

PROGRAMS OF STUDY: HUMAN SERVICES, HEALTH & AG ACADEMY

Agriculture, Food & Natural Resources Cluster			
Animal Science Program of Study 3 Credits Required	Floral and Horticulture Design Program of Study 3 Credits Required	Veterinary Medical Applications Program of Study 4 Credit Required	Environmental Studies Program of Study 3 Credits Required
Required Courses (choose 3): Principles of Agriculture, Food & Natural Resources (9-12) Wildlife, Fisheries & Ecology Management (10-12) Livestock Production (10-12) Small Animal Management*/Equine Science*(10-12) Veterinary Medical Applications (11-12) Scientific Research & Design - Biotechnology (CPHS, LHS)	Choose 2 or more credits from the following: Horticulture Science*/Landscape Design & Turf Grass Management* (CPHS, LHS) (10-12) Interior Design (10-12) Principles & Elements of Floral Design (10-12) Choose 1 additional credit from the following if needed: AP Environmental Science or Environmental Systems (11-12) Art I (9-12) Principles of Agriculture, Food & Natural Resources (9-12) Earth and Space Science (11-12)	Required Courses: Veterinary Medical Applications (11-12) Practicum in Veterinary Medical Applications - (RHS, VHS) (12) Choose 1 additional credit from the following: Livestock Production (10-12) Small Animal Management*/Equine Science* (10-12)	Required Courses (choose 3): Principles of Agriculture, Food & Natural Resources (9-12) Wildlife, Fisheries, and Ecology Management (10-12) Wildlife, Fisheries, and Ecology Management (10-12) Advanced Environmental Technology (LHS, VRHS) (11-12) AP Environmental Science or Environmental Systems (11-12)
Supplemental Courses to Enhance Learning: Anatomy & Physiology Advanced (11-12) Biology AP, IB I, IB II (11-12) Professional Communications (10-12)	Supplemental Courses to Enhance Learning: Architectural Design (CPHS, LHS, RHS) (10-12) Concepts of Engineering & Technology (CPHS, LHS, RHS) (9-12) Introduction to Engineering Design (VHS, VRHS) (9-12) Professional Communications (10-12)	Supplemental Courses to Enhance Learning: Anatomy & Physiology Advanced (11-12) Principles of Agriculture, Food & Natural Resources (9-12) Professional Communications (10-12) Medical Microbiology*/Pathophysiology* (11-12) Medical Terminology*/Pharmacology* (11-12)	Supplemental Courses to Enhance Learning: Chemistry AP or Chemistry I-II IB (LHS) (11-12) Earth and Space Science (11-12) Professional Communications (10-12) Scientific Research & Design - Biotechnology (CPHS, LHS)
Certification and/or College Credit: Angler Certification Hunter/Boater Safety Certification Certified Veterinary Assistant College Credit: Tech Prep Courses for Articulated Credit Dual Credit	Certification and/or College Credit: Texas State Florists' Association Student Certification Pesticide Applicator Certification College Credit: AP Coursework	Certification and/or College Credit: Certified Veterinary Assistant	Certification and/or College Credit: Angler Certification Hunter/Boater Safety Certification College Credit: AP/IB Coursework
Extracurricular: FFA 4H Animal Shelter Volunteer COOL Week Internship	Extracurricular: FFA 4H Community Garden COOL Week Internship	Extracurricular: FFA HOSA Animal Shelter Volunteer COOL Week Internship	Extracurricular: FFA 4H Environmental Club COOL Week Internship
Post-Secondary: Animal Science Agriculture Systems Dairy Science Poultry Science	Post-Secondary: Floriculture Horticulture Environmental Design Landscape Design	Post-Secondary: Biomedical Science Veterinary Pathology Veterinary Public Health Epidemiology	Post-Secondary: Environmental Studies Ecological Restoration Renewable Resources Recreation & Park Sciences
Careers: Ag Extension Agent Natural Resources Mgr. Poultry Hatchery Manager Veterinary Technician	Careers: Florist Landscape Architect Plant Geneticist Golf Course Manager	Careers: Animal Nutritionist Animal Trainer Veterinarian Veterinary Pathologist	Careers: Conservationist Urban Planner Game Warden National Park Manager

Education & Training Cluster	
Education Program of Study 3 Credits Required	
Required Courses: Instructional Practice in Education and Training - Ready, Set, Teach! I (11-12) Practicum in Education and Training - Ready, Set, Teach! II- (12)	
Supplemental Courses to Enhance Learning: Art I (9-12) Child Development (10-12) Counseling and Mental Health (10-12) Leadership* (CPHS, LHS, VHS) (9-12) or RAP* (RHS, VHS) (10-12) Lifetime Nutrition & Wellness (10-12) PALS I - Peer Assistance and Leadership I (11-12) Principles of Human Services*/Interpersonal Studies* (9-11) Professional Communications or Communication Applications* (10-12)	
Certification and/or College Credit: College Credit: Tech Prep Courses for Articulated Credit	
Extracurricular: FCCLA Key Club PALS COOL Week Internship	
Post-Secondary: Elementary Education Instructional Media Special Education Bilingual Education	
Careers: Teacher Librarian Day Care Administrator School Counselor	

Human Services Cluster		
Cosmetology Program of Study 6 Credits Required	Counseling & Mental Health Program of Study 3 Credits Required	Human Relations Program of Study 3 Credits Required
Required Courses: Cosmetology I (3 Credits) (LHS) (11-12) Cosmetology II (3 Credits) (LHS) (12)	Required Courses: Principles of Human Services*/Interpersonal Studies* (9-11) Counseling and Mental Health (10-12) Choose 1 additional credit from the following: Child Development (10-12) Instructional Practice in Education and Training - Ready, Set, Teach! I (11-12) Investigations in Psychology*/Psychology AP* (CPHS, VRHS) (11-12) PALS I - Peer Assistance and Leadership I (11-12) Psychology I IB (LHS) (11-12)	Required Courses (choose 3): Child Development (10-12) Human Resources Management* (11-12) Instructional Practice in Education and Training - Ready, Set, Teach! I (11-12) Investigations in Psychology*/Psychology AP* (CPHS, VRHS) (11-12) or Psychology I-II IB (LHS) (11-12) Leadership* (CPHS, LHS, VHS) (9-12) or RAP* (RHS, VRHS) (10-12) PALS I - Peer Assistance and Leadership I (11-12) PALS II - Peer Assistance and Leadership II (12) Principles of Human Services*/Interpersonal Studies* (9-11)
Supplemental Courses to Enhance Learning: Accounting I (11-12) Anatomy & Physiology Advanced (11-12) Chemistry (10-12) Communication Applications* (10-12) Professional Communications (10-12) Health* (9-12) Principles of Human Services*/Interpersonal Studies* (9-11) Principles of Business, Marketing, & Finance (9-12)	Supplemental Courses to Enhance Learning: Anatomy & Physiology Advanced (11-12) Communication Applications* (10-12) Health* (9-12) Medical Terminology*/Pharmacology* (11-12) Practicum in Education and Training - Ready, Set, Teach! II- (12) Principles of Health Science I (11-12)	Supplemental Courses to Enhance Learning: Note: For one credit towards this program of study, students may substitute a maximum of 2 years of participation in the same extracurricular activity. The following activities are approved for substitution and must be documented by enrollment in the course and/or sponsor verification: Athletics, AVID, Band, Cheerleading, Choir, Color Guard, Debate, Dance Team, Technical Theatre, Theatre Productions, and JROTC.
Certification and/or College Credit: State of Texas Cosmetology License (upon passing the state exam)	Certification and/or College Credit: College Credit: Tech Prep Courses for Articulated Credit AP/IB Coursework	Certification and/or College Credit: College Credit: Tech Prep Courses for Articulated Credit AP/IB Coursework
Extracurricular: SkillsUSA Key Club FCCLA COOL Week Internship	Extracurricular: FCCLA Big Brothers/Big Sisters PALS COOL Week Internship	Extracurricular: FCCLA Miracle League Volunteer Key Club COOL Week Internship
Post-Secondary: Applied Science for Cosmetology	Post-Secondary: Clinical Psychology Family Psychology Social Worker Forensic Psychology	Post-Secondary: Human Resource Dev. Human Services Public Administration Youth Services
Careers: Nail Technician Esthetician Make-Up Artist Salon/Spa Manager	Careers: Psychologist Counselor Social Worker Psychiatrist	Careers: Career Counselor Human Resources Officer Outdoor Recreation Specialist Peace Corps.

PROGRAMS OF STUDY: HUMAN SERVICES, HEALTH & AG ACADEMY

Health Science Cluster				
Biotechnology	Fitness & Wellness	Health Science Technology	Medical Sciences	Sports Medicine
Program of Study	Program of Study	Program of Study	Program of Study	Program of Study
3 Credits Required	3 Credits Required	3 Credits Required	3 Credits Required	3 Credits
Required Courses: Chemistry (10-12) Scientific Research & Design - Biotechnology (CPHS, LHS) (11-12) Choose 1 additional credit from the following: Biology AP or Biology I IB (LHS) (11-12) Biology II IB (LHS) (12) Chemistry AP or Chemistry I IB (LHS) (11-12) Chemistry II IB (LHS) (12) Environmental Science AP or Environmental Systems (11-12) Horticulture Science* (10-12) Livestock Production (10-12) Medical Microbiology*/Pathophysiology* (11-12) Pharmacology* (11-12) Small Animal Management*/Equine Science* (10-12)	Required Courses (choose 3): Child Development (10-12) Health Science (11-12) Investigations in Psychology*/Psychology AP* (CPHS, VRHS) (11-12) Lifetime Nutrition & Wellness (10-12) Medical Microbiology*/Pathophysiology* (11-12) Medical Terminology*/Pharmacology* (11-12) Psychology I IB (LHS) (11-12) Sports Medicine I (9-10) Sports Medicine II (10-11)	Required Courses: Health Science (11-12) Practicum in Health Science- (12)	Required Courses (choose 3): Anatomy & Physiology Advanced (11-12) Biology AP or Biology I IB (LHS) (11-12) Biology II IB (LHS) (12) Health Science I (11-12) Medical Microbiology*/Pathophysiology* (11-12) Medical Terminology*/Pharmacology* (11-12) Scientific Research & Design - Biotechnology (CPHS, LHS) (11-12)	Required Courses: Three credits in Sports Medicine/Athletic Training (9-12)
Supplemental Courses to Enhance Learning: Business Information Management I (9-12) Communication Applications* (10-12)	Supplemental Courses to Enhance Learning: Note: For one credit towards this program of study, students may substitute a maximum of 2 years of participation in the same extracurricular activity. The following activities are approved for substitution and must be documented by enrollment in the course and/or sponsor verification: Athletics, AVID, Band, Cheerleading, Choir, Color Guard, Debate, Dance Team, Technical Theatre, Theatre Productions, and JROTC.	Supplemental Courses to Enhance Learning: Anatomy & Physiology Advanced (11-12) Biology AP or Biology I, II IB (LHS) (11-12) Chemistry (10-12) Child Development (10-12) Counseling and Mental Health (10-12) Leadership* (CPHS, LHS, VHS) (9-12) or RAP* (RHS, VRHS) (10-12) Lifetime Nutrition and Wellness (10-12) Medical Microbiology*/Pathophysiology* (11-12) Medical Terminology*/Pharmacology* (11-12) Scientific Research & Design - Biotechnology (CPHS, LHS) (11-12) Sports Medicine I-II (9-11)	Supplemental Courses to Enhance Learning: Calculus AB AP (12) or Mathematics IB (LHS) (12) Chemistry AP or Chemistry I-II IB (LHS) (11-12) Chemistry (10-12) Counseling and Mental Health (10-12) Leadership* (CPHS, LHS, VHS) (9-12) or RAP* (RHS, VRHS) (10-12) Lifetime Nutrition and Wellness (10-12) Physics (11-12) Physics AP or Physics I-II IB (LHS) (11-12) Practicum in Health Science- (12) Pre-calculus (11-12) Sports Medicine I - II (9-11)	Supplemental Courses to Enhance Learning: Anatomy & Physiology Advanced (11-12) Biology (9-12) Biology AP, Biology I-II IB (LHS) (11-12) Counseling and Mental Health (10-12) Health* (9-12) Health Science (11-12) Lifetime Nutrition and Wellness (10-12) Medical Microbiology*/Pathophysiology* (11-12) Medical Terminology*/Pharmacology* (11-12)
Certification and/or College Credit: College Credit: Tech Prep Courses for Articulated Credit AP/IB Coursework Dual Credit	Certification and/or College Credit: CPR/First Aid/AED Certification College Credit: Tech Prep Courses for Articulated Credit AP/IB Coursework	Certification and/or College Credit: Certified Nursing Assistant CPR/First Aid/AED Certification Phlebotomy Certification College Credit: Tech Prep Courses for Articulated Credit	Certification and/or College Credit: CPR/First Aid/AED Certification College Credit: Tech Prep Courses for Articulated Credit AP/IB Coursework Dual Credit	Certification and/or College Credit: CPR/First Aid/AED Certification
Extracurricular: HOSA Environmental Club FFA COOL Week Internship	Extracurricular: HOSA YMCA volunteer FCCLA COOL Week Internship	Extracurricular: HOSA Adventures in Medicines Program @ Cedar Park RMC COOL Week Internship	Extracurricular: HOSA Adventures in Medicines Program @ Cedar Park RMC COOL Week Internship	Extracurricular Opportunities: S.W.A.T.A. Student Memb. CTATS Miracle League Volunteer COOL Week Internship
Post-Secondary: Biomedical Science Molecular and Cell Biology Microbiology Clinical Laboratory Science	Post-Secondary: Health & Physical Fitness Fitness Administration Kinesiology Personal Training	Post-Secondary: Medical Technology Nursing Public Health Allied Health	Post-Secondary: Biomedical Science Pre-medicine Pre-veterinary Studies Pre-pharmacy	Post-Secondary: Sport Management Physical Therapy Kinesiotherapy Therapeutic Recreation
Careers: Forensic Scientist Lab Technician Research Scientist Geneticist	Careers: Dietician Physical Therapist Personal Trainer Pharmaceutical Sales Rep.	Careers: Nurse Practitioner EMT Pharmacy Technician Phlebotomist	Careers: Anesthesiologist Dentist Physician Surgeon	Careers: Athletic Trainer Exercise Physiologist Sports Nutritionist Physical Therapist

Law, Public Safety & Security Cluster

Criminal Justice Technology	Military Service
Program of Study	Program of Study
3 Credits Required	4 Credits Required
Required Courses (Dual Credit Only): Introduction to Criminal Justice* (ACC - CRJ 1301) Crime In America* (ACC - CRJ 1307) Courts and Criminal Procedures* (ACC - CRJ 1306) Juvenile Justice System* (ACC - CRJ 1313) Choose 1 additional credit from the following: Communication Applications* (10-12) Counseling and Mental Health (10-12) Leadership* (CPHS, LHS, VHS) (9-12) or RAP* (RHS, VRHS) (10-12) Principles of Human Services*/Interpersonal Studies* (9-11)	Required Courses: AFJROTC I-III (LHS) or NJROTC I-III (VRHS) (9-12) Choose 1 additional credit from the following: AFJROTC IV (LHS) or NJROTC IV (VRHS) (12) Communication Applications* (10-12) Courts and Criminal Procedures* (ACC - CRJ 1306) Crime In America* (ACC - CRJ 1307) Human Resources Management* (11-12) Introduction to Criminal Justice* (ACC - CRJ 1301) Juvenile Justice System* (ACC - CRJ 1313) Leadership* (CPHS, LHS, VHS) (9-12) or RAP* (RHS, VRHS) (10-12) Professional Communications (10-12)
Supplemental Courses to Enhance Learning: Scientific Research & Design - Biotechnology (CPHS, LHS) (11-12) Foreign Language credit JROTC 1 (9-12)	
Certification and/or College Credit: College Credit: Dual Credit	Certification and/or College Credit: College Credit: Dual Credit
Extracurricular Opportunities: JROTC	Extracurricular Opportunities: JROTC
Post-Secondary: Criminal Justice Criminal Science Prelaw Studies Corrections Administration	Post-Secondary: Military Technologies Emergency Management/Homeland Security
Careers: Criminal Investigator Lawyer Probation Officer Police Officer	Careers: Career opportunities vary based on career assessments/specialization/military branch

