

BUSINESS AND INDUSTRY ENDORSEMENT OR MULTIDISCIPLINARY ENDORSEMENT					
Ag. Food & Natural Resources Cluster					
Agricultural Science	Grade	SBISD Course Codes	Sem/Yr	Credits	Comments
Advanced Animal Science (State Approved for 3rd Science Credit with required Science prerequisites.)	11-12	CTAG15	Sem.	1	Required Elective Prereqs.: Minimum C average in Small An. Mgmt./Equine Science OR Livestock Production Required Academic Prereqs.: Algebra 1 & Geometry; Biology & Chemistry or Biology & IPC
Advanced Plant and Soil Science (State Approved for 3rd Science Credit with required Science prerequisites.)	11-12	CTAG29	Sem.	1	Required Elective Prereq.: Minimum C average in Horticulture Science. Recommended Academic Prereqs.: Biology and IPC, Chemistry, or Physics.
Agricultural Mechanics	10-12	CTAG30	Sem.	1	
Agriculture Practicum	11-12	CAG82A & CAG82B	Yr.	2	
Small Animal Management and Equine Science	10-12	CTAG 12 and CTAG13 taken concurrently	Sem.	0.5 0.5	Recommended Prereq: Principles of AFNR. Recommended Prereq: Principles of ANFR.
Floral Design (State Approved as Fine Arts Credit)	9-12	CTAG26	Sem.	1	Recommended Prereq: Principles of AFNR
Horticultural Science	10-12	CTAG28	Sem.	1	Recommended Prereq: Principles of AFNR
Landscape Design & Mgmt. and Turf Grass Mgmt.	10-12	CTAG25 and CTAG27 taken concurrently	Sem. Sem.	0.5 0.5	
Livestock Production	10-12	CTAG11	Sem.	1	Recommended Prereq: Principles of AFNR
Oil & Gas Production 1 and Oil & Gas Production 2	10-12	CTAG50 (FALL) & CTAG51 (SPRING)	Sem. Sem.	1 1	Oil & Gas 1 and 2 are taken consecutively in one school year.
Principles of Ag., Food & Nat. Res.	9-12	CTAG10	Sem.	1	
Veterinary Medical Applications	11-12	CTAG14	Sem.	1	Prerequisite: Minimum C average in Livestock Production or Small An. Mgmt./Equine Science.
Wildlife, Fisheries & Ecology Mgmt.	9-12	CTAG23	Sem.	1	Recommended Prereq: Principles of AFNR.
Architecture and Construction Cluster					
Architectural Design	Grade	SBISD Course Codes	Sem/Yr	Credits	Comments
Principles of Architecture and Architectural Design 1	10-12	*CTAC12 and CTAC13 are taken in the same school yr.	Yr.	1 1	Prerequisite: Successful completion of/or concurrently enrolled in Geometry. CTAC13 (Fall Semester) & CTAC12 (Spring Semester)
Architectural Design 2	11-12	CAC22A & CAC22B	Yr.	2	Prerequisite: Minimum C average in Principles of Arch./Architectural Design 1
Practicum Architectural Design	12	CAC82A & CAC82B	Yr.	2	Prerequisite: Minimum C average in Architectural Design 2
TRIO Electrician Apprenticeship Program* Math for Technical Professionals (TRIO) and Electrical Tech 1 (TRIO) *Math is state approved for a 3rd math credit with the required prereqs.	11	CTPM60 (Fall) and CTAC35 (Spring) are taken in the same school yr.	Fall Sem. Spr. Sem.	1 1	CTPM 60 Required Prerequisite: Algebra 1 Prerequisite: One class from the Architecture & Construction Cluster CTAC35 Electrical Tech 1 Recommended Prereq.: Jack of All Trades (Principles of Construction) or Ag. Mechanics
Electrical Tech 2 (TRIO)	12	CAC45A & CAC45B	Yr.	2	Prerequisite: Minimum C ave. in Elect. Tech 1 and Math for Technical Professionals
Arts, A/V Communications and Technology Cluster					
3D Animation	Grade	SBISD Course Codes	Sem/Yr	Credits	Comments
3D Animation 1-Game Art w Lab	9-12	CAV11A & CAV11B	Yr.	2	
3D Animation 2-Game Art w Lab	10-12	CAV21A & CAV21B	Yr.	2	Prerequisite: Minimum C average in 3D Animation 1- Game Art w Lab
Practicum in 3D Animation 3- Game Dev.	11-12	CAV83A & CAV83B	Yr.	2	Prerequisite.: Successful Completion of 3D Anim. 2- Game Art w Lab
Practicum 2 in 3D Animation 4-Game Development	12	CAV93A & CAV93B	Yr.	2	Prerequisite: Successful Completion of Practicum in 3D Animation 3- Game Development
Commercial Photography	Grade	SBISD Course Codes	Sem/Yr	Credits	Comments
Commercial Photography 1 w Lab	9-12	CAV14A & CAV14B	Yr.	2	
Commercial Photography 2 w Lab	10-12	CAV24A & CAV24B	Yr.	2	Prerequisite: Minimum C average in Commercial Photography 1 w Lab
Practicum in Commercial Photography	11-12	CAV87A & CAV87B	Yr.	2	Prerequisite: Minimum C average in Commercial Photography 2 w Lab
Film & Video Production	Grade	SBISD Course Codes	Sem/Yr	Credits	Comments
Film & Video Production 1 w Lab	9-12	CAV12A & CAV12B	Yr.	2	
Film & Video Production 2 w Lab	10-12	CAV22A & CAV22B	Yr.	2	Prerequisite: Minimum C ave. in Film & Video Prod. 1 w Lab
Practicum in Film & Video Production	11-12	CAV82A & CAV82B	Yr.	2	Prerequisite: Minimum C ave. in Film & Video Prod. 2 w Lab

Arts, A/V Communications and Technology Cluster, <i>Continued</i>					
Graphic Design	Grade	SBISD Course Codes	Sem/Yr	Credits	Comments
Graphic Design 1 w Lab	10-12	CAV13A & CAV13B	Yr.	2	
Graphic Design 2 w Lab	11-12	CAV23A & CAV23B	Yr.	2	Prerequisite: Minimum C average in Gr. Design 1 w Lab
Practicum in Graphic Design	12	CAV85A & CAV85B	Yr.	2	Prerequisite: Minimum C average in Gr. Design 2 w Lab
Hospitality and Tourism Cluster					
Culinary Arts	Grade	SBISD Course Codes	Sem/Yr	Credits	Comments
Culinary Arts	9-12	CHT14A & CHT14B	Yr.	2	
Culinary Arts 2	10-12	CHT24A & CHT24B	Yr.	2	Prerequisite: Minimum C average in Culinary Arts 1
Practicum in Café Operations	11-12	CHT94A & CHT94B	Yr.	2	Prerequisite.: Minimum C average in Culinary Arts 2
Practicum in Chef Training	11-12	CHT84A & CHT84B	Yr.	2	Prerequisite: Minimum C Average in Culinary Arts 2
Hotel Management	Grade	SBISD Course Codes	Sem/Yr	Credits	Comments
Practicum in Hotel 1: Hotel Mgmt. and Hospitality Services 1	10-12	CHT11A&B and CHT85A&B taken concurrently	Yr.	3	3 periods- AOC,MHS,NHS,SW; 4 pers. Double blocked- SHS, WAIS. Class is held at the OMNI Hotel. Transportation provided.
Hotel 2: Travel & Tourism and Practicum in Hospitality Services 2	11-12	CHT13A&B and CHT95A&B taken concurrently	Yr.	3	3 periods- AOC,MHS,NHS,SW; 4 pers. Double blocked- SHS, WAIS. Prerequisite: Minimum C average: Hotel Mgmt. 1. Class is held at the OMNI Hotel. Transportation provided.
Information and Technology Cluster					
Computer Technology	Grade	SBISD Course Codes	Sem/Yr	Credits	Comments
Computer Maintenance w Lab	10-12	CIT11A & CIT11B	Yr.	2	Technical Certification: CompTIA A+
Networking 1 w Lab	10-12	CIT12A & CIT12B	Yr.	2	Tech.Cert.:CCENT(CISCO Certified Entry Networking Tech.)
Practicum in Information Tech (Net. 2)	11-12	CIT82A & CIT82B	Yr.	2	TechCert:CCNA Prereq.: Min C ave in Net.1 w Lab:
Computer Technician-Practicum	11-12	CIT81A & CIT81B	Yr.	2	Prerequisite.: Successful completion of Comp. Maint.w Lab
*Computer Programming 1 and *Computer Programming 2	10-12	*CTIT13 and *CTIT16 taken consecutively	Fall Sem. Spr.Sem.	1 1	Taken in the same school yr w CTIT16 Comp.Prog.2 Taken in the same school yr w CTIT13 Comp.Prog.1
*Geographic Inf. Systems (GIS) and *Raster Based Geo.Info.Systems (GIS)	10-12	CTIT54 and CTIT55 Taken consecutively	Sem. Sem.	1 1	Taken in the same school yr w CTIT55 RasterBased GIS Taken in the same school yr w CTIT54 GIS
PUBLIC SERVICE ENDORSEMENT OR MULTIDISCIPLINARY ENDORSEMENT					
Health Science Cluster					
Health Science Theory/ no Clinical and Pharmacology	11-12	CTHS12 and CTHS22 taken consequently in the same school yr.	Fall Sem. Spring Sem.	1 1	Tech. Certifications available: Red Cross First Aid/CPR/AED Prerequisites: Minimum C average in Principles of Health Science & Biology and Chemistry
Practicum in Pharmacy Technician	12	CHS92A & CHS92B	Yr.	2	Tech.Certs Available: Pharm.Tech PTCE & Natl.Sterile Products (IV) Prereqs: Biology AND either Health Science Theory-no Clinical w Pharmacology OR Health Sci Theory w Clinical
Human Services Cluster					
*Cosmetology 1 w Lab	11	CHU19A & CHU19B	Yr.	3	Cos.1 & Cos.2: 3 periods- AOC,MHS,NHS,SW, YP; 4 periods- Double blocked- SHS, WAIS
*Cosmetology 2 w Lab	12	CHU29A & CHU29B	Yr	3	Prerequisite: Successful completion of Cosmetology 1 including 4 required modules that convert to 500 clock hours.
Law, Public Safety and Security Cluster					
Criminal Justice	Grade	SBISD Course Codes	Sem/Yr	Credits	Comments
Law Enforcement 1 and Court Systems & Practices	10-12	CTLW11 and CTLW12 must be taken in the same school year.	Fall Sem. Spring Sem.	1 1	Law Enforcement 1 taken sequentially w CTLW 12 Court Systems. Court Systems is taken sequentially with CTLW11 Law Enforcement 1
Law Enforcement 2 and Criminal Investigation	11-12	CTLW21 and CTLW22 taken sequentially in the same school year.	Fall Sem. Spring Sem.	1 1	Prerequisites: Successful Completion of Law Enf. 1/ Court Systems CTLW22 Criminal Investigation must be a co-requisite of CTLW21 Law Enforcement 2
Forensic Science at Guthrie (State Approved 3rd Science Credit w required Science prerequisites.)	11-12	CTLW50	Sem.	1	May be taken concurrently with Law Enforcement 2. Recommended Prerequisites: Successful completion of Law Enf. 1/Court Systems Required Science Prereqs: Biology and Chemistry
Naval Junior Reserve Officer Training Corps					
NJROTC 1 and PE	9-12	NS102A & N102B & HP134A &HP134B taken concurrently	Yr.	2	Credits include 1 NJROTC elective credit & 1 PE credit for graduation.
NJROTC 2 and Student Leadership	10-12	NS202A & 202B & ADNS2A & ADNS2B taken concurrently	Yr.	2	Required Prereq: Successful completion of NJROTC 1. Credits include for 1 NJROTC & 1 for Student Leadership
NJROTC 3	11-12	NS302A & NS302B	Yr.	2	Required Prereq.: Successful completion of NJROTC 2.

NJROTC 4	12	NS402A & NS402B	Yr.	2	Required Prereq.: Successful completion of NJROTC 3.
Internships / Career Prep					
Internships/Career Prep 1	11-12	CPG81C&D	Yr.	3	Teacher Interview required.
Internships/Career Prep 2	12	CPG91C&D	Yr.	3	Required Prereq.: Successful completion of Internships 1.
GC Internship Off Campus 1 per.	11-12	ADCG1A and ADCG1B	Yr.	1	1 period Off Campus option w GC Internship for AOC, MHS, NHS, SWHS, YP
GC Internship Off Campus 2+ pers.	11-12	ADCG2A and ADCG2B	Yr.	2	2+ periods Off Campus w GC Internship for all HS Campuses