First Aid, CPR, Drug Abuse Prevention, Presidential Physical Fitness Program, American History, Techniques of Communications, Safety, Human Relations, Technology Awareness and Career Opportunities.

Course Number	Course Name	Course Number	Course Name
450006	Business Technology Applications	480041/480045	AJROTC 1/1B
450031	Advanced Business Technology Applications	480042/480046	AJROTC 2/2B
410016	Multimedia Design	480043/480047	AJROTC 3/3B
400122/400133 /40032	Work Based Learning	480044/480048	AJROTC 4/4B

Fashion & Merchandising

Fashion Merchandising is a pathway designed to offer students an opportunity to gain knowledge and develop skills related to the growing Fashion industry. In the Fashion and Merchandising pathway, students learn how to sew, monogram, cut vinyl, among many other skills needed for the fashion trade.

Leadership

Students will be inspired and equipped to be leaders in the school, the community, and in every area of their lives. Courses teach students leadership skills and principles through a unique blend of traditional classroom methods, project based learning, and hands on experiences. Topics include teamwork, communication, ethics, and strategic planning, and the curriculum includes opportunities for community service.

Course Number	Course Name	Course Number	Course Name
510004	Family and Consumer Science (FACS)	802206	Leadership 1
510044	Fashion Design	802206ac	Leadership 2
410015	Fashion Merchandising	802208	Community Service 1 (Leadership 3)
470050	Fashion Entrepreneurship	802208aa	Community Service 2 (Leadership 4)

The Arts & Humanities

Providing an interdisciplinary approach to learning.

Honors, Advanced Placement, & Dual Enrollment

Students may choose to take the more rigorous courses required for the Honors, Advanced Placement, and Dual Enrollment pathway to adequately prepare for success at post-secondary institutions of learning.

Course Number	Course Name	Course Number	Course Name
230022	AP US History 1877 to Present	270023aa	French 1
230029	AP European History	270023ab	French 2
230062	AP Human Geography	270025	French 3
230072	AP Psychology	270027	French 4
200016	AP English 11	270153aa	Spanish 1
903201	DE English 12	270154aa	Spanish 2
210020ab	DE Pre - Calculus	270155	Spanish 3
220064	AP Chemistry	270158	Spanish 4
270158	AP Spanish	270043	German 1
210025	AP Calculus	270044	German 2
280102	AP Art	270045	German 3
520018	AP Computer Science	270047	German 4
230071ab	Psychology	230032ae	Holocaust
230081	Sociology		

Performing/Visual Arts

For students who are interested in more creative forms of artistic expression.

Course Number	Course Name	Course Number	Course Name
280031ac	Concert Band 1	280093ab	Art 1
280033aa	Concert Band 2	280094aq	Art 2
280035aa	Concert Band 3	280094	Art 3
280033ad	Concert Band 4	280094aa	Art 4
280031ab	Marching Band 1	200036ag	Drama 1
280033	Marching Band 2	200036ar	Drama 2
280035	Marching Band 3	200036as	Drama 3
280033ac	Marching Band 4	200036at	Drama 4
280031ad	Symphonic Band 1	802202ab	Journalism 1
280033ab	Symphonic Band 2	802202af	Journalism 2
280035ab	Symphonic Band 3	802202ai	Journalism 3
280033ac	Symphonic Band 4	802202aj	Journalism 4
280051	Beginning Chorus	200033aa	Creative Writing
280053ac	Intermediate Chorus	200043	Public Speaking
280057ab	Adv Chorus I	200036ax	Shakespeare
280057ac	Adv Chorus II	200026	Mythology

*History and Literature electives may be taken in any sequence but cannot be repeated for credit (with the exception of Journalism). Many Arts & Humanities pathways can/will begin in the 9th grade.