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Business & Industry Endorsement Agriculture, Food, and Natural Resources

Animal Science					
Levels	Courses				
Level 1	Principles of Agriculture, Food & Natural Resources 1101CT / 9-12				
	Small An		ent AND Equine	Science	
Level 2		1114CT & 11	13CT / 9-12		
		Courses must be	*		
Level 3		Livestock I 1115CT			
Level 4	Advanced Animal Science 1116CT / 11-12 Prerequisite: Biology, Chemistry or IPC, Geometry, AND Small Animal/Equine Science or Livestock Production Science Credit	Veterinar Applic 1140CA-C Prerequisite: Sma Science or Lives AND Select +Certified Veter Lev	y Medical ations B / 11-12 Il Animal/Equine tock Production ion Process inary Assistant,	Practicum in Agriculture, Food & Natural Resources 1135CA-CB / 11-12	
	Applied Agricu	ultural En	gineering		
Levels		Cou			
Level 1	Principles o	Principles of Agriculture, Food & Natural Resources 1101CT / 9-12			
. 1.	Agricultural Mechanics & Metal Technologies				
Level 2		1122CT OSHA 10-Hour Cer			
	OSHA 10-Hour Certification Possible Agricultural Structures Design & Fabrication				
Level 3		1123CT	/ 11-12		
	Prerequisite: Agricultural Mechanics & Metal Technologies Practicum in Agriculture, Food & Natural Resources				
Level 4	Practicum	in Agriculture, 1135CA-C		Resources	
	Environmental			S	
Levels		Cou	rses		
Level 1	Principles o	o f Agriculture, 1101CT	Food & Natural	Resources	
_ 1	Wildlife, Fisheries & Ecology	Management	Forestry &	Woodland Ecology Systems	
Level 2	1103CT / 9-12	an Dassible	,	1120CT / 10-12	
Level 3	TPW Hunter Safety Certification Possible 11200171012 No courses offered at Level 3 in this program of study			m of study	
Level 4	Practicum in Agriculture, Food & Natural Resources				
Level 4	1135CA-CB / 11-12				
Plant Science					
Levels		Cou			
Level 1	Principles of Agriculture, Food & Natural Resources 1101CT / 9-12				
Level 2		offered at Level	2 in this progra	m of study	
Level 3	Floral Design 1110CT / 9-12 Fine Arts Credit		Но	rticulture Science 1109CT / 10-12	

	+Texas State Floral Association Floral Skills Knowledge Based Certification Possible		+Commercial/Noncommercial Pesticide Applicator Certification Possible	
Level 4	Advanced Flo 1124CT	oral Design	Practicum in Agricult Resou	ture, Food & Natural
Lever4	Prerequisite: F		1135CA-CB / 11-12	
1 Semester Home Campus	2 Semester Home Campus	1 Semester Ben Barber	2 Semester Ben Barber	College Course Weighted Credit
		Level I Courses		
PRINCIPLES OF AGRICULTURE, FOOD & NATURAL RESOURCESPlacement: 9-12Prerequisite: Strongly recommended as 1st course in Agriculture Course: 1101CTLength: 18 weeks				
their lives on a daily b additionally students ar Students must keep an	ents an opportunity to exp asis. The foundation for tr e introduced to important online record of skills and e class to extend student lea	uly understanding all tha life skills including record knowledge about agricult	it agriculture encompasses l keeping, leadership and m	s is laid in this class and neeting room procedures.
		Level II Courses		
SMALL ANIMAL MANA Course: 1114CT & 1113	GEMENT/EQUINE SCIENCE CT	Credits: 1		Placement: 9-12 Length: 18 weeks
Small Animal Management is a course that educates and encourages responsible pet ownership. This course prepares students for potential careers related to small animal care, including but not limited to: veterinarians, veterinarian technicians, animal caretakers, pet breeders and owners, groomers, boarders, etc. This course is designed to be hands-on and includes people/animal interactions. Students will learn about careers related to the field and receive practical training in tasks applicable to any pet owner. Suggested small animals which may be included in the course of study include, but are not limited to, small mammals, amphibians, reptiles, avian, dogs and cats. Equine Science is an entry level animal science course that covers topics related to the equine industry. Topics include: anatomy, reproduction, careers, nutrition, grooming, selection, tack and trailer safety. These courses must be taken together .				
AGRICULTURAL MECH	ANICS & METAL TECHNOL	OGIES Credits: 1		Placement: 10-12 Length: 18 weeks
Students enrolled in this course will be exposed to careers in agricultural power, structural and technical systems. This course i designed to develop an understanding of agricultural mechanics as it relates to safety and skills in tool operation, electrica wiring, plumbing, carpentry, fencing, concrete and metal working techniques. Certification Possible: OSHA 10 hours*				al systems. This course is
WILDLIFE, FISHERIES & Course: 1103CT	LIFE, FISHERIES & ECOLOGY MANAGEMENT se: 1103CT Credits: 1			Placement: 9-12 Length: 18 weeks
Students will be prepared for careers in natural resource systems. Students need to attain academic skills and knowledge, acquire technical knowledge in skills related to natural resources, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. This course examines the management of gain and non-gain wildlife species, fish, and aqua crops and their ecological needs as related to current agriculture practices. Certification Possible: Texas Parks & Wildlife Hunter Safety*				
FORESTRY & WOODLAN Course: 1120CT	ND ECOSYSTEMS	Credits: 1		Placement: 10-12 Length: 18 weeks
This course examines current management practices for forestry and woodlands. Special emphasis is given to management as it relates to ecological requirements and how these practices impact the environment. Includes exploration of careers associated with the forestry system, tree identification, calculating tree harvest and a study of the forest ecosystem.				

	Level III Courses			
LIVESTOCK PRODUCTION Course: 1115CT	Credits: 1	Placement: 10-12 Length: 18 weeks		
knowledge and skills related to anim requirements, and industry standards. T their knowledge and skills in a varie technological dimensions of livestock	eld of animal science, students need to attain a nal systems, and develop knowledge and skills To prepare for success, students need opportuniti ety of settings. This course examines the int k production. Instruction is designed to allow through field and laboratory experiences.	s regarding career opportunities, entry ies to learn, reinforce, apply and transfer errelatedness of human, scientific and		
AGRICULTURAL STRUCTURES DESIGN Prerequisite: Agricultural Mechanics Course: 1123CT		Placement: 11-12 Length: 18 weeks		
	ortunities, entry requirements, and industry e systems, students must attain knowledge and			
FLORAL DESIGN Course: 1110CT	Credits: 1	Placement: 9-12 Length: 18 weeks		
Floral Design is a fun, hands-on course where students create beautiful, artistic designs using flowers. Students will learn the elements and principles of design and the basics of business involved in running a flower shop and other floral related industries. This course can be used as a Fine Arts Credit . Certification Possible: +Texas State Floral Association Floral Skills Knowledge Based *				
HORTICULTURE SCIENCE Course: 1109CT	Credits: 1	Placement: 10-12 Length: 18 weeks		
To be prepared for careers in horticultural systems, students need to attain academic skills and knowledge, acquire technical knowledge and skills related to horticulture and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements and industry expectations. This course is designed to develop an understanding of common horticultural management practices as they relate to food and ornamental plant production. Certification Possible: +Commercial/Noncommercial Pesticide Application*				
Level IV Courses				
ADVANCED ANIMAL SCIENCE Prerequisite: Biology, Chemistry & II Course: 1116CT	PC, Geometry AND Small Animal/Equine Scien Credits: 1	Placement: 11-12 ce OR Livestock Production Length: 18 weeks		
This course will build on the skills learned in Animal Science. Students will learn disease management in domesticated animals including treatments such as vaccinations and medications. Emphasis in this course is placed on the inter relatedness of human, scientific and technological dimensions of livestock production. Students interested in Veterinary Technician, Veterinarian Medicine or Agriculture Science Education as a career should take this class. Note: Course can be used as an additional science credit for graduation.				
VETERINARY MEDICAL APPLICATION Prerequisite: Small Animal/Equine S Course: 1140CA-CB	S cience OR Livestock Production AND Selection Credits: 2	Placement: 11-12 1 Process Length: 36 weeks		
For careers in the field of animal science, students need to attain academic skills and knowledge, acquire technical knowledge and skills related to animal systems and the work place, and develop knowledge and skills regarding career opportunities, entry requirements and industry expectations. Topics covered in this course include, but are not limited to, veterinary practices as they relate to both large and small animal species. Certification Possible: +Certified Veterinary Assistant, Level 1*				

PRACTICUM IN AGRICULTURE, FOOD & NATURAL RESOURCES Course: 1135CA/CB Credits: 2

The practicum is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experiences such as employment, independent study, internships, assistantships, mentorships or laboratories. **If a student does not have transportation, opportunities will be limited.**

ADVANCE FLORAL DESIGN Course: 1124CT

Credits: 1

Placement: 11-12 Length: 18 weeks

In this course, students build on the knowledge from the Floral Design course and are introduced to more advanced floral design concepts, with an emphasis on specialty designs and specific occasion planning. This course focuses on building skills in advanced floral design and providing students with a thorough understanding of the design elements and planning techniques used to produce unique specialty floral designs that support the goals and objectives of a specific occasion or event. Through the analysis and evaluation of various occasion and event types, students explore the design needs and expectations of clients and propose and evaluate appropriate creations. From conception to evaluation, students are challenged to create and design appropriate specialty floral designs that meet the needs of the client. Furthermore, an emphasis on budgetary adherence and entrepreneurship equips students with many of the necessary skills needed for success in floral enterprises.

Notes on agriculture science and technology courses:

The State Board of Education course requirements include a Supervised Agriculture Experience project for all courses. The Supervised Agriculture Experiences (SAE) must relate directly to the course in which the student is enrolled or has completed. The program will continue to be as flexible as possible in regards to SAE projects. Students enrolled in any and all Agricultural Science courses are provided the opportunity for membership in the FFA, the nation's largest youth leadership organization. Students are expected to meet membership requirements. Financial assistance is available to students who possess such need. FFA is an integral part of the curriculum of Agriculture, Food, and Natural Resources.

*Students must successfully pass certification test(s) in order to receive the certification. +Industry Based Certification



Business & Industry Endorsement Architecture & Construction

Architectural Design				
Levels	Courses	Supporting Courses		
Level 1	Principles of Architecture 1819CT / 9-12			
Level 2	Architectural Design I 1660CT / 10-12 Prerequisite: Principles of Architecture AND English I AND Algebra I	Interior Design I 1512A-B / 10-12 Prerequisite: Algebra I AND English I		
Level 3	Architectural Design II 1665CA/CB / 11-12 Prerequisite: Architectural Design I AND Geometry +Autodesk Certified User in Revit Architecture Certification Possible	Civil Engineering & Architecture (PLTW) 1861CT / 10-12 Prerequisite: Principles of Engineering Weighted Credit		
Level 4	Practicum in Architectural Design 1668CA/CB / 12 Prerequisite: Architectural Design II			
	Construction Technology	У		
Levels	Courses	Supporting Courses		
Level 1	Principles of Construction 1824CT / 9-12 +NCCER Core Certification Possible	Principles of Architecture 1819CT / 9-12		
Level 2	Construction Technology I 1820CA/CB / 10-12 Prerequisite: Principles of Construction Local Certification Possible	TCC CNBT 1300 Residential & Light Commercial Blue Print Reading 0194 / 10-12 Prerequisite: No TSI Requirement TCC CNBT 1316 Construction Technology I 0195 / 10-12 Prerequisite: No TSI Requirement		
Level 3	Construction Technology II 1825CA/CB / 11-12 Prerequisite: Construction Technology I OSHA 10 Hour AND +NCCER Construction Tech Certification Possible	TCC CNBT 1110 Basic Construction Safety 0198 / 11-12 Prerequisite: No TSI Requirement TCC CNBT 1350 Construction Technology II 0199 / 11-12 Prerequisite: No TSI Requirement		
Level 4	Practicum in Construction Technology 1827CA/CB / 12 Prerequisite: Construction Technology II	Upon completion of all 4 TCC CNBT courses, students will earn a Residential/Commercial Site Layout & Framer Assistant Occupational Skills Award from TCC		
1 Semester Home2 Semester HCampusCampus	1 Semester Ben Barber 2 Seme	ester Ben Barber College Course Weighted Credit		

PRINCIPLES OF ARCHITECTURE Course: 1819CT	Credits: 1	Placement: 9-12 Length: 18 weeks		
Principles of Architecture provides an overvie management. Classroom studies include topics su systems, health, environment, leadership, teamwo include skills such as problem solving, critical thin	ch as safety, work ethics, communi ork, ethical and legal responsibility	ication, information technology applications, <i>y</i> , employability, and career development and		
PRINCIPLES OF CONSTRUCTION Course: 1824CT	Credits: 1	Placement: 9-12 Length: 18 weeks		
Principles of Construction is intended to provid construction or craft skilled areas. The course p and common hand and power tools. This course obtaining and maintaining employment. Possible Certification: +NCCER Core*	provides a strong knowledge of cor	nstruction safety, construction mathematics,		
	Level II			
ARCHITECTURAL DESIGN I Prerequisite: Principles of Architecture AND E Course: 1660CT	English I AND Algebra I Credit: 1	Placement: 10-12 Length: 18 weeks		
Architectural Design is an activity/project based technical course for students interested in architecture, interior design, construction, making use of measurements, perspectives and drawings. Students will study multiple activities and problem-solving using AutoCAD, CorelDraw, Word, Excel, Adobe, the Digital Camera, Laser, CNC Lathe. Additionally, students will study basic board drawing instruments, modeling, lettering and multiple drawing styles.				
CONSTRUCTION TECHNOLOGY I Prerequisite: Principles of Construction Course: 1820CA/CB	Credits: 2	Placement: 10-12 Length: 36 weeks		
Students gain knowledge and skills specific to those needed to enter the work force or build a foundation toward a postsecondary degree or certification in the career pathway of construction science, architecture or engineering. Students acquire knowledge and skills in safety, tool usage, building materials, codes and basic framing. Various models and projects will be designed and built throughout the semester. Communication and employability skills along with options for continuing education will be provided throughout the semester. Opportunities for industry-related certification modules are part of this curriculum.				
Students can earn a Certificate of Excellence by achieving a specific list of real world skills related to this course. For the list of skills, please visit goo.gl/9VM3a9				
TCC CNBT 1300 Residential & Light Commercial Blue Print Reading & TCC CNBT 1316 Construction Technology I can be taken concurrently with this class. There is no TSI requirement, but students must register and pay tuition by TCC deadline.				
	Level III			
ARCHITECTURAL DESIGN II Prerequisite: Architectural Design I AND Geon Course: 1665CA/CB	netry Credits: 2	Placement: 11-12 Length: 36 weeks		
In Advanced Architectural Design, students gain advanced knowledge and skills specific to those needed to enter a career in architecture and construction or prepare a foundation toward a postsecondary degree in architecture, construction science, drafting, interior design or landscape architecture. Advanced Architectural design includes the advanced knowledge of the design, design history, techniques and tools related to the production of drawings, renderings and scaled models for commercial or residential architectural purposes Possible Certification: +Autodesk Certified User in Revit*				

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CIVEL ENGINEERING & ARCHITECTURE · Prerequisite: Principles of Engineering Course: 1861CT

Civil Engineering & Architecture is the study of the design & construction of residential & commercial building projects. The course includes an introduction to many of the varied factors involved in building design & construction including building components & systems, structural design, storm water management, site design, utilities & services, cost estimation, energy efficiency & careers in the design & construction industry. This is a Project Lead the Way course.

CONSTRUCTION TECHNOLOGY II Prerequisite: Construction Technology I Course: 1825CA/CB

As a continuation of Construction Technology I, this course is an activity/project based technical course for students interested in continuing their construction or architecture career pathway. Students gain advanced knowledge and skills specific to those needed to enter the work force as carpenters or prepare for a postsecondary degree in construction science, architecture or engineering. Beginning with wall framing, students will develop skills in sequential building trades - plumbing, residential wiring and masonry. Students are introduced to exterior and interior finish-out skills. Communication and employability skills along with options for continuing education will be provided throughout the year. Possible Certification: +NCCER Construction Tech* Possible Certification: OSHA 10 Hour*

Credits: 2

TCC CNBT 1110 Basic Construction Safety & TCC CNBT 1350 Construction Technology II can be taken concurrently with this class. There is no TSI requirement, but students must register and pay tuition by TCC deadline.

	Level IV			
PRACTICUM IN ARCHITECTURAL DESIGN Prerequisite: Architectural Design II Course: 1668CA/CB	Credits: 2	Placement: 12 Length: 36 weeks		
Practicum in Architectural Design is an occupa design. Safety and career opportunities are inc maintain a project portfolio that documents ex projects and a professional resumé that should is letters of recommendation, record of work expe a student does not have transportation, oppor	cluded in addition to work ethics an xperience by using graphic or write include select educational and work eriences, licenses, and certifications;	nd architectural design study. Students will ten documentation of architectural-related history, professional references, appropriate		
PRACTICUM IN CONSTRUCTION TECHNOLOGY Prerequisite: Construction Technology II Course: 1827CA/CB	Credits: 2	Placement: 12 Length: 36 weeks		
This course is an internship and project-based technical course in best practices of construction and project management. This class includes design techniques and tools related to the management of architectural, engineering and construction projects. Students will establish their internship with an industry partner in a related field of study. Students must provide their own transportation to the internship. All internships will document the student's progress and participation as a significant part of the grade for this course. Students must also identify, design and successfully manage project specific criteria and present their final product to a panel of industry advisors. Career plans, employment opportunities and options for continuing education will be part of ongoing discussion. Industry-related certification modules from previous courses are eligible for completion. If a student does not have transportation, opportunities will be limited.				
Supporting Courses				
INTERIOR DESIGN (Home Campus Only) Prerequisite: Algebra I AND English I Course: 1512A/B	Credits: 1	Placement: 10-12 Length: 36 weeks		
Interior Design is an activity/project based techn making use of measurements, perspectives an AutoCAD, CorelDraw, Word, Excel, Adobe an instruments, modeling, lettering and multiple dr	d drawings. Students will study and digital cameras. Additionally,	multiple activities and problem solve using		

Placement: 10-12 Length: 18 weeks

Placement: 11-12

Length: 36 weeks

Credits: 1

TCC CNBT 1300 RESIDENTIAL & LIGHT COMMERCIA Prerequisite: Principles of Construction		Placement: 10-12 Length: 18 weeks		
Course: 0194	Credits: 1			
This course includes introductory blueprint reading fo Barber and is taught concurrently with Construction T		struction. Course offered at Ben		
TCC CNBT 1316 CONSTRUCTION TECHNOLOGY I Prerequisite: Principles of Construction Course: 0195	Credits: 1	Placement: 10-12 Length: 18 weeks		
This course is an introduction to site preparation foun Barber and is taught concurrently with Construction T		quipment. Course offered at Ben		
TCC CNBT 1110 BASIC CONSTRUCTION SAFETY		Placement: 11-12		
Prerequisite: Construction Technology I		Length: 18 weeks		
Course: 0198	Credits: 1			
This course is basic job site construction safety in resid Barber and is taught concurrently with Construction T		struction. Course offered at Ben		
TCC CNBT 1350 CONSTRUCTION TECHNOLOGY II		Placement: 11-12		
Prerequisite: Construction Technology I		Length: 18 weeks		
Course: 0199	Credits: 1	6		
This course is framing in residential and light commercial construction. Includes safety, tools, and equipment used in floor, wall, ceiling, and roof framing methods and systems. Course offered at Ben Barber and is taught concurrently with Construction Technology II (1825CB).				
Upon completion of all 4 TCC CNBT courses, studen Occupational Skills Award from TCC.	nts will earn a Residential/Commerc	ial Site Layout & Framer Assistant		
Weighted Credit *Students must successfully pass certification test(s) is	a order to receive the certification			

*Students must successfully pass certification test(s) in order to receive the certification. +Industry Based Certification



Business & Industry Endorsement Arts, Audio Video Technology & Communications

Design & Multimedia Arts

Design & Multimedia Arts							
Levels Courses							
Level 1	Principles of A Technology & Com 1890CT /	munications	128	Digital Media 80CT & 1280A & B/ 9-12 9-12		1269CT 9-12	
Level 2	Graphic Design I 1891CA-CB 10-12	Animation I 1897CA-CB 10-12		Commercial Photography I 1889CA-CB 10-12	Fashion Design I 1511A-B 10-12		Video Game Programming 1273CT 10-12 Prerequisite: Video
	+Adobe	Photoshop Certij	fication	Possible			Game Design
Level 3	Graphic Design II 1893CA-CB 10-12 Prerequisite: Graphic Design I +Adobe Illustrator Certification Possible	Digital Art & Animation 1053BB/10-12 Prerequisite: Anim I Fine Arts Credit 3D Modeling & Animation 1054BB/10-12 Prerequisite: Anim I +Adobe Animate Certification Possible Fine Arts Credit		Commercial Photography II 1888CA-CB 10-12 Prerequisite: Commercial Photography I Local Certification Possible	1 Prereq	on Design II 1516A-B 10-12 puisite: Fashion Design I	Advanced Video Game Programming 1274CT /10-12 Prerequisite: Video Game Programming Local Certification Possible
Level 4	Practicum in Graphic Design 1899CA-CB 11-12 Prerequisite: GD II +Adobe InDesign Certification Possible	Practicum in Animation 1898CA-CB 11-12 Prerequisite: Digital Art & Animation OR 3D Modeling & Animation		Practicum in Commercial Photography 1884CA-CB 11-12 Prerequisite: Commercial Photo II			
		Digit	al Co	ommunicatio	ns		
Levels				Courses			
Level 1	Principles of Arts, A/V Technology & Communications 1890CT / 9-12			Professional Communications 2246/ 9-12			
Level 2	1869CT / 9	Audio/Video Production I Dig 1869CT / 9-12		igital Audio Technology I 1880CT / 9-12Web Communications 1854 / 9-12			
Level 3	Audio/Video Production II 1871CA-CB / 10-12 Prerequisite: A/V Production I +Adobe Premiere Certification Possible		Digital Audio Technology II 1885CT / 10-12 Prerequisite: Digital Audio Technology I Local Certification Possible		ology I e		
Level 4	Practicum in Audio/Video Production 1873CA-CB / 11-12 Prerequisite: Audio/Video Production II TV Studio Production 1875CA-CB / 11-12		Prerequ Sport:	Practicum in Digital Audio Technology 1887CA-CB / 11-12 Prerequisite: Digital Audio Technology II Sports Broadcasting Practicum 1877CA-CB / 11-12		blogy II cicum	
	Prerequisite: Audio/Video Production II		. 11	Prerequ	usite: Dig	jital Audio Techno	nogy II

1 Semester Home Campus	2 Semester Home Campus	1 Semester Ben Barber	2 Semester Ben Barber	Ben Barber or Home Campus	
		Level I			
PRINCIPLES OF ARTS, AU Course: 1890CT	JDIO/VIDEO TECHNOLOG	GY & COMMUNICATIONS Credits: 1		Placement: 9-12 Length: 18 weeks	
	rious and multifaceted ca	esign & Multimedia Arts an reer opportunities in this			
DIGITAL MEDIA (Offered Course: 1280CT OR 1280		Credits: 1	Length: 18 week	Placement: 9-12 ts(BB) OR 36 weeks(HC)	
Students will develop beginner-intermediate skills in Adobe Creative Suite software including InDesign, Photoshop Extended, Acrobat Professional, Illustrator, and Fireworks. Become a multimedia, presentation master! In this course the students design and create original interactive computer generated multimedia projects and presentations. Students will learn to use digital cameras and scan and edit photographs. Students create animation and dynamic web content while learning about careers and the ethical, acceptable use of multimedia. Portfolio development, along with correct oral and written communication skills will be integral in all aspects of this course.					
VIDEO GAME DESIGN Course: 1269CT		Credits: 1		Placement: 9-12 Length: 18 weeks	
using drag and drop opti- real-world time managem	ions and scripting. Stude nent and many basic con	, video game design and de nts will also learn design, nputer and media technol reinforce basic skills. Top	teamwork, presentation p ogy skills. Other program	preparation and delivery, nming environment and	
PROFESSIONAL COMMU Course: 2246	NICATIONS (Home Camp	ous Only) Credits: 0.5		Placement: 9-12 Length: 18 weeks	
Professional Communications blends written, oral, and graphic communication in a career-based environment. Careers in globa economy require individuals to be creative and have a strong background in computer and technology applications, a strong and solid academic foundation, and a proficiency in professional oral and written communication. Within this context, students wil be expected to develop and expand the ability to write, read, edit, speak, listen, apply software applications, manipulate computer graphics, and conduct Internet research.					
		Level II			
GRAPHIC DESIGN & ILLU Course: 1891CA/CB	STRATION I	Credits: 2		Placement: 10-12 Length: 36 weeks	
This class will give students an opportunity to express and design creative ideas visually for a growing field. Commercial art concepts and design strategies will be explored using design principles and art elements for creating ads, logos, newsletters, magazine covers, illustrations and more. Students will learn to create and design artwork for projects using Adobe software. A final DVD with student artwork will be created for a digital portfolio. Possible Certification: +Adobe Photoshop*					
ANIMATION I Course: 1897CA/CB		Credits: 2		Placement: 10-12 Length: 36 weeks	
in multiple careers such visual impact. Design pri will be imported into anii	as entertainment, adverti inciples of animation will mations. Multiple file for ware will be used. A final	xplore computer animation sing commercials, medical be used for creating storyb mats and forms of animation DVD including animation v	and legal fields and othe oards to develop characte on will be discussed and ex	r areas wanting a strong rs and story lines. Sound plored, including 2D and	

COMMERCIAL PHOTOGRAPHY I		Placement: 10-12
Course: 1889CA/CB	Credits: 2	Length: 36 weeks
Students will develop an understanding of th Careers in commercial photography require products in a competitive market. Within thi Audio/Video Technology and Communication	e skills that span all aspects of the indu is context, students will develop knowled	stry from setting up a shot to delivering
Equipment Required: DSLR camera Possible Certification: +Adobe Photoshop*		
FASHION DESIGN I (Home Campus Only)		Placement: 9-12
Course: 1511A/B	Credits: 1	Length: 36 weeks
Fashion Design provides students with know develop an understanding of fashion and t knowledge of promotion, merchandising, appindustry.	the textile and apparel industry. Stude	nts in Fashion Design will gain a working
VIDEO GAME PROGRAMMING		Placement: 10-12
Prerequisite: Video Game Design Course: 1273CT	Credits: 1	Length: 18 weeks
Students will dive into the inner workings items, maps, and chests and eventually app work in the Visual Studio C#, Java programmi	lying customizations by altering and en	hancing the core game code. Students will
AUDIO/VIDEO PRODUCTION I Course: 1869CT	Credits: 1	Placement: 9-12 Length: 18 weeks
This course is designed to provide job-spec Students study video technologies, basic equ and visual storytelling. Students work ind equipment and software. Ultimately, studen production of MISD programs covering many	ipment operation, video composition, ba lividually and in groups to create vid its will create a "Demo DVD" of their wor	asic lighting and audio production planning eo projects utilizing professional editing rk. Students will also be responsible for the
DIGITAL AUDIO TECHNOLOGY I Course: 1880CT	Credits: 1	Placement: 9-12 Length: 18 weeks
This is an introductory course exploring the F of radio, FCC rules and regulations, audio e opportunity to write, edit and produce his (KMAN-FM).	diting, commercial production and on-a	ir broadcasting. Each student will have an
WEB COMMUNICATIONS (Home Campus Or	nlv)	Placement: 9-12
Course: 1854	Credit: 0.5	Length: 18 weeks
Students will acquire knowledge of web co- course in web communications. The six stra and information fluency; critical thinking; pr and concepts.	nds include creativity and innovation; c	communication and collaboration; research
	Level III	
GRAPHIC DESIGN & ILLUSTRATION II Prerequisite: Graphic Design & Illustration Course: 1893CA/CB		Placement: 10-12 Length: 36 weeks
This advanced class will provide opportunitie illustration field. Students will illustrate thei		

will create commercial artwork, ads, logos, poste aspects of careers in the growing field of advertisin Possible Certification: +Adobe Illustrator*		nd packaging for 3D designs. Students will explore ons industry		
DIGITAL ART & ANIMATION Prerequisite: Animation I Course: 1053BB	Credits: 1	Placement: 10-12 Length: 18 Weeks		
Animation has applications in many careers, communications, illustration, character develop	including graphic design ment, script writing, sto ion, film, and game indus	eated with digital imaging software. Digital Art and a advertising, web design, animation, corporate bryboarding, directing, producing, inking, project tries. Students in this course will produce various Credit.		
3D MODELING & ANIMATION Prerequisite: Animation I Course: 1054BB	Credits: 1	Placement: 10-12 Length: 18 Weeks		
3-D Modeling and Animation consists of compu Modeling and Animation has applications in ma	uter images created in a my careers, including crin esign; and the movie and g	virtual three-dimensional (3-D) environment. 3-D minal justice, crime scene, and legal applications; ame industries. Students in this course will produce Arts Credit.		
COMMERCIAL PHOTOGRAPHY II Prerequisite: Commercial Photography I Course: 1888CA/CB	Credits: 2	Placement: 10-12 Length: 36 weeks		
Careers in commercial photography span all aspects of the industry from setting up a shot to delivering products in a competitive market. Within this context, in addition to developing advanced technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an advanced technical understanding of the commercial photography industry with a focus on producing, promoting and presenting professional quality photographs.				
Equipment Required: DSLR camera				
★ Students can earn a Certificate of Excellence list of skills, please visit <u>goo.gl/9VM3a9</u>	by achieving a specific list	of real world skills related to this course. For the		
FASHION DESIGN II (Home Campus Only) Prerequisite: Fashion Design I Course: 1516A/B	Credits: 1	Placement: 10-12 Length: 36 weeks		
addition to developing technical knowledge ar	nd skills needed for suc	extile and apparel industries. Within this context, in cess in the Arts, Audio/Video Technology, and erstanding of the fashion industry with an emphasis		
ADVANCED VIDEO GAME PROGRAMMING Prerequisite: Video Game Programming Course: 1274CT	Credits: 1	Placement: 10-12 Length: 18 weeks		
This course give students the opportunity to dive further into game development in a mobile environment and provide them with the real world processes and systems used in the creation of games and simulations. Students will work in the Android and Java environments.				
★ Students can earn a Certificate of Excellence list of skills, please visit goo.gl/9VM3a9	by achieving a specific list	of real world skills related to this course. For the		
AUDIO/VIDEO PRODUCTION II Prerequisite: Audio/Video Production I		Placement: 10-12 Length: 36 weeks		

to utilize for acceptance to various colleges, trade schools and internships. Possible Certification: +Adobe Premiere* DIGITAL AUDIO TECHNOLOGY II Prerequisite: Digital Audio Technology I Course: 1885CT Credits: 1 In this advanced course, students will be responsible for the day-to-day operation of the district's radio station, KMAN-FM. All programming will be written, edited and produced by the students for airing on a daily schedule. Students will also be responsible for covering many events including plays, sporting events and newsworthy stories that take place within MISD. Students will continue to develop their interviewing skills, on-air personality and commercial sales abilities. Demo reels will be produced for each student for possible consideration of internships with local radio stations. Students also have the opportunity to compete in Skills USA competitions. Students can earn a Certificate of Excellence by achieving a specific list of real world skills related to this course. For the list of skills, please visit goo.gl/9VM3a9 Level IV **PRACTICUM IN GRAPHIC DESIGN & ILLUSTRATION** Prerequisite: Graphic Design & Illustration II Course: 1899CA/CB Credits: 2 Careers in graphic design and illustration span all aspects of the advertising and visual communications industry. Within this context, in addition to developing technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop a technical understanding of the industry with a focus on skill proficiency. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities. If a student does not have transportation, opportunities will be limited. Possible Certification: +Adobe InDesign* PRACTICUM IN ANIMATION Prerequisite: Digital Art & Animation OR 3D Modeling & Animation Course: 1898CA/CB Credits: 2 Careers in animation span all aspects of the advertising and visual communications industry. Within this context, in addition to developing technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop a technical understanding of the industry with a focus on skill proficiency. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities. If a student does not have transportation, opportunities will be limited. PRACTICUM IN COMMERCIAL PHOTOGRAPHY Prerequisite: Commercial Photography II Course: 1884CA/CB Credits: 2 This course focuses on careers in commercial photography that span all aspects of the industry from setting up a shot to delivering products in a competitive market. In addition to developing advanced technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an advanced technical understanding of the commercial photography industry with a focus on producing, promoting, and presenting professional quality photographs. If a student does not have transportation, opportunities will be limited. PRACTICUM IN AUDIO/VIDEO PRODUCTION Prerequisite: Audio/Video Production II Course: 1873CA/CB Credits: 2 In this self-paced independent production course, students will work with a mentor in the film/video industry and produce a final project complete with script, storyboard, casting, crew and premiere to an audience. Students must obtain prior approval

Course: 1871CA/CB

Length: 18 weeks

Placement: 11-12 Length: 36 weeks

Placement: 11-12

Length: 36 weeks

Placement: 11-12 Length: 36 weeks

Placement: 11-12

Length: 36 weeks

Placement: 10-12

Credits: 2

This course refines the video and multimedia production skills to prepare the student for post-secondary education or entry-level employment in the media technology industry. Students will be responsible for the production of several programs such as Every 15 Minutes and the Senior Video. Seniors will work on producing their personal Demo Reel which they will be able

before enrolling and provide an outline for a future project to be implemented by the student. If a student does not have transportation, opportunities will be limited.

PRACTICUM IN AUDIO TECHNOLOGY Prerequisite: Digital Audio Technology II Course: 1887CA/CB

This advanced level of Radio Broadcasting is an extension of the two previous classes. This class will focus on the management side of every day operations of 99.9 The Wild. Mansfield ISD's official radio station. The students enrolled in this class will be placed into different managerial roles and will be responsible for promotions, music, programming and everyday operations of the station. This class will prepare them for the everyday ins and outs of a commercial radio station. Students also have the opportunity to compete in Skills USA competitions. If a student does not have transportation, opportunities will be limited.

TV STUDIO PRODUCTION Prerequisite: Audio/Video Production II Course: 1875CA/CB

Students will work in a television studio environment learning all aspects of studio production including camera, lighting, directing, producing and techniques of professional on-air talent. Projects will consist of talk shows, newscasts, game shows etc. that will be scheduled for viewing on MISD-TV. Students will understand the TV studio environment from both the production side as well as the business side. If a student does not have transportation, opportunities will be limited.

Credits: 2

SPORTS BROADCASTING PRACTICUM Prerequisite: Digital Audio Technology II

Course: 1877CA/CB Credits: 2 This Radio Broadcasting Practicum course focuses on the field of Sports Broadcasting. The students will learn both live play-by-play techniques as well as sports talk radio techniques. The students will be responsible for the athletic events within the district as well as sports programming for 999theScore (KMAN-FM). Students develop their interviewing and broadcast preparation skills as well as their sports knowledge. Demo reels will be produced for each student for possible consideration of internships with local sports affiliates. If a student does not have transportation, opportunities will be limited.

*Students must successfully pass certification test(s) in order to receive the certification. +Industry Based Certification

Placement: 11-12 Length: 36 weeks

Placement: 11-12 Length: 36 weeks

Credits: 2

Placement: 11-12 Length: 36 weeks



Business & Industry Endorsement Business, Marketing & Finance

1		Business,	Marketing	& Finance
	Accountin	g & Financi	ial Service	S
Levels		Cou		
Level 1	Principles of Business Marketing & Finance 1715CT / 9-12	& Finance		BIM I 1240A-B 9-12 +Microsoft Office Specialist Word
Level 2	Accounting I 1271CT / 10-12 +Microsoft Office Specialist Excel	Financial M 1224CT Prerequisit Math	/ 10-12 e: Algebra I	Banking & Financial Services 1226/10-12
Level 3	Accounting II 1272CT / 11-12 Prerequisite: Accounti +Microsoft Office Experi Math Credit		Pr	Financial Analysis 1227CT / 11-12 erequisite: Accounting I al Certification Possible
Level 3	Security & Investm 1225CT / 11-12	ents	Practicum in Business Management 1251CA-CB / 11-12	
	Busin	ess Manag	ement	
Levels		Cou	rses	
Level 1	Principles of Business Marke 1715CT / 9-12	ting & Finance	BIM I 1240A-B / 9-12 +Microsoft Office Specialist Word	
Level 2	Business Law 1215CT & 1215A & B/ 10-12	Virtual I 1203 /		BIM II 1250A-B / 10-12 Prerequisite: BIM I +Microsoft Office Expert Word
Level 3	1216CT / 10-12 Prerequisite: 1-Level I or II Business M	Business Management 1216CT / 10-12 1201 nuisiter 1 Lougl Log II Business Management Course		siness AND Human Resource Management 1202CT OR 1201/1202 / 10-12 ogether at Ben Barber or separately at home campus
Level 4	P	Practicum in Busi 1251CA-C	•	nt
	Ent	repreneurs		
Levels		_	rses	
Level 1	Princ	iples of Business 1715CT		nance
Level 2	+Entrepr	Entrepre 1720CT eneurship & Small B	neurship / 10-12	n Possible
Level 3	Entrepreneurship 1721CT / 11-12	•	Mobile Applications Development 1052CT / 9-12 Prerequisite: Algebra I	
Level 4	P	Practicum in Busi 1251 CA-C	ness Manageme CB / 11-12	nt

	Marketing	g & Sal	es			
Levels		Courses				
Level 1	Principles of Bu		larketing & Finance			
	Sports & Entortainmont Markating Al	1715CT / 9	9-12			
Level 2	Sports & Entertainment Marketing Al Fashion Marketing 1725CT AND 1515CT / 9-12 Courses must be taken together +Google Analytics Individual Qualification Certification Possible		Virtual Bu 1203 / 10			
Level 3	1727C7	Social Media Marketing AND Advertising 1727CT AND 1711CT / 10-12 Courses must be taken together				
Level 4	Advanced Marketing 1367CT / 11-12 Prerequisite: One credit from Level 2 or 3 Market Courses	ing	Practicum in N 1364 CA-CB			
1 Semester Ho Campus	me 2 Semester Home 1 Semester B Campus	en Barber	2 Semester Ben Barber	Ben Barber or Home Campus		
-		1 .		•		
	Leve	11				
PRINCIPLES OF F Course: 1715CT	BUSINESS, MARKETING & FINANCE Credits	:: 1	Pla	acement: 9-12 Length: 18 weeks		
goods and servic This course allow	owledge and skills in economics and private en es, advertising and product pricing. Students an ws students to reinforce, apply and transfer a s, problems and settings in business, marketing a	nalyze the s cademic kr	sales process and financial nowledge and skills to a va	management principles.		
	MONEY MATTERS (Offered at BB & HC)Placement: 9-12Course: 1230CT OR 1230A/BCredits: 1Length: 18 weeks(BB) or 36 weeks(HC)					
Students will inv businesses. Stud investing, budge	oduces students to the financial planning pro- vestigate global economics with emphasis on t lents will learn how to achieve long-term finar ting, borrowing, risk management (insurance) , learn to use credit wisely, evaluate personal fin	the free en icial goals and retire	nterprise system and its im by preparing a financial pl ement and estate planning	pact on consumers and an that includes saving, . Students will analyze		
BUSINESS INFOR Course: 1240A/E	RMATION MANAGEMENT I (Home Campus Onl Credits:		F	lacement: 9-12 Length: 36 weeks		
performance in t word-processing	vides students the opportunity to implement he workplace and/or postsecondary education. documents, develop a spreadsheet, formulate a c tion: +Microsoft Office Specialist Word*	Students aj	pply technical skills, using N	Aicrosoft Office to create		
	Leve	II				
ACCOUNTING I Course: 1271CT	Credit	s: 1		Placement: 10-12 Length: 18 weeks		
the accounting en- ability to apply m for a sole proprie is a "must" for an	course will learn to record and interpret accour quation and its application to procedures and the nathematical analysis in problem-solving situatio etorship, partnership and/or corporation. Stude y student planning to major in business or own h tion: +Microsoft Office Specialist Excel*	e basic step ons are nece ents will co	s in the accounting cycle. G essary to satisfactorily comp mplete some work in the co	ood work habits and the blete practice simulation		

FINANCIAL MATHEMATICS Prerequisites: Algebra I Course: 1224CT

Placement: 10-12 Length: 18 weeks

Length: 18 weeks

Placement: 10-12

Placement: 10-12

Placement: 10-12

Length: 18 weeks

Length: 18 weeks(BB) OR 36

Credits: 1

This course is about personal money management. Students will apply critical-thinking skills to analyze personal financial decisions based on current and projected economic factors. Financial Mathematics will integrate career and postsecondary education planning into financial decision making. Note: Course can be used as an additional math credit for graduation.

BANKING & FINANCIAL SERVICES (Home Campus Only) Course: 1226 Credits: 0.5

This course surveys the principles and practices of banking and credit in the United States and globally. The students learn about the major functions of banks and other depository institutions, in-house operations and procedures, central banking through the Federal Reserve System, and modern trends in the banking industry. Students develop the knowledge and skills in the many aspects of banking to become competent consumers, employees, and entrepreneurs. The credit component provides an overview of credit functions and operations including credit risk evaluation, loan creation and debt collection.

BUSINESS LAW (Offered at BB & HC) Course: 1215CT OR 1215A/B weeks(HC)

Students analyze the social responsibility of business and industry regarding the significant issues relating to the legal environment, business ethics, torts, contracts, negotiable financial instruments, personal property, sales, warranties, business organizations, concept of agency and employment and real property.

VIRTUAL BUSINESS (Home Campus Only) **Course: 1203**

ENTREPRENEURSHIP

Virtual Business is designed for students to start a virtual business by creating a web presence, conducting online and off-line marketing, examining contracts appropriate for an online business, and demonstrating project-management skills. Students will also demonstrate bookkeeping skills for a virtual business, maintain business records, and understand legal issues associated with a virtual business.

BUSINESS INFORMATION	MANAGEMENT II (Home Campus Only)	Placement: 10-12
Prerequisite: BIM I		Length: 36 weeks
Course: 1250A/B	Credits: 1	

This course continues where Business Information Management I end and students will create complex word-processing documents, develop sophisticated spreadsheets using charts and graphs and make electronic multimedia presentations. In addition students may prepare for and take Microsoft Office Specialist certification tests in Word, Excel and PowerPoint. Possible Certification: +Microsoft Office Expert Word*

Course: 1720CT Credits: 1 Students will gain the knowledge and skills needed to become an entrepreneur, which include learning the principles necessary to begin and operate a business. The primary focus of the course is to help students understand the process of analyzing a business opportunity, preparing a business plan, determining feasibility of an idea using research, and developing a plan to organize and promote the business and its products and services. In addition, students understand the capital required, the return on investment desired and the potential for profit. Students are encouraged to participate in DECA, a co-curricular youth organization for Marketing, Management and Entrepreneurship.

Possible Certification: +Entrepreneurship & Small Business*

SPORTS & ENTERTAINMENT MARKETING / FASHION MARKETING Course: 1725CT & 1727CT Credits: 1

Placement: 9-12 Length: 18 weeks

Sports & Entertainment Marketing will allow students to actually study what many universities are offering as college majors. This course exposes students to skills necessary to form a sports franchise and the knowledge needed to have a successful event for ten close friends or thousands of energetic fans. Fashion Marketing is designed to provide students with the knowledge of the various business functions in the fashion industry. Students will gain a working knowledge of promotion, textiles, merchandising, mathematics, selling, visual merchandising and career opportunities in the field of fashion marketing. Students

Placement: 10-12

Length: 18 weeks

Credits: 0.5

Credits: 1

are encouraged to participate in DECA, a co-curricular youth organization for Marketing, Management and Entrepreneurship. These courses must be taken together. Level III Placement: 11-12 ACCOUNTING II Prerequisites: Accounting I Length: 18 weeks Course: 1272CT Credits: 1 Accounting II introduces the fundamentals of management accounting, including manufacturing and cost accounting, budgeting, accounting for managerial decision making and financial statement analysis. Students learn how to use accounting information for internal decision making and for planning and control. Because accounting knowledge is beneficial to business professionals in every discipline, this course provides them with the financial acumen necessary to make informed personal and business decisions. Note: Course can be used as an additional math credit for graduation. Possible Certification: +Microsoft Office Expert Excel* FINANCIAL ANALYSIS Placement: 11-12 Length: 18 weeks Prerequisites: Accounting I Course: 1227CT Credits: 1 Part of managing a successful and solvent business is evaluating performance in areas such as income, profitability, liquidity, working capital, debt, cash flow, etc. Students will also analyze accounting systems to examine their contribution to the fiscal stability of a business. By the end of the course, students will be able to evaluate company case studies and discuss the financial stability and value of the company. Students can earn a Certificate of Excellence by achieving a specific list of real world skills related to this course. For the list of skills, please visit goo.gl/9VM3a9 Placement: 10-12 **BUSINESS MANAGEMENT** Prerequisite: 1-Level I or II Business Management Course Length: 18 weeks Length: 18 weeks Course: 1216CT Credits: 1 Students analyze the primary functions of management and leadership, which are planning, organizing, staffing, directing or leading and controlling. They develop a foundation in the economic, financial, technological, international, social and ethical aspects of business to become competent managers, employees and entrepreneurs. Emphasis will be placed on project and video simulations. Students can earn a Certificate of Excellence by achieving a specific list of real world skills related to this course. For the list of skills, please visit goo.gl/9VM3a9 GLOBAL BUSINESS / HUMAN RESOURCES MANAGEMENT (Offered at BB & HC) Placement: 10-12 Course: 1201CT & 1202CT OR 1201,1202 Credits: 1 Length: 18 weeks(BB) OR 36 weeks(HC) In Global Business students will implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and to make a successful transition to the workforce and postsecondary education. Students will apply technical skills to address global business applications of emerging technologies. Students will develop a foundation in the economic, financial, technological, international, social, and ethical aspects of business to become competent consumers, employees, and entrepreneurs. Students will enhance reading, writing, computing, communication and reasoning skills and apply them to the business environment. In Human Resource Managements, students analyze the primary functions of human resources management, which include recruitment, selection, training, development and compensation. Topics will incorporate social responsibility of business and industry to its employees. Courses must be taken together at BBIA. Both Global Business (1201) and Human Resources Management (1202) are offered on the home campus as 0.5 credit courses and do not have to be taken together. They must be taken together at Ben Barber. ENTREPRENEURSHIP II Placement: 11-12 Course: 1721CT Credits: 1 Length: 18 weeks

Students will build on what they learned in Entrepreneurship I. The primary focus of the course is for students to analyze a business opportunity, developing a business plan and developing a plan to organize and promote the business and its products

and services. In addition, students understand the capital required, the return on investment desired and the potential for profit. Students are encouraged to participate in DECA, a co-curricular youth organization for Marketing, Management and Entrepreneurship.

MOBILE APPLICATIONS DEVELOPMENT Course: 1052CT

Mobile Application Development will foster students' creativity and innovation by presenting opportunities to design, implement, and deliver meaningful projects using mobile computing devices. Students will collaborate with one another, their instructor, and various electronic communities to solve problems presented throughout the course.

Credits: 1

SOCIAL MEDIA MARKETING / ADVERTISING Course: 1515CT & 1711CT

Social Media Marketing is designed to look at the rise of social media and how marketers are integrating social media tools in their overall marketing strategy. The course will investigate how the marketing community measures success in the new world of social media. Students will manage a successful social media presence for an organization, understand techniques for gaining customer and consumer buy-in to achieve marketing goals, and properly select social media platforms to engage consumers and monitor and measure the results of these efforts. Advertising is designed as a comprehensive introduction to the principles and practices of advertising. Students will gain knowledge of techniques used in current advertising, including print, broadcast, and digital media. The course explores the social, cultural, ethical, and legal issues of advertising, historical influences, strategies, media decision processes as well as integrated marketing communications, and careers in advertising and sales promotion. Students are encouraged to participate in DECA, a co-curricular youth organization for Marketing, Management and Entrepreneurship. These courses must be taken together.

Possible Certifications: +Google Analytics Individual Qualification*

SECURITIES & INVESTMENTS Course: 1225CT

This course focuses on the roles and functions of a modern securities organization. Through a study of the structure of brokerage firms, the trading process, credit and margin practices, automated processes, and government regulations, students gain an understanding of how a securities firm services its customers and plays an important role in our economy. Students are given the opportunity to relate their knowledge of economics, accounting, and data processing to the international financial systems through participation in stock market simulation games.

Credits: 2

Level IV

Credits: 1

PRACTICUM IN BUSINESS MANAGEMENT Course: 1251CA/CB

The Practicum is designed to give students supervised practical application of previously studied knowledge and skills. Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and to make a successful transition to the workforce or postsecondary education. Students apply technical skills to address business applications of emerging technologies. Students enhance reading, writing, computing, communication and reasoning skills and apply them to the business environment. Students incorporate a broad base of knowledge that includes the legal, managerial, marketing, financial, ethical and international dimensions of business to make appropriate business decisions. If a student does not have transportation, opportunities will be limited.

ADVANCED MARKETING Prerequisite: 1 credit from Level 2 or 3 Marketing Courses Course: 1367CT Credits: 1

Marketing is a series of dynamic activities that focuses on the customer to generate a profitable exchange. Students gain knowledge and skills that help them to be proficient in one or more of the marketing functional areas associated with distribution, financing, marketing information management, pricing, product, planning, promotion, purchasing, risk management and selling skills. Students integrate skills from academic subjects, information technology, interpersonal communication and management training to make responsible decisions. Students participate in leadership and career development activities. Students are encouraged to participate in DECA, a co-curricular youth organization for Marketing, Management and Entrepreneurship. This course may include unpaid career preparation experience.

Placement: 11-12

Length: 36 weeks

Placement: 11-12

Length: 18 weeks

Placement: 10-12 Length: 18 weeks

Placement: 9-12

Length: 18 weeks

Placement: 9-12

Length: 18 weeks

Credit: 1

PRACTICUM IN MARKETING Course: 1364CA/CB

Credits: 2

Students gain knowledge and skills that help them become proficient in one or more of the marketing functional areas. This course covers technology, communication, and customer-service skills. The practicum is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. The practicum course is an unpaid experience for students participating in a coherent sequence of career and technical education courses in marketing education. If a student does not have transportation, opportunities will be limited.

*Students must successfully pass certification test(s) in order to receive the certification. +Industry Based Certifications



Public Service Endorsement Education & Training

	Te	aching & Traini	ing			
Levels	Courses					
Level 1	Principles of Education					
		1536CT & 153				
Level 2		Human Growth & 1537CT /	-			
		Prerequisite: Princi				
		Instructiona				
Level 3		1531CA-CE	•			
		Prerequisite: Human Gr + Educational Aide I Ce				
		Practicum in Educa	· · · · · · · · · · · · · · · · · · ·			
Level 4		1535CA-(
		Prerequisite: Instructional Prac	ctices AND Selection Process			
1 Semester Home Campus	2 Semester Home Campus	1 Semester Ben Barber	2 Semester Ben Barber	Ben Barber or Home Campus		
1						
		Level I				
PRINCIPLES OF EDUCATION & TRAINING (Offered at BB & HC))Placement: 9-12Course: 1536CT OR 1536A/BCredits: 1Length: 18 weeks(BB) OR 36weeks(HC)Credits: 1Length: 18 weeks(BB) OR 36						
training career cluster.	knowledge and educationa . Students will also gain an g career cluster. Students	understanding of the basic l	knowledge and skills essen	tial to careers within the		
		Level II				
HUMAN GROWTH & D Prerequisite: Princip Course: 1537CT	EVELOPMENT les of Education & Trainin	g Credits: 1		Placement: 10-12 Length: 18 weeks		
perspectives, and com	n examination of human mon physical, cognitive, em postsecondary, one-semest	notional and social develop	mental milestones. The cou	urse covers material that		
		Level III				
	CTICES IN EDUCATION & T Growth & Development A			Placement: 11-12 Length: 36 weeks		
classrooms grades Pre- based on the student's imperative to exhibit a	s internship experience fo K through grade 12. Intern s interest and career goals. high academic standard an idents will meet at Ben Barb +Educational Aide I*	nships will take place at sch Since students will be fur nd professional behavior. S	nools within the MISD dist nctioning directly in a tea	crict and will be assigned ching environment, it is		

Level IV

PRACTICUM IN EDUCATION & TRAINING Prerequisite: Instructional Practices AND Selection Process Course: 1535CA/CB Credits: 2

Placement: 12 Length: 36 weeks

Practicum in Education and Training is a field-based internship that provides students background knowledge of child and adolescent development principles as well as principles of effective teaching and training practices. Students in the course work under the joint direction and supervision of both a teacher with knowledge of early childhood education and exemplary educators in direct instructional roles with elementary, middle school, and high school-aged students. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, assist with record keeping, make physical arrangements and complete other responsibilities of classroom teachers, trainers, paraprofessionals or other educational personnel. **Students must provide their own transportation and proof of insurance.** Students will meet at Ben Barber at least once a week.

*Students must successfully pass certification test(s) in order to receive the certification. +Industry Based Certification



Public Service Endorsement Health Science

	200	TT . 14	1	T				
T anna la	r	Healt	incar		ormatic	S		
Levels	Courses Medical Terminology Principles of Health Science					S ei en ee		
Level 1		1 cal Terminol 1443CT / 9-12	ogy				1410CT / 9-12	
					BIM I		111001 / 9 12	
Level 2				1240	A-B / 9-12			
					fice Specialist			
			N		oding & Bill	ing		
Level 3		Draraquici	to: RIM I		CT / 11-12 al Terminology .	AND Solo	tion Drocass	
					Specialist Cer			
			Stop	the Bleed	Certification P	ossible		
Laural 4			,		alth Resear	ch		
Level 4			Dr		CT / 11-12 Biology & Chem	ictry		
		Ugalt			**			
		пеан	IICal		rapeuti	C		
Levels	Duin cin	les of Health S		-	ourses	traduct	tion to Denta	1 5 0 0 0 0
Level 1		1410CT / 9-12	science		11		1465CT / 9-12	
Level 2	Medical Terminology							
Level 2			r	1443	BCT / 9-12		Γ	
							Phlebotomy	
	Anatomy &	Health					1424CT 11-12	1426CT
	Physiology	Science	Me	edical			Prerequisite:	11-12 Prerequisite:
	0810CT OR 8100A-B	Theory	Micro	oiology Pathophysiology			Principles of	
	8100А-В 11-12	1411CT		20CT	8125CT		Health Scienc	e Health Science
	Prerequisite:	10-12		D-12	11-12 D	-	AND another	
Level 3	Biology & 1	Prerequisite: Biology AND		equisite: logy &	Prerequisite:		Level 3 course AND Selection	
	other science	Principles of		stry AND			Process	Process
	credit AND Principles of	Health Science	Princ	ciples of	Scienc	e	+Phlebotomy	
	Health Science	CPR		1 Science	Science C	redit	Technician	EKG/ECG
	Science	Certification Possible	Scienc	e Credit			Certificatior Possible ANI	
	Credit	10331016					Selection	Selection
							Process	Process
	Pharmacy	Emerge		G		D.	in the Court	Clinical
	Technician*	Medic			ied Nurse Assistant		ient Care hnician*	Internship* 1431CA-CB
	1421CA-CB 12	1451CA-					13CA-CB	1431CA-CB 12
	Prerequisite: Health		CD		12	11	12	Prerequisite: Health
	Science Theory ANI		Health	Prerequ			Prerequisite: Health Science	
Level 4	any Level 3	Science Theor			Theory AND		e Theory AND	any Level 3
	Healthcare Therapeutic Course	any Leve Healthco		2			ebotomy OR G/ECG AND	Healthcare Therapeutic Course
	AND selection	Therapeutic			ction process		tion process	AND selection
	process	AND selec		+Certi	fied Nurse	+Pa	tient Care	process
	+Certified	proces			Assistant		chnician	OSHA 10 Hour
	Pharmacy Technician	+Emerger Medical Tecl		Certifica	tion Possible	Certific	ation Possible	Certification Possible
	rechniciun	medical Tech	meian					10001016

	Certification Possible	Basic Certification Possible				
*Students car		ny AND EKG/ECG.S ot take Pharmacy Te				ternship. Students
1 Semester Hor Campus		Home 1 Semeste	er Ben Barber		ester Ben Barber	College Course Weighted Credit
			Level I			
Course: 1410CT	HEALTH SCIENCE		Credits: 1			Placement: 9-12 Length: 18 weeks
and insight into effective commu- medical language secure employm	This course provides an introduction to health care careers, education and skills needed to attain various health care degrees, and insight into the functionality of teamwork in health care. Students will have the opportunity to explore: how to build effective communication skills, examine medical ethics and legal responsibilities, discuss standards of client care and safety and medical language as used in a variety of health care environments. This course will enhance the student's ability to successfully secure employment or pursue advanced education in health care and prepare for the transition to clinical or work-based experiences in health care.					
MEDICAL TERMI Course: 1443CT	INOLOGY	Cr	edits: 1			Placement: 9-12 Length: 18 weeks
will learn the str focus will be on	Students are introduced to the language of medicine while learning possible lifesaving techniques of CPR and First Aid. Students will learn the structure of medical terms and will build upon this foundation through each body system unit of study. Special focus will be on the application and use of medical language and terminology as it pertains to body systems related to cardiopulmonary emergencies as well as caring for sudden illness and injuries.					
	TO DENTAL SCIENCI	Ξ	credit: 1			Placement: 9-12 Length: 18 weeks
dentistry and rel related career p	Introduction to Dental Science is a introductory health science course designed to initiate secondary students to the field of dentistry and related topics. At the end of the course, students will be able to discuss the history of dentistry; identify dental related career pathways; explain dental legal and ethical responsibilities; recognize professional healthcare behavior and demeanor; and perform basic routine dental office procedures.					
		Ι	Level II			
BUSINESS INFOR Course: 1240A/E		IENT I (Home Campu Cre	s Only) edits: 1			Placement: 9-12 Length: 36 weeks
performance in t word-processing	This course provides students the opportunity to implement personal and interpersonal skills to strengthen individual performance in the workplace and/or postsecondary education. Students apply technical skills, using Microsoft Office to create word-processing documents, develop a spreadsheet, formulate a database, and make an electronic presentation. Possible Certification: +Microsoft Office Specialist Word*				licrosoft Office to create	
		L	evel III			
MEDICAL BILLIN Prerequisite: BI Course: 1460CT		rminology AND Selec Cr	tion Process edits: 1			Placement 11-12 Length: 18 weeks
detailed curriculu medical industry financial reports, Upon successful exam through the	um takes the student . This course requir , posting transactions completion of the Me e National Certified Ir	s through every step es students to develo and entering paymen	of this of growin op patient bill r ts, medical adm ng Program, stud alist. (NCICS)	ng field a outines, inistrativ lents will	nd prepares each st entering patient de ve duties, and medic l be qualified to sit t	ness side of medicine. A udent for a future in the mographics, generating al records management. he national certification ake certification exam.
ANATOMY & PH Prerequisite: Bi Course: 0810CT	ology AND 1 other s	cience AND Principle Cr	es of Health Scie redits: 1	ence	Length	Placement: 11-12 : 18 wks BB/36wks HC

Students will study the structures and functions of the human body systems. Students will do a comparative study of mammals with an in depth mammalian dissection. Human development, maintenance of homeostasis, transport systems and energy processes will also be topics of study. As part of the laboratory investigative process, students will be active in the dissection of prepared specimens. Note: Course can be used as an additional science credit for graduation. HEALTH SCIENCE THEORY Placement: 10-12 Prerequisite: Biology and Principles of Health Science Length: 18 weeks Course: 1411CT Credits: 1 The Health Science Theory course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Students will employ hands-on experiences for continued knowledge and skill development. To pursue a career in the health science industry, students should recognize, learn to reason, think critically, make decisions, solve problems, and communicate effectively. Students should recognize that quality health care depends on the ability to work well with others. This course is a prerequisite for ALL Health Science Practicum courses. Possible Certification: CPR* MEDICAL MICROBIOLOGY Placement: 10-12 Prerequisite: Biology AND Chemistry AND Principles of Health Science Length: 18 weeks Course: 8120CT Credits: 1 Students will study the relationships of microorganisms to wellness and disease. Students will develop knowledge and skills related to disease prevention by learning the chain of infection, asepsis and standard precautions. Pathogenic and nonpathogenic organisms will be identified to assist in the understanding of specific diseases, causative agents and treatment options. Note: Course can be used as an additional science credit for graduation. PATHOPHYSIOLOGY Placement: 11-12 Prerequisite: Biology AND Chemistry AND Principles of Health Science Length: 18 weeks Credits: 1 Course: 8125CT Students will study disease processes and how human systems are affected. Emphasis is placed on prevention and treatment of diseases. Students will differentiate between normal and abnormal physiology. Note: Course can be used as an additional science credit for graduation. PHLEBOTOMY Placement: 11-12 Prerequisite: Principles of Health Science AND another Level 3 course AND Selection Process Length: 18 weeks Course: 1424CT Credits: 1 This course is designed to teach the knowledge in technical and procedural aspects of basic phlebotomy, including collection of blood specimens and venipuncture required to become a Phlebotomy technician. The Phlebotomy Technician program includes theory and hands-on instruction and prepares students to take the Phlebotomy Technician certification exam. Possible Certification: +Phlebotomy Technician* Students cannot take Phlebotomy and EKG/ECG. EKG/ECG Placement: 11-12 Prerequisite: Principles of Health Science AND another Level 3 course AND Selection Process Length: 18 weeks Course: 1426CT Credits: 1 This course introduces the basic principles of electrocardiographic devices and their use in testing electrical impulses from the heart. Students learn how to record EKGs, vital signs, cardiac rhythms and stress. Also, individuals learn how EKG changes and myocardial infarctions are associated. Possible Certification: +EKG/ECG Technician* Students cannot take EKG/ECG and Phlebotomy.

WORLD HEALTH Prerequisite: Biology AND Chemistry Course: 1442CT

health issues that affect a least-developed country.

Credits: 1

This is a research-based course that examines major world health problems and emerging technologies as solutions to current medical problems. This course is designed to improve the student's understanding of the cultural, infrastructural, political, educational, and technological constraints that affect how health care is administered in the United States and in other parts of the world. World Health Research will inspire ideas for appropriate technological solutions to global health care issues. This class will also provide students with the opportunity to delve deep in the developing world as they research the culture, economy, politics, and specific health concerns that people in developing countries face. Units covered in World Health Research include: the history of disease and technology; health care systems around the world; global health and economic data; globalization of health care; public health and epidemiology; chronic and age-related diseases; infectious diseases; mental health and illnesses; maternal and perinatal conditions; immunity and disease; and cutting-edge medical technology. A major portion of this course revolves around a lengthy research project that allows students the opportunity to work in groups to explore

PHARMACY TECHNICIAN Prerequisite: Health Science Theory AND any Level 3 course AND selection process Course: 1421CA/CB Credits: 2

Placement: 12 Length: 36 weeks

Placement: 11-12

Length: 18 weeks

The curriculum will place emphasis on the pharmaceutical knowledge and laboratory skills required of health care workers while offering students the opportunity to add an industry certification to their professional portfolio. Those who successfully complete this course will be expected to take the National Pharmacy Technician Certification exam upon graduation. Students who enroll in this course will be required to participate in the clinical externship portion of the class and must meet the requirements of the Texas State Board of Pharmacy to be approved as a Pharmacy Technician Trainee. Students will be responsible for their own transportation to the approved clinical externship sites during after school hours. Twenty (20) externship hours will be required of each participant. Students will be required to pay for their own uniform. Students should be prepared to submit to a criminal background check, drug screening, TB testing, and to present proof of current immunizations including current flu shot and valid Social Security card.

Students cannot take Pharmacy Technician and Patient Care Technician.

Course Fees: a \$25 activity fee to help cover the cost of Liability Insurance, TB test, urine drug screening, back ground checks and patch. Students must obtain a Pharmacy Technician Trainee certificate (approximate cost (\$107). Possible Certification: +Certified Pharmacy Technician* Student must be 17 & HS Graduate to take certification exam

EMERGENCY MEDICAL TECHNICIAN Prerequisite: Health Science Theory AND Level 3 course AND selection process Course: 1451CA/CB Credits: 3

Placement: 12 Length: 36 weeks

This course is designed to prepare the student to perform minimum entry-level emergency care in the out of hospital environment. At the end of this course, successful students will be eligible to sit for National certification testing as an Emergency Medical Technician-Basic. Emphasis includes recognizing the nature and seriousness of the patient's condition, administering appropriate emergency medical care, lifting, moving and positioning the patient to minimize discomfort and prevent further injury, and to perform these duties safely and effectively. Students will complete clinical hours in the hospital and ambulance ride outs with the MFD post-graduation to be eligible for the exam. Students should be prepared to submit to a criminal background check, drug screening, TB testing, and to present proof of current immunizations including current flu shot and valid Social Security card. The classroom portion of this course will be taught at the Ben Barber campus. Students will be required to provide their own transportation to clinical sites.

Students cannot take EMT and Clinical Internship.

Course Fee: A \$100.00 activity fee to help cover cost of Liability Insurance and TB test AND security background check and drug screening through MedStar. A uniform is required for this course. Students are required to buy pants, shoes, undershirt, watch and belt.

Possible Certification: +Emergency Medical Technician* Student must be 18 & HS Graduate to take certification exam

CERTIFIED NURSING AIDE Prerequisite: Health Science Theory AND any Level 3 course AND selection process Course: 1471CT Credits: 1

This course, approved by the Texas Department of Aging and Disability Services, is designed to prepare students for a nursing-related career in healthcare facilities. Students must have an original Social Security card, successfully complete this course and pass the state written and skills performance exams to be listed in the Texas Registry. The classroom portion of the course will be taught at the Ben Barber campus and the clinical experience will be held off campus in a healthcare facility. Students will be provided transportation to the clinical site. All students will be required to utilize this transportation. Students should be prepared to submit to a criminal background check, drug screening, TB testing, and to present proof of current immunizations including current flu shot. All candidates must provide a valid Social Security card.

Course Fee: A \$25.00 activity fee to help cover cost of Liability Insurance, TB test, Urine drug screening, background checks and patch.

Possible Certification: +Certified Nursing Assistant* Student must be 16 to take certification exam

PATIENT CARE TECHNICIAN

Prerequisite: Health Science Theory AND Phlebotomy OR EKG/ECG AND selection process Course: 1413CA/CB Credits: 2

This course prepares students for the Patient Care Technician certification exam and the responsibilities of being a Patient Care Technician. The responsibilities include helping patients with procedures such as taking vital signs, performing electrocardiography (ECG), blood draws and other needs. In addition, students will learn about providing beside care, interactions with patients, nurses, doctors and patient's family, conduct catheterizations, saline locks and wound care procedures. All students will be required to utilize this transportation. Students should be prepared to submit to a criminal background check, drug screening, TB testing, and to present proof of current immunizations including current flu shot. All candidates must provide a valid Social Security card.

Students cannot take Patient Care Technician and Pharmacy Technician.

Course Fee: A \$25.00 activity fee to help cover cost of Liability Insurance, TB test, Urine drug screening, background checks and patch.

Possible Certification: +Patient Care Technician*

CLINICAL INTERNSHIP Prerequisite: Health Theory AND any Level 3 course AND Selection Process weeks Course: 1431CA/CB Credits: 2

This is an internship program for specific health professions. It is designed for those students who desire further study in a specific health specialty. Students are responsible for individualized study supervised by coordinator and clinical supervisor(s). Students are encouraged to participate in Health Occupations Students of America (HOSA), a co-curricular youth organization. Students are directed regarding participation in community service and in HOSA competition/activities. Students will learn multiple advanced practice skills as well as completing multiple research-based projects dealing with various topics related to healthcare. Students will be expected to provide their own transportation to and from the internship sites. Students should be prepared to submit to a criminal background check, drug screening, TB testing, and to present proof of current immunizations including current flu shot and valid Social Security card. The classroom portion of this course will be taught at the Ben Barber campus.

Course Fee: A \$25.00 activity fee to help cover cost of Liability Insurance, TB test, Urine drug screening, background checks and patch.

Possible Certification: OSHA 10 Hours*

Students cannot take Clinical Internship and EMT.

*Students must successfully pass certification test(s) in order to receive the certification. +Industry Based Certification

Placement: 12 Length: 36

Placement: 12

Length: 36 weeks



Business & Industry Endorsement Hospitality & Tourism

	P					
		Culinary Arts				
Levels		Cour				
Level 1	Introduction to Culinary Arts					
		1542CT OR 154				
		Culinar 1546CA-CE				
Level 2	Prerequisite: Introduction to Culinary Arts					
		+ServSafe Manager Ce	ertification Possible			
		Advanced Cu	-			
Level 3	1558CA-CB / 11-12 Prerequisite: Culinary Arts					
	+Cer		y Cook Certification Possible	е		
	Practicum in Cu	-	Practicum in Cu	linary Arts II		
Level 4	1547CA-CB Prerequisite: Culinary Arts		1549CA-(CB / 12		
	+Certified Fundamentals Coo		Prerequisite: Culinary Art	s AND Selection Process		
1 Semester Home Campus	2 Semester Home Campus	1 Semester Ben Barber	2 Semester Ben Barber	Ben Barber or Home Campus		
Campus	Campus			Campus		
		Level I				
INTRODUCTION TO CI	JLINARY ARTS (Offered at F	R & HC)		Placement: 9-12		
	nended that 11 th /12 th grade		and $9^{th}/10^{th}$ take at BB	Theement: 7 12		
Course: 1542CT OR 15		Credits: 1		ks(BB) OR 36 weeks(HC)		
Instruction addresses	teaches students to make inf nutritional needs of individ rocedures, food handling and	uals, menu planning, spec	cial dietary needs, food co			
		Level II				
CULINARY ARTS Prerequisite: Intro to	Culinary Arts			Placement: 10-12 Length: 36 weeks		
Course: 1546CA/CB		Credits: 2				
area of Culinary Arts.	urse designed to provide spec Students will develop skil rn prepping techniques for Savvy's Bistro.	ls in culinary and baking	g techniques, as well as p	prepared catered events.		
Course Fee: Each stude: Possible Certification:	nt is required to purchase a u + <mark>ServSafe Manager*</mark>	niform for \$50.00				
		Level III				
ADVANCED CULINARY	VARTS			Placement: 11-12		
	y Arts AND Selection Proce	SS		Length: 36 weeks		
Course: 1558CA/CB		Credits: 2		-		
standards in order to p will continue to develo	nd content and enhance ski prepare students for success op in-depth skills in culinary ques for restaurant operation	in higher education, certi and baking techniques, a	fications and/or immediat s well as prepare catered e	e employment. Students events. Students will also		

Savvy's Bistro and be introduced to advanced cake assembly, laminated dough, chocolate work, plating and specialty showpieces. Students will also taste and evaluate products they create in class to enhance their understanding of the course material.

Course Fee: Each student is required to wear their uniform or purchase one for \$50.00 Possible Certification: +Certified Fundamentals Pastry Cook*

Level IV

PRACTICUM IN CULINARY ARTS I Prerequisite: Culinary Arts AND Selection Process Course: 1547CA/CB

This advanced laboratory course is a unique practicum that provides occupationally specific opportunities for students to participate in a learning experience that combines classroom instruction with actual business and industry career experiences. Students will manage the daily operations of the on-campus restaurant, Savvy's Bistro. Students will be instructed in efficient back-of-the-house operations as well as front-of-the-house operations. Students will participate in a broad range of experiences related to the culinary arts industry.

Credits: 2

Course Fee: Each student is required to wear their uniform or purchase one for \$50.00 Possible Certification: +Certified Fundamentals Cook*

PRACTICUM IN CULINARY ARTS II Prerequisite: Culinary Arts AND Selection Process Course: 1549CA/CB

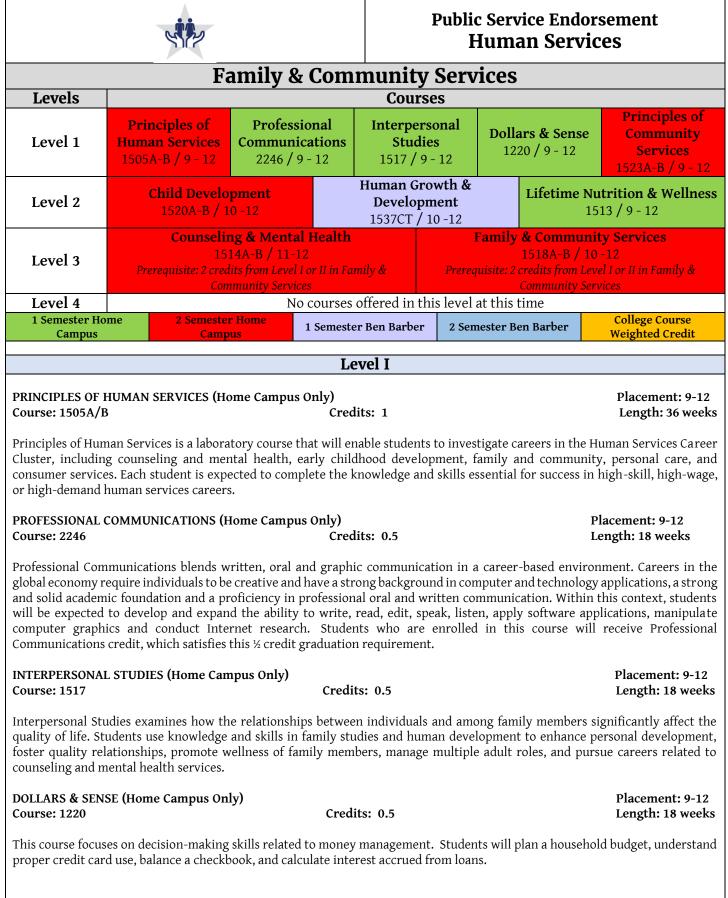
Credits: 2

This advanced laboratory course provides high level instruction in the kitchen/restaurant management. Students will receive extensive training in food preparation, inventory control, food cost and profit/loss analysis; all of which assist/support the student operated restaurant, Savvy's Bistro. **Students are required to be ServSafe certified**.

*Students must successfully pass certification test(s) in order to receive the certification. +Industry Based Certifications Placement: 12 Length: 36 weeks

Placement: 11-12

Length: 36 weeks



PRINCIPLES OF COMMUNITY SERVICE (Home Campus Only)		Placement: 9-12
Course: 1523A/B	Credits: 1	Length: 36 weeks

career options that provide assistance for individuals and families in need. The students will understand policies, design community service plans, and develop a portfolio of different community and state resources.

 Level II

 CHILD DEVELOPMENT (Home Campus Only)
 Placement: 10-12

 Course: 1520A/B
 Credits: 1
 Length: 36 weeks

 This course addresses skills related to child growth and development from pregnancy through school-age. Students will identify healthy behaviors during pregnancy, understand the birthing process, and identify the physical, emotional, social, and intellectual development of children at various stages of development. Other topics include characteristics of quality child care, prevention of child abuse and investigate safe and healthy environments for children to grow and thrive properly.

The purpose of this course is to introduce high school students to the field of non-profits/community service, as well as explore

HUMAN GROWTH & DEVELOPMENT Course: 1537CT

Students will study an examination of human development across the lifespan with emphasis upon research, theoretical perspectives, and common physical, cognitive, emotional and social developmental milestones. The course covers material that is generally taught in a postsecondary, one-semester introductory course in developmental psychology or human development.

LIFETIME NUTRITION & WELLNESS (Home Campus Only) Course: 1513 Credits: 0.5

This laboratory course teaches students to make informed choices that promote nutrition and wellness throughout the life cycle. Instruction addresses nutritional needs of individuals, menu planning, special dietary needs, food costs and budgeting, food safety and sanitation procedures, food handling and basic food preparation procedures.

Level III

COUNSELING & MENTAL HEALTH (Home Campus Only) Prerequisite: 2 credits from Level I or II in Family & Consumer Science Course: 1514A/B Credits: 1

Students model the knowledge and skills necessary to pursue a counseling and mental health career through simulated environments. Students are expected to apply knowledge of ethical and legal responsibilities, limitations and the implications of their actions. Professional integrity in counseling and mental health care is dependent on acceptance of ethical and legal responsibilities.

FAMILY & COMMUNITY SERVICES (Home Campus Only)Prerequisite: 2 credits from Level I or II in Family & Consumer ScienceCourse: 1518A/BCredits: 1

Family and Community Services is a laboratory-based course designed to involve students in realistic and meaningful communitybased activities through direct service or service-learning experiences. Students are provided opportunities to interact with and provide services to individuals, families, and the community through community or volunteer services. Emphasis is placed on developing and enhancing organizational and leadership skills and characteristics.

Placement: 11-12 Length: 36 weeks

Placement: 10-12

Length: 36 weeks

Placement: 10-12

Length: 18 weeks

Placement: 9-12

Length: 18 weeks

Credits: 1

		nformation Techn	01059	
	Networking Sys	stems		
Levels	Co	ourses		
Level 1	Computer Science I (PLTW) 1050CT / 9-12 Prerequisite: Algebra I LOTE Credit	Principles of Informa 1850CT /		
Level 2	AP Computer Science Principles 1266CT / 9-12 Prerequisite: Algebra I Weighted & LOTE Credit	AP Computer SciencePrinciplesComputer Ma1266CT / 9-121829CA-CBPrerequisite: Algebra IPrerequisite: Principles		
Level 3	1831CA Prerequisit	Networking 1831CA-CB / 11-12 Prerequisite: Principles of IT +CompTIA Network + Certification Possible		
Level 4	Practicum in Information Technology 1851CA-CB / 12 Prerequisite: 2 courses in Information Technology OR STEM +Oracle Certified Database Associate Certification Possible			
	Web Developn	nent		
Levels	Courses			
Level 1		ormation Technology CT / 9-12		
Level 2	Computer Science I (PLTW) 1050CT / 9-12 Prerequisite: Algebra I LOTE Credit	Web Commu 1854 / 9		
Level 3	Web Design 1855CT / 10-12 +WD Certified Web Design Certification Possible			
Level 4	18510 Prerequisite: 2 courses in In	CA-CB / 12 Iformation Technology OR STEM Associate Certification Possible		
1 Semester Home Campus	2 Semester Home Campus 1 Semester Ben Barbo	, í	College Course Weighted Credit	
	Level I			

Course: 1050CT

Credits: 1

Computer Science I will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor, and various electronic communities to solve the problems presented throughout the course. Through data analysis, students will identify task requirements, plan search strategies, and use computer science concepts to access, analyze, and evaluate information needed to solve problems. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of the principles of computer science through the study of technology operations, systems, and concepts. This is a Project Lead the Way course. **Note: Course can be used as a LOTE credit for graduation**.

PRINCIPLES OF INFORMATION TECHNOLOGY Course: 1850CT

Students develop computer literacy skills to adapt to emerging technologies used in the global marketplace. Students implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. Students enhance reading, writing, computing, communication and reasoning skills and apply them to the information technology environment. Students investigate the vast wealth of career opportunities in the Information Technology field. Students learn beginning computer programming skills and the program design process.

Level II

Credits: 1

Credits: 1

AP COMPUTER SCIENCE PRINCIPLES \Box Prerequisite: Algebra I Course: 1266CT

Students will learn about the computing tools that are used every day. Students will foster their creativity and innovation through opportunities to design, implement, and present solutions to real-world problems. Students will collaborate and use computer science concepts to access, analyze, and evaluate information needed to solve problems. Students will learn the problem-solving and reasoning skills that are the foundation of computer science. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of the principles of computer science through the study of technology operations and concepts. Note: Course can be used as a LOTE credit for graduation.

COMPUTER MAINTENANCE Course: 1829CA/CB

This course prepares students for jobs in the Information Technology field. For entry-level IT technicians, this course covers preventative maintenance, basic networking, installation, troubleshooting, communication and professionalism. Students also research current technology. Students will demonstrate mastery of the industry-defined employment skills. Possible Certification: +CompTIA A+*

Credits: 2

WEB COMMUNICATIONS (Home Campus Only) Course: 1854

Students will acquire knowledge of web communications and technological operations and concepts. This is an exploratory course in web communications. The six strands include creativity and innovation; communication and collaboration; research and information fluency; critical thinking; problem solving, and decision making; digital citizenship; and technology operations and concepts.

NETWORKING **Prerequisite: Computer Maintenance** Course: 1831CA/CB

This course provides the student with theory and hands-on experience. The students gain experience in resolving hardware and software conflicts. Students practice SCAN Skills (industry-defined employment skills). Students develop knowledge of the concepts and skills related to telecommunications and data networking technologies and practices in order to apply them to personal or career development. To prepare for success, students will have opportunities to reinforce, apply and transfer knowledge and skills to a variety of settings and problems. Possible Certification: +CompTIA Network*

WEB DESIGN Course: 1855CT

In Web Design students will acquire knowledge of web design and technological operations and concepts that support creativity, innovation, collaboration, information fluency, critical thinking and decision making. The six strands include creativity and

Credits: 1

Placement: 9-12 Length: 18 weeks

Placement: 9-12 Length: 18 weeks

Placement: 10-12 Length: 36 weeks

Placement: 9-12 Length: 18 weeks

Placement: 11-12

Length: 36 weeks

Placement: 10-12 Length: 18 weeks

Credits: 2

Credit: 0.5

Level III

innovation; communication and collaboration; research and information fluency; critical thinking; problem solving, and decision making; digital citizenship; and technology operations and concepts.

Level IV

PRACTICUM IN INFORMATION TECHNOLOGY Prerequisite: 2 courses in Information Technology OR STEM Course: 1851CA/CB Credits: 2 Placement: 12 Length: 36 weeks

This personalized independent study course will allow students interested in pursuing a career in information technology opportunities for advanced learning beyond the classroom environment. Students will engage in a variety of industry relevant experiences such as competition and or product innovation, classroom teaching opportunities, and/or advanced topics research and development. If a student does not have transportation, opportunities will be limited. Possible Certification: +Oracle Certified Database Associate

Weighted Credit

*Students must successfully pass certification test(s) in order to receive the certification. +Industry Based Certification



Public Service Endorsement Law & Public Service

I any Endewagen and					
Law Enforcement					
Levels	Courses				
Level 1	Principles of Law, Public Safety, Corrections & Security 9400CT / 9-12				
Level 1	Principles of Law, Public Safety, Corrections & Security 9400CT / 9-12				
Level 2	Law Enforcement I 9410CT / 9-12 Prerequisite: Principles of Law FEMA – Intro to Incident Command Certification Possil	9450CT Prerequisite: Pre- +Non-Commissi Officer Level II, Critical Infrastrue Ble Resilience & FEM Emergency Re	Federal Protective Services 9450CT / 9-12 Prerequisite: Principles of Law +Non-Commissioned Security Officer Level II, Active Shooter, Critical Infrastructure Security & Resilience & FEMA Community Emergency Response Team Certification Possible		ninal Investigation 9411CT / 10-12 muisite: Principles of Law ery Officer Should Know NA Evidence Certification Possible
Level 3	Law Enforcement II 9420CT / 10-12 Prerequisite: Law Enforcement +IAED Emergency Telecommunicator Certificati Possible	I 9440C	Correctional Services 9440CT / 12 Prerequisite: Principles of Law		ensic Psychology 9431CT / 11-12 nuisite: Principles of Law Legal Guide for Forensic t Certification Possible
Level 4	Practicum in Law, Publi Safety, Corrections & Security 9422CA-CB / 11-12	1514A-B Prerequisite: 2 cred	Counseling & Mental Health 1514A-B / 11-12 Prerequisite: 2 credits from Level I or II in Family & Community Services		orensic Science 9430CT / 11-12 site: Criminal Investigation Biology AND Chemistry e Scene & DNA Basics rtification Possible Science Credit
	Legal Studies				Science crean
Levels		Cou	rses		
Level 1	Principle	es of Law, Public Sat 9400CT	fety, Correction	s & Secu	ırity
Level 2	Court Systems & 9415CT / 10	Practices		Busines	
Level 3		Advanced Legal Sk 9416CT Prerequisite: Court :	ills & Profession / 11-12		
Level 4	Practicu	m in Law, Public Sa 9422CA-C		ıs & Secı	ırity
1 Semester Home Campus	2 Semester Home 1 Campus	Semester Ben Barber			College Course Weighted Credit
Level I					
PRINCIPLES OF LAW, PU Course: 9400CT	PRINCIPLES OF LAW, PUBLIC SAFETY, CORRECTIONS & SECURITYPlacement: 9-12Course: 9400CTCredits: 1Length:18 weeks				
This course introduces students to professions in law enforcement, security, corrections and fire and emergency management services. Student will examine the roles and responsibilities of police, courts, corrections, private security and protective agencies of fire and emergency services. Emphasis is placed on constitutional laws for criminal procedures that are building blocks for a career in the criminal justice system. The course provides student with an overview of the skills necessary for careers in law enforcement, fire service, security and corrections.					

	Level II	
LAW ENFORCEMENT I Prerequisite: Principles of Law, Public Course: 9410CT	Safety Credits: 1	Placement: 9-12 Length: 18 weeks
includes the role of constitutional law,	y, organization and functions of local, state, a the United States legal system, criminal law, nponents of this course emulate elements of a -based learning environment.	law enforcement terminology, and th
Course Fee: Each student is required to pu Possible Certifications: FEMA Intro to Inci		
FEDERAL PROTECTIVE SERVICES		Placement: 9-12
Prerequisite: Principles of Law, Public Course: 9450CT	Safety Credits: 1	Length: 18 weeks
security services for federal law enforcen types of organizations with a focus on se computer security, to provide information	ed Security Officer Level II, Active Shooter, Crit	des an overview of security elements an , and proprietary information, to ensur
CRIMINAL INVESTIGATION Prerequisite: Principles of Law, Public Course: 9411CT	Safety Credits: 1	Placement: 10-12 Length: 18 weeks
Criminal Investigation is a server that in		
pasic functions of criminal investigation. Students will learn terminology and inve collection, fingerprinting, and courtroom and analyze evidence such as fingerprint marks, firearms and ammunition, blood sp	s and procedures and will learn how to invest stigative procedures related to criminal investi n presentation. Through case studies and simu t analysis, bodily fluids, hairs, fibers, shoe and patter, digital evidence, and other types of evide	igate or follow up during investigations gation, crime scene processing, evidenc ilated crime scenes, students will collec tire impressions, bite marks, drugs, too
basic functions of criminal investigation. Students will learn terminology and inve collection, fingerprinting, and courtroom and analyze evidence such as fingerprint marks, firearms and ammunition, blood sp Possible Certifications: What every Investi	s and procedures and will learn how to invest stigative procedures related to criminal investi n presentation. Through case studies and simu t analysis, bodily fluids, hairs, fibers, shoe and patter, digital evidence, and other types of evide	gation, crime scene processing, evidence llated crime scenes, students will collec tire impressions, bite marks, drugs, too
basic functions of criminal investigation. Students will learn terminology and inve collection, fingerprinting, and courtroom and analyze evidence such as fingerprint	s and procedures and will learn how to invest stigative procedures related to criminal investi n presentation. Through case studies and simu t analysis, bodily fluids, hairs, fibers, shoe and patter, digital evidence, and other types of evide	igate or follow up during investigations gation, crime scene processing, evidence llated crime scenes, students will collec tire impressions, bite marks, drugs, too ence.
basic functions of criminal investigation: Students will learn terminology and inve collection, fingerprinting, and courtroom and analyze evidence such as fingerprint marks, firearms and ammunition, blood sp Possible Certifications: What every Investi COURT SYSTEMS & PRACTICES Course: 9415CT Court Systems & Practices is an overview and the trial process from pretrial to	s and procedures and will learn how to invest stigative procedures related to criminal investi n presentation. Through case studies and simu t analysis, bodily fluids, hairs, fibers, shoe and patter, digital evidence, and other types of evide igator Know about DNA Evidence*	igate or follow up during investigations gation, crime scene processing, evidence lated crime scenes, students will collect tire impressions, bite marks, drugs, too ence. Placement: 10-12 Length: 18 weeks rse identifies the roles of judicial officer es of evidence. Emphasis is placed on
pasic functions of criminal investigation. Students will learn terminology and investigation. Students will learn terminology and investigation, fingerprinting, and courtroom and analyze evidence such as fingerprint marks, firearms and ammunition, blood sp Possible Certifications: What every Investig COURT SYSTEMS & PRACTICES COURT SYSTEMS & PRACTICES Course: 9415CT Court Systems & Practices is an overview and the trial process from pretrial to constitutional law for criminal procedures	s and procedures and will learn how to invest stigative procedures related to criminal investi in presentation. Through case studies and simu t analysis, bodily fluids, hairs, fibers, shoe and patter, digital evidence, and other types of evide igator Know about DNA Evidence* Credits: 1 of the federal and state court systems. The cours sentencing and examines the types and rule	igate or follow up during investigation: gation, crime scene processing, evidence ilated crime scenes, students will collect tire impressions, bite marks, drugs, too ence. Placement: 10-12 Length: 18 weeks rse identifies the roles of judicial officer es of evidence. Emphasis is placed o
pasic functions of criminal investigation: Students will learn terminology and inve collection, fingerprinting, and courtroom and analyze evidence such as fingerprint marks, firearms and ammunition, blood sp Possible Certifications: What every Investi COURT SYSTEMS & PRACTICES COURT SYSTEMS & PRACTICES Course: 9415CT Court Systems & Practices is an overview and the trial process from pretrial to constitutional law for criminal procedures BUSINESS LAW	s and procedures and will learn how to invest stigative procedures related to criminal investi in presentation. Through case studies and simu t analysis, bodily fluids, hairs, fibers, shoe and patter, digital evidence, and other types of evide igator Know about DNA Evidence* Credits: 1 of the federal and state court systems. The cours sentencing and examines the types and rule	igate or follow up during investigation gation, crime scene processing, evidence ilated crime scenes, students will collect tire impressions, bite marks, drugs, too ence. Placement: 10-12 Length: 18 weeks rse identifies the roles of judicial officer es of evidence. Emphasis is placed o interrogation.
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basic functions of criminal investigation: Students will learn terminology and inve collection, fingerprinting, and courtroom and analyze evidence such as fingerprint marks, firearms and ammunition, blood sp Possible Certifications: What every Investi COURT SYSTEMS & PRACTICES COURT SYSTEMS & PRACTICES Course: 9415CT Court Systems & Practices is an overview and the trial process from pretrial to constitutional law for criminal procedures BUSINESS LAW Course: 1215CT Students analyze the social responsibilit environment, business ethics, torts, cont	s and procedures and will learn how to invest stigative procedures related to criminal investi in presentation. Through case studies and simu t analysis, bodily fluids, hairs, fibers, shoe and patter, digital evidence, and other types of evide igator Know about DNA Evidence* Credits: 1 of the federal and state court systems. The cou sentencing and examines the types and rule s such as search and seizure, stop and frisk and Credits: 1 ity of business and industry regarding the tracts, negotiable financial instruments, perso	igate or follow up during investigations gation, crime scene processing, evidence ilated crime scenes, students will collect tire impressions, bite marks, drugs, too ence. Placement: 10-12 Length: 18 weeks rse identifies the roles of judicial officer es of evidence. Emphasis is placed of interrogation. Placement: 11-12 Length: 18 weeks significant issues relating to the lega
basic functions of criminal investigation: Students will learn terminology and inve collection, fingerprinting, and courtroom and analyze evidence such as fingerprint marks, firearms and ammunition, blood sp Possible Certifications: What every Investi COURT SYSTEMS & PRACTICES COURT SYSTEMS & PRACTICES Course: 9415CT Court Systems & Practices is an overview and the trial process from pretrial to constitutional law for criminal procedures BUSINESS LAW Course: 1215CT Students analyze the social responsibili environment, business ethics, torts, conto organizations, concept of agency and emp	s and procedures and will learn how to invest stigative procedures related to criminal investi a presentation. Through case studies and simu t analysis, bodily fluids, hairs, fibers, shoe and patter, digital evidence, and other types of evide igator Know about DNA Evidence* Credits: 1 of the federal and state court systems. The cour sentencing and examines the types and rule s such as search and seizure, stop and frisk and the Credits: 1 ity of business and industry regarding the tracts, negotiable financial instruments, perso ployment and real property.	igate or follow up during investigation gation, crime scene processing, evidence ilated crime scenes, students will collect tire impressions, bite marks, drugs, too ence. Placement: 10-12 Length: 18 weeks rse identifies the roles of judicial officer es of evidence. Emphasis is placed o interrogation. Placement: 11-12 Length: 18 weeks significant issues relating to the lega nal property, sales, warranties, busines
basic functions of criminal investigation: Students will learn terminology and inve collection, fingerprinting, and courtroom and analyze evidence such as fingerprint marks, firearms and ammunition, blood sp Possible Certifications: What every Investi COURT SYSTEMS & PRACTICES COURT SYSTEMS & PRACTICES Course: 9415CT Court Systems & Practices is an overview and the trial process from pretrial to constitutional law for criminal procedures BUSINESS LAW Course: 1215CT Students analyze the social responsibili	s and procedures and will learn how to invest stigative procedures related to criminal investi a presentation. Through case studies and simu t analysis, bodily fluids, hairs, fibers, shoe and patter, digital evidence, and other types of evide igator Know about DNA Evidence* Credits: 1 of the federal and state court systems. The cour sentencing and examines the types and rule s such as search and seizure, stop and frisk and the Credits: 1 ity of business and industry regarding the tracts, negotiable financial instruments, perso ployment and real property.	igate or follow up during investigation: gation, crime scene processing, evidence ilated crime scenes, students will collect tire impressions, bite marks, drugs, too ence. Placement: 10-12 Length: 18 weeks rse identifies the roles of judicial officer es of evidence. Emphasis is placed of interrogation. Placement: 11-12 Length: 18 weeks significant issues relating to the lega

testimony. Components of this course emulate more extensive elements of a Police Academy where students will apply their 38

CORRECTIONAL SERVICES Course: 9440CT	Credits: 1	Placement: 12 Length: 18 weeks		
In Correctional Services, students prepare f will learn the role and responsibilities of a co tactics, restraint techniques, and first aid pr and alternatives to institutionalization.	orrectional officer; discuss relevant rules, reg	gulations, and laws; and discuss defensive		
FORENSIC PSYCHOLOGY Prerequisite: Principles of Law Course: 9431CT	Credits: 1	Placement: 11-12 Length: 18 weeks		
Forensic Psychology uses and applies basic skills developed in psychology to criminal behavior and criminal scenarios resulting in a structured and scientific approach to investigative analysis, which enables police or law enforcement officials to predict criminal activity based upon mathematical/scientific data versus abstract intuition. Possible Certifications: Law 101: Legal Guide for Forensic Expert*				
ADVANCED LEGAL SKILLS & PROFESSIONA Prerequisite: Court Systems & Practices Course: 9416CT	ALS Credits: 1	Placement: 11-12 Length: 18 weeks		
This course is a more in depth look of the for procedures such as search and seizure, stop compete in mock trial competitions.				
	Level IV			
	Level Iv			
PRACTICUM IN LAW, PUBLIC SAFETY, COR Course: 9422CA/CB		Placement: 11-12 Length: 36 weeks		
	RRECTIONS & SECURITY Credits: 2 ication of previously studied knowledge and nternship that is related to their interest wit overnment Agencies, Local Attorneys, Texas	Length: 36 weeks skills in Law, Public Safety, Corrections, hin the Criminal Justice Field. Partners Department of Criminal Justice, Texas		
Course: 9422CA/CB Students will have supervised practical appli and Security by participating in a non-paid In include the MISD Police Department, Local G Attorney General and Tarrant County Sheriff	RECTIONS & SECURITY Credits: 2 ication of previously studied knowledge and nternship that is related to their interest wit overnment Agencies, Local Attorneys, Texas f's Department. If a student does not have Campus Only)	Length: 36 weeks skills in Law, Public Safety, Corrections, hin the Criminal Justice Field. Partners Department of Criminal Justice, Texas		
Course: 9422CA/CB Students will have supervised practical appli and Security by participating in a non-paid II include the MISD Police Department, Local G Attorney General and Tarrant County Sheriff limited. COUNSELING & MENTAL HEALTH (Home C Prerequisite: 2 credits from Level I or II in	RECTIONS & SECURITY Credits: 2 ication of previously studied knowledge and nternship that is related to their interest wit iovernment Agencies, Local Attorneys, Texas I's Department. If a student does not have Campus Only) In Family & Community Services Credits: 1 I necessary to pursue a counseling and n ply knowledge of ethical and legal responsib	Length: 36 weeks skills in Law, Public Safety, Corrections, hin the Criminal Justice Field. Partners Department of Criminal Justice, Texas transportation, opportunities will be Placement: 11-12 Length: 36 weeks		
Course: 9422CA/CB Students will have supervised practical appli and Security by participating in a non-paid In include the MISD Police Department, Local G Attorney General and Tarrant County Sheriff limited. COUNSELING & MENTAL HEALTH (Home C Prerequisite: 2 credits from Level I or II in Course: 1514A/B Students model the knowledge and skills environments. Students are expected to app their actions. Professional integrity in cou	RECTIONS & SECURITY Credits: 2 ication of previously studied knowledge and nternship that is related to their interest wit overnment Agencies, Local Attorneys, Texas if's Department. If a student does not have Campus Only) n Family & Community Services Credits: 1 necessary to pursue a counseling and n oly knowledge of ethical and legal responsib useling and mental health care is depend	Length: 36 weeks skills in Law, Public Safety, Corrections, hin the Criminal Justice Field. Partners Department of Criminal Justice, Texas transportation, opportunities will be Placement: 11-12 Length: 36 weeks		

Telecom Certification.

Course Fee: Each student is required to purchase a uniform for \$35.00 Possible Certifications: +IAED Emergency Telecommunicator*

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knowledge and skills into a scenario-based learning environment. Students have the option to take the exam for the Emergency

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This course uses a structured and scientific approach to the investigation of crimes of assault, abuse and neglect, domestic violence, accidental death, homicide and the psychology of criminal behavior. Student will learn terminology and investigative procedures related to crime scene, questioning, interviewing, criminal behavior characteristics, truth detection and scientific procedures used to solve crimes. Using scientific methods, students will collect and analyze evidence through case studies, simulated crime scenes and laboratory applications such as fingerprint analysis, ballistics, blood spatter analysis and DNA. Students will learn the history, legal aspects, and career options for forensic science. Note: Course can be used as an additional science credit for graduation. Possible Certification: Crime Scene & DNA Basics^{*}

*Students must successfully pass certification test(s) in order to receive the certification. +Industry Based Certification



Business & Industry Endorsement Manufacturing

Manufacturing Technology					
Levels	Courses				
Level 1	Principles of Manufacturing				
	1809CT / 9-12				
Level 2	Diversified Manufacturing I Prerequisites: Principles of Manufacturing				
		1828CT			
Level 3	Precision Metal Manufacturing I 1806CA-CB / 10-12 Prerequisites: Principles of Manufacturing OSHA 10 Hour Certification Possible		Computer Integrated Manufacturin (PLTW) 1838CT / 10-12 Prerequisite: Principles of Engineering Weighted Credit Local Certification Possible		
		Manufacturing II	Practicum in N	Aanufacturing	
Level 4		rerequisite: Precision Metal acturing I	1822CA-	-CB / 12	
		ing Certification Possible	Prerequisite: Precision	Metal Manufacturing I	
		Welding			
Levels	Cou	rses	Supporting	g Courses	
Level 1		Principles of Manufacturing 1809CT / 9-12			
Level 2	1813 CA-(Prerequisite: Princip + AWS D1.1 Structural	ling I CB / 10-12 Iles of Manufacturing Steel Tack Welder AND rtification Possible	TCC WLDG 1417 Intro to Layout & Fabrication 0178 / 11-12 No TSI Requirement Weighted Credit This course will be completed in the 1 st semester		
Level 3	OSHA 10 Hour Certification Possible Welding II 1814CA-CB / 11-12 Prerequisites: Welding I +AWS D1.1 Structural Steel Welder Certification Possible		TCC WLDG 1428 Intro to Shielded Metal Arc Welding 0176 / 10-12 No TSI Requirement Weighted Credit TCC WLDG 1430 Intro to Gas Metal Arc Welding 0177 / 10-12 No TSI Requirement Weighted Credit		
Level 4	Practicum in Manufacturing 1822CA-CB / 12 Prerequisites: Welding I				
1 Semester Home Campus	2 Semester Home Campus	1 Semester Ben Barber	2 Semester Ben Barber	College Course Weighted Credit	
		Level I			
PRINCIPLES OF MANUI Course: 1809CT	FACTURING	Credit: 1		Placement: 9-12 Length: 18 weeks	
Students will gain knowledge and skills in the application, design, production, and assessment of products, services, and systems and how those knowledge and skills are applied to manufacturing. Students will prepare for the modern world, using knowledge and skills in the proper application of principles of manufacturing the design of technology the efficient production of					

and how those knowledge and skills are applied to manufacturing. Students will prepare for the modern world, using knowledge and skills in the proper application of principles of manufacturing, the design of technology, the efficient production of technology, and the assessment of the effects of manufacturing production technology. Students will apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings in a manufacturing

	Level II	
DIVERSIFIED MANUFACTURING Prerequisite: Principles of Manufacturing Course: 1828CT	Credit: 1	Placement: 9-12 Length: 18 weeks
Students gain knowledge and skills in the application how those knowledge and skills are applied to man apply, and transfer academic knowledge and skills manufacturing setting.	ufacturing. The study of man	ufacturing systems allows students to reinforce,
WELDING I Prerequisite: Principles of Manufacturing Course: 1813CA/CB	Credits: 2	Placement: 10-12 Length: 36 weeks
This course provides the knowledge, skills, and technical supports the integration of academic and technical tools. The plasma cutter and the cutting torch wi metal fabrication skills. Projects may require a lab Possible Certification: +AWS D1.1 Structural Steel T	al knowledge and skills. Stud ill be also be introduced. Stud fee.	lents will wire weld as well as use hand and power lents will use measurement, drafting, welding and
TCC WLDG 1417 Introduction to Layout & Fabrication students must register and pay tuition by TCC dead		with this class. There is no TSI requirement, but
	Level III	
PRECISION METAL MANUFACTURING I Prerequisite: Principles of Manufacturing Course: 1806CA/CB	Credits: 2	Placement: 10-12 Length: 36 weeks
This course provides the knowledge, skills, and tee may also address a variety of materials in addition the concepts and skills related to these systems to a Possible Certification: OSHA 10 Hour*	n to metal such as plastics, cer	ramics, and wood. Students develop knowledge of
COMPUTER INTEGRATED MANUFACTURING · Prerequisite: Principles of Engineering Course: 1838CT	Credits: 1	Placement: 10-12 Length: 18 weeks
This course applies principles of robotics and auto introducing computer programming and the proce skills students develop in Introduction to Engine produce actual models of their three-dimensional and design analysis are included. This course allow	esses used to manufacture tod ering Design and Principles designs. Fundamental concep	ay's consumer products. This course builds on the of Engineering. Students use CNC equipment to pts of robotics used in automated manufacturing

Lead the Way course. Students can earn a Certificate of Excellence by achieving a specific list of real world skills related to this course. For the list of skills, please visit goo.gl/9VM3a9

WELDING II Prerequisite: Welding I Course: 1814CA/CB

Credits: 2

college credit hours upon high school graduation through participating college/university Tech Prep programs. This is a Project

Placement: 11-12 Length: 36 weeks

setting. Students will gain an understanding of career opportunities available in manufacturing and what employers require to

obtain and maintain employment in these careers.

taken concurrently with this class. Ther	re is no TSI requirement, but students must r	roduction to Gas Metal Arc Welding can be register and pay tuition by TCC deadline.
	Level IV	
PRECISION METAL MANUFACTURING Prerequisite: Precision Metal Manufa Course: 1807CA/CB		Placement: 11-12 Length: 36 weeks
will enhance technical knowledge and s	skills by allowing students the opportunity ness partners in our community. Student	and intermediate machinist skills. This cours to explore career preparation through onsite must provide their own transportation to
PRACTICUM IN MANUFACTURING Prerequisite: Welding I OR Precision Course: 1822CA/CB	Metal Manufacturing I Credits: 2	Placement: 12 Length: 36 weeks
welding. Students in this course will be r experience. The student is expected to know how to use all equipment from p	required to participate in an internship with go out and secure this internship within th	and skills in metal manufacturing focusing on a local business to give them real world worl e first week of class. Students are expected to and interpret working drawings with welc d.
	Supporting Courses	
TCC WLDG 1417 INTRO TO LAYOUT & Prerequisite: Welding I Course: 0178	DESIGN 🗆 Credits: 1	Placement 11-12 Length: 18 weeks
	fabrication related to the welding industry. I at Ben Barber and is taught concurrently wit	Major emphasis is placed on structural shape h Welding I (1813CA)
TCC WLDG 1428 INTRO TO SHIELDED M Prerequisite: Principles of Manufactu Course: 0176		Placement 10-12 Length: 18 weeks
	elded metal arc process. Emphasis is placed ns. Instruction provided in SMAW fillet weld vith Welding II (1814CA).	
TCC WLDG 1430 INTRO TO GAS METAI Prerequisite: Principles of Manufactu Course: 0177		Placement: 10-12 Length: 18 weeks
	s metal arc welding, set-up and use of GMAW designs. Course offered at Ben Barber and is	



STEM Endorsement Science, Technology, Engineering & Math

Cybersecurity									
Levels	Courses								
Level 1	Foundations of Cybersecurity 1853CT / 9-12			I	Princ	iples o	les of Information Technology 1850CT / 9-12		
Level 2	1050CT/ 9-12 Prerequisite: Algebra I		Princ 1266CT	iples 1829CA / 9-12 Prerequisit COTE Credit +CompTIA		r Maintenance A-CB / 10-12 e: Principles of IT A+ Certification Possible			
Level 3	AP Computer Science A - Math/LOTE 1055CA-CB / 10-12 Prerequisite: AP Computer Science Principles Weighted & 1 Credit in Math & 1 Credit in LOTE			ples	+Com	Networking 1831CA-CB / 10-12 pTIA Network + Certification Possible		0-12	
Level 4	Practicum in STEM 1857CA-CB / 12 Prerequisite: A Level 2 AND Level 3 STEM or IT course			T course	Prerequis	cticum in Information Technology 1851CA-CB / 12 nuisite: 2 courses in Information Technology OR STEM le Certified Database Associate Certification Possible			
		Eng	inee	ring					
Levels	Courses						Supporting Courses		
Level 1	Introduction to Engineerin 1835CT / 9 -12 Weighted Credit +Autodesk Certified User in Inventor Ce			/ 9 -12 l Credit		(PLTW) 1856CT / 9-12 *This course will not count toward		*This course will not count toward	
Level 2	No	courses of	fered	at Level	2 in thi	s prog	gram of stu	dy	
Level 3	Principles of Engineering (Engineering Science) (PLTW) 1836CT / 10-12 Prerequisite: Intro to Engineering AND Algebra I AND Biology AND Chemistry OR IPC Weighted Credit, Science Credit	Comput Integrat Manufactu (PLTW) 1838CT / 1 Prerequisi Principles Engineerin Weighted C Local Certific Possible	ed uring) 0-12 ite: of ng iredit cation	Engin (PL 1834CT Prerec Princt Engin	space eering TW) (/ 10-12 puisite: ples of eering ed Credit	Arc 1862 Pr Pr Ei	Civil ineering & chitecture (PLTW) ICT / 10-12 erequisite: rinciples of ngineering chted Credit		
Level 4	Edu-Drone I 1860CT / 11-12 Prerequisite: Algebra I AND must have driver's license by the end of the semester +FAA Part 107 Remote Drone Pilot Certification Possible		D	ngineerin evelopme 1845CT requisite: Cl Weighte	ent (P / 11-1 IM OR A	L TW) 12 12 OR CE			

Programming & Software Development					
Levels Courses					
Level 1	No course	es offered at Leve	l 1 in this progra	am of study	
Level 2	1266CT / 9-12 1 Weighted Credit Prer			uter Science 1050CT / 9- Prerequisite: Alg LOTE Cred	-12 Jebra I
Level 3	AP Computer Science A – Math/LOTE 1055CA - CB/ 10-12 Prerequisite: AP Computer Science Principles Weighted Credit & 1 Credit in Math & 1 Credit in LOTE Computer Science II 1051CT / 9-12 Prerequisite: Computer Science I LOTE Credit +Microsoft MTA Intro to Programming using Python Certification Possible			Dev 105	e Applications V elopment 2CT / 9-12 uisite: Algebra I
Level 4	Prerequis	acticum in Inforn 1851CA-C site: 2 courses in Infor rtified Database As	B / 11-12 mation Technology	y OR STEM	
	Renew	able Energ	gy		
Levels		Cou	rses		
Level 1	No courses	offered at Level	1 0	ram of study	У
Level 2	AC/DC Electronics 1841CT / 10-12 +OSHA 30 Hours Certification Possible				
Level 3	Solid State Electronics 1843CT / 10-12 Prerequisite: AC/DC Electronics Local Certification Possible				
Level 4	Prerea	Practicum 1857CA- Juisite: A Level 2 ANE	1 in STEM -CB / 12	^r course	
1 Semester Home Campus	2 Semester Home	ester Ben Barber	2 Semester B		College Course Weighted Credit
Project Lead the Way is a four year sequence of courses which, when combined with traditional mathematics and science courses in high school, introduces students to the scope, rigor, and discipline of engineering prior to entering college. However, those not intending to pursue further formal education will benefit greatly from taking some or all of the courses provided. Level I					
FOUNDATION OF CYBEF Course: 1856CT	FOUNDATION OF CYBERSECURITYPlacement: 9-12Course: 1856CTCredits: 1Length: 18 weeks				
concepts related to the e threats, and vulnerabilit	In the Foundations of Cybersecurity course, students will develop the knowledge and skills needed to explore fundamental concepts related to the ethics, laws, and operations of cybersecurity. Students will examine trends and operations of cyberattacks, threats, and vulnerabilities. Students will review and explore security policies designed to mitigate risks. The skills obtained in this course prepare students for additional study in cybersecurity.				
PRINCIPLES OF INFORM Course: 1850CT		Credits: 1			Placement: 9-12 Length: 18 weeks
	ter literacy skills to adapt to emerg nal skills to prepare for a rapidly o				

INTRODUCTION TO ENGINEERING DESIGN []Placement: 9-12Course: 1835CTCredits: 1Length: 18 weeks

computing, communication and reasoning skills and apply them to the information technology environment. Students investigate the vast wealth of career opportunities in the Information Technology field. Students learn beginning computer

Engineering is the practice of manipulating the natural world to fit our needs as humans. In this introductory course, students will learn the basics of design and communication so that they can understand and use the methods in which our designed world is created. Products are created, analyzed, and communicated using solid modeling design software. This class combines math, art, science, and group skills to prepare students for creative and exciting jobs. This course allows students the opportunity to earn transcripted college credit to articulate college credit hours upon high school graduation through participating college/university Tech Prep programs. This is a Project Lead the Way course. Possible Certification: +Autodesk Certified User in Inventor*

Level II

Credits: 1

COMPUTER SCIENCE I Prerequisite: Algebra I Course: 1050CT

programming skills and the program design process.

Computer Science I will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor, and various electronic communities to solve the problems presented throughout the course. Through data analysis, students will identify task requirements, plan search strategies, and use computer science concepts to access, analyze, and evaluate information needed to solve problems. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of the principles of computer science through the study of technology operations, systems, and concepts. This is a Project Lead the Way course. **Note: Course can be used as a LOTE credit for graduation.**

AP COMPUTER SCIENCE PRINCIPLES · Prerequisite: Algebra I Course: 1266CT

Students will learn about the computing tools that are used every day. Students will foster their creativity and innovation through opportunities to design, implement, and present solutions to real-world problems. Students will collaborate and use computer science concepts to access, analyze, and evaluate information needed to solve problems. Students will learn the problem-solving and reasoning skills that are the foundation of computer science. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of the principles of computer science through the study of technology operations and concepts. **Note: Course can be used as a LOTE credit for graduation.**

Credits: 1

COMPUTER MAINTENANCE Course: 1829CA/CB

Course: 1829CA/CBCredits: 2Length: 36 weeksThis course prepares students for jobs in the Information Technology field. For entry-level IT technicians, this course covers
preventative maintenance, basic networking, installation, troubleshooting, communication and professionalism. Students also
research current technology. Students will demonstrate mastery of the industry-defined employment skills.
Possible Certification: +CompTIA A+*

AC/DC ELECTRONICS Course: 1841CT

Electronics is presented with hands on, high-tech approach that includes a computer-based module lab-learning environment. Students will, analyze, experiment and design circuits using direct current, alternating current theory and perform advanced electrical-electronic troubleshooting assignments using industry standard test equipment including oscilloscopes. This course covers fundamental math and science concepts needed in electronics. Radio transmitters and receivers are explored. The fundamental relationship of current, voltage, resistance, capacitance, inductance, and power is demonstrated though an

Credits: 1

Placement: 9-12 Length: 18 weeks

Placement: 10-12

Placement: 10-12

Length: 18 weeks

Placement: 9-12 Length: 18 weeks application of the Ohm's, Power and Kirchhoff's Laws. Lab equipment includes Function generators, oscilloscopes and meters all labs require written reports. End of course design project includes the research, design, documentation and construction of a student created circuit.

Possible Certification: +OSHA 30 Hours*

Level III

AP COMPUTER SCIENCE A – MATH/LOTE Prerequisite: AP Computer Science Principles Course: 1055CA/CB

AP Computer Science A is an introductory college-level computer science course. Students cultivate their understanding of coding through analyzing, writing, and testing code as they explore concepts like modularity, variables, and control structures. **Note: Course can be used as an 1 credit LOTE and 1 credit Math credit for graduation.**

NETWORKING Prerequisite: Computer Maintenance Course: 1831CA/CB

This course provides the student with theory and hands-on experience. The students gain experience in resolving hardware and software conflicts. Students practice SCAN Skills (industry-defined employment skills). Students develop knowledge of the concepts and skills related to telecommunications and data networking technologies and practices in order to apply them to personal or career development. To prepare for success, students will have opportunities to reinforce, apply and transfer knowledge and skills to a variety of settings and problems. Possible Certification: +CompTIA Network*

Credits: 2

PRINCIPLES OF ENGINEERING (Engineering Science)Placement: 10-12Prerequisite: Intro to Engineering AND Algebra I AND Biology AND Chemistry or IPCLength: 18 weeksCourse: 1836CTCredits: 1

This course is designed to help students understand the field of engineering/engineering technology by exploring various technology systems and manufacturing processes. The activities and projects offered through this course are designed to help students learn how engineers and technicians use math, science, and technology in an engineering problem solving process. This course allows students the opportunity to earn transcripted college credit or to articulate college credit hours upon high school graduation through participating college/university Tech Prep programs. This is a Project Lead the Way course. Note: Course can be used as an additional science credit for graduation.

COMPUTER INTEGRATED MANUFACTURING		Placement: 10-12
Prerequisite: Principles of Engineering		Length: 18 weeks
Course: 1838CT	Credits: 1	

This course applies principles of robotics and automation. Students learn to program machinery to bring their 3D design while introducing computer programming and the processes used to manufacture today's consumer products. This course builds on the skills students develop in Introduction to Engineering Design and Principles of Engineering. Students use CNC equipment to produce actual models of their three-dimensional designs. Fundamental concepts of robotics used in automated manufacturing and design analysis are included. This course allows students the opportunity to earn transcripted college credit or to articulate college credit hours upon high school graduation through participating college/university Tech Prep programs. This is a Project Lead the Way course.

Students can earn a Certificate of Excellence by achieving a specific list of real world skills related to this course. For the list of skills, please visit <u>goo.gl/9VM3a9</u>

AEROSPACE ENGINEERING				
Prerequisite: Principles of Engineering				
Course: 1834CT				

Credits: 1

Placement: 10-12 Length: 18 weeks

Placement: 10-12 Length: 36 weeks

Placement: 11-12 Length: 36 weeks

Credits: 2

addition, the course presents alternative applications for aerospace engineering concepts. Students will analyze, design and build aerospace systems. While implementing these designs, students will continually hone their interpersonal skills, creativity and application of the design process. Students apply knowledge gained throughout the course in a final multi-media project to envision their future professional accomplishments. This is a Project Lead the Way course. CIVIL ENGINEERING & ARCHITECTURE Placement: 10-12 Prerequisite: Principles of Engineering Length: 18 weeks

Aerospace Engineering is the study of the engineering discipline which develops new technologies for use in aviation, defense systems and space exploration. The course explores the evolution of flight, flight fundamentals, navigation and control, aerospace materials, propulsion, space travel, orbital mechanics, ergonomics, remotely operated systems and related careers. In

Civil Engineering & Architecture is the study of the design & construction of residential & commercial building projects. The course includes an introduction to many of the varied factors involved in building design & construction including building components & systems, structural design, storm water management, site design, utilities & services, cost estimation, energy efficiency & careers in the design & construction industry. This is a Project Lead the Way course.

Credits: 1

Credits: 1

COMPUTER SCIENCE II Prerequisite: Computer Science I Course: 1051CT

Course: 1861CT

Computer Science II will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor, and various electronic communities to solve the problems presented throughout the course. Through data analysis, students will identify task requirements, plan search strategies, and use computer science concepts to access, analyze, and evaluate information needed to solve problems. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of computer science through the study of technology operations, systems, and concepts. This is a Project Lead the Way course. Note: Course can be used as a LOTE credit for graduation.

MOBILE APPLICATIONS DEVELOPMENT Course: 1052CT

Mobile Application Development will foster students' creativity and innovation by presenting opportunities to design, implement, and deliver meaningful projects using mobile computing devices. Students will collaborate with one another, their instructor, and various electronic communities to solve problems presented throughout the course.

SOLID STATE ELECTRONICS **Prerequisite:** AC/DC Electronics Course: 1843CT

Advanced Electronics presents the type of electronics in many of today's high-tech devices. Solid-state theory (transistors, integrated circuits, numbering systems, logic gates, flip-flops) is introduced and practiced, as well as TTL and CMOS devices, digital logic, counters, registers, a/d and d/a converters and solid-state devices. It also reviews the advanced concepts of DC, AC Digital electronics, which include Fundamentals of semiconductor devices, which include diodes, common diode applications, BJT, Biasing Circuits, Amplifier principals, FETs, Op-Amps, Oscillators and Voltage Regulators. Labs include the use of power supplies, function generators, oscilloscopes and meters. All labs require written reports. The end of the course has a research and design component.

Credits: 1

Students can earn a Certificate of Excellence by achieving a specific list of real world skills related to this course. For the list of skills, please visit goo.gl/9VM3a9

PRACTICUM IN STEM Prerequisite: A Level 2 AND Level 3 STEM or IT course Course: 1857CA/CB

Credits: 2

Level IV

Placement: 12 Length: 36 weeks

Practicum in STEM is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience.

Placement: 9-12 Length: 18 weeks

Placement: 10-12

Length: 18 weeks

Placement: 9-12

Length: 18 weeks

Credit: 1

Prerequisite: Algebra I AND Must be 16 years old with Course: 1860CT	1 driver's license before end of the course Credits: 1	Length: 18 weeks			
This course allows students to develop a strong foundatio certification to legally fly drones for commercial purposes photography, land survey, utility inspection, and more. Possible Certification: FAA Part 107 Remote Drone Pilot*					
ENGINEERING DESIGN & DEVELOPMENT		Placement: 11-12			
Prerequisite: Computer Integrated Manufacturing OR Aerospace Engineering OR Civil Engineering & Archite		Length: 18 weeks			
Course: 1845CT	Credits: 1				
This course will provide students with the opportunity to master the design process to solve a design problem of their choosing. They will use prior knowledge to develop, model test their solutions. Each team will present and defend their solutions to a panel of experts. This is a Project Lead the Way course.					
Supp	oorting Courses				
ROBOTICS I Course: 1856CT	Credits: 1	Placement: 9-12 Length: 18 weeks			
Students enrolled in this course will demonstrate knowledge and skills necessary for the robotic and automation industry. Through implementation of the design process, students will transfer advanced academic skills to component designs in a project-based environment. Students will build prototypes or use simulation software to test their designs. Additionally, students explore career opportunities, employer expectations and educational needs in the robotic and automation industry.					
 Weighted Credit *Students must successfully pass certification test(s) in or +Industry Based Certification 	rder to receive the certification.				

PRACTICUM IN INFORMATION TECHNOLOGY Prerequisite: 2 courses in Information Technology OR STEM Course: 1851CA/CB Credits: 2

This personalized independent study course will allow students interested in pursuing a career in information technology opportunities for advanced learning beyond the classroom environment. Students will engage in a variety of industry relevant experiences such as competition and or product innovation, classroom teaching opportunities, and/or advanced topics research and development. If a student does not have transportation, opportunities will be limited. Possible Certification: +Oracle Certified Database Associate*

Placement: 11-12 46.10 veeks

Placement: 12

Length: 36 weeks

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EDU-DRONE I



Business & Industry Endorsement Transportation, Distribution & Logistics

Logistics				
Drone (Unmanned Flight) Regional Program of Study				
Levels	Courses			
Level 1	No courses offered at Lev	el 1 in this program of study		
Level 2	Robotics I 1856CT / 9-12	Principles of Engineering (Engineering Science) (PLTW) 1836CT / 10-12 Prerequisite: Intro to Engineering AND Algebra I AND Biology AND Chemistry OR IPC Weighted Credit, Science Credit		
Level 3	18580	otics II T / 10-12 vite: Robotics I		
Level 4	Edu-Drone I 1860CT / 11-12 Prerequisite: Algebra I AND must have driver's license by the end of the semester +FAA Part 107 Remote Drone Pilot Certification Possible	Practicum in Manufacturing		
	Automotive			
Levels	Co	urses		
Level 1	No courses offered at Lev	rel 1 in this program of study		
Level 2	1800 SP2 Ethics & You in	otive Basics CT / 9-12 The Automotive Industry, Certification Possible		
Level 3	Energy, Power & Transportation Systems 1810CT / 9-12 Prerequisite: Automotive Basics SP2 Bullying in the Workplace, SP2 Substance Abuse Awareness & Management Certification Possible	Automotive Technology I 1811CA-CB / 10-12 Prerequisites: Energy, Power & Transportation Systems +ASE Maintenance & Light Repair, SP2 Mechanical Safety Certification Possible		
Level 4	Automotive Technology II 1815CA-CB / 11-12 Prerequisites: Automotive Technology I +ASE Brakes AND ASE Suspension & Steering Certifications Possible	Practicum in Transportation, Distribution & Logistics 1821CA-CB / 11-12 Prerequisites: Automotive Technology I +ASE Electrical/Electronics Systems Certifications Possible		
1 Semester Home Campus	2 Semester Home Campus 1 Semester Ben Barber	2 Semester Ben Barber College Course Weighted		
	Campus			
	Level I			
No courses offered at Level 1 for this program of study.				
	Level II			
AUTOMOTIVE BASICS Course: 1800CT	Credits: 1	Placement: 9-12 Length: 18 weeks		

This course allows students to develop a strong foundation in a critical work shortage field involving STEM and prepare for FAA certification to legally fly drones for commercial purposes — law enforcement and security, emergency response, aerial photography, land survey, utility inspection, and more. Possible Certification: +FAA Part 107 Remote Drone Pilot*	
PRACTICUM IN MANUFACTURING Prerequisite: Welding I OR Precision Metal Manufacturing I Course: 1822CA/CB Credits: 2	Placement: 12 Length: 36 weeks
Students will gain supervised practical application of previously studied knowledge and skills in metal manufacturing focusing on welding. Students in this course will be required to participate in an internship with a local business to give them real world work experience. The student is expected to go out and secure this internship within the first week of class. Students are expected to know how to use all equipment from previous courses as well as be able to read and interpret working drawings with weld symbols. If a student does not have transportation, opportunities will be limited.	
AUTOMOTIVE TECHNOLOGY II: AUTOMOTIVE SERVICE Prerequisite: Automotive Technology I Course: 1815CA/CB Credits: 2	Placement: 11-12 Length: 36 weeks
This course prepares the student for an entry level position in the automotive technology field. The area of instruction include advanced components of the Maintenance and Light Repair Certification of the NATEF Task List. Placement in an internship may occur during the summer between a students' junior and senior year in a dealership or independent shop. Potential interns are chosen by the Business and Education Council Committee. Students must have all required safety wear as listed in the prerequisite class. Possible Certification: +ASE Brakes AND +ASE Suspension & Steering*	
PRACTICUM IN TRANSPORTATION SYSTEMS Prerequisite: Automotive Technology I Credits: 2 Course: 1821CA/CB	Placement: 11-12 Length: 36 weeks
This practicum course is an unpaid internship for students participating in the Automotive Technology courses. A student must have an Automotive Technology related job no later than the 2 nd week after the start of class to receive credit. Students must adhere to all workplace rules and regulations and have a positive report from employers. If a student does not have transportation, opportunities will be limited. Possible Certifications: +ASE Electrical/Electronic Systems*	
*Students must successfully pass certification test(s) in order to receive the certification. +Industry Based Certification	