

Career & Technical Education Programs of Study 2023-24

Agriculture, Food, and Natural Resources

Plant Science	8705 Principles of Agriculture (1 credit)	8417 Horticulture Science (1 cr) <u>AND</u> 8416 Floral Design (fine art) (1 cr)	8459 Adv Floral Design (1 cr) <u>AND</u> 8436 Advanced Plant and Soil Science (science cr) (1 cr)	8419 Practicum in Horticulture (2 Credits)
Animal Science	8705 Principles of Agriculture (1 credit)	8406 Livestock Prod (1 cr) <u>AND</u> 8408 Equine Science (.5 cr) 8545 Small Animal Mgt (.5 cr)	8410 Vet Med Applications (1 cr) <u>AND</u> 8409 Adv Animal Science (science credit) (1 cr)	8411 Practicum in Ag Science (2 Credits) <u>OR</u> 8725 Practicum of Veterinary Tech (2 Credits)

Architecture and Construction

Construction	8542 Business Info Mgt (1 credit)	8441 (8641 & 8642) Construction Tech I (D) (2 credits)	8442 Construction Tech II (2 credits)	8458 Pract Construction Technology (2 credits)
Electrical	8542 Business Info Mgt (1 credit)	8441 (8641 & 8642) Construction Tech I (D) (2 credits)	8443 Electrical Tech I D (1 cr) & 8444 Electrical Tech II D (1 cr)	8008(f) & 8009 (s) Practicum Electrical Tech D
HVAC/Plumbing	8542 Business Info Mgt (1 credit)	8441 (8641 & 8642) Construction Tech I (D) (2 credits)	8612 Practicum in HVAC <u>AND/OR</u> 8461 Practicum Plumbing Technology	

Arts, AV Technology and Communications

3-D Animation	8709 Principles of Art, AV, and Communication (1 cr)	8465 Animation I (fine art) (1 credit)	8455 Animation II with Lab (2 credits)	8467 Practicum in Anim (2 credits)
Audio & Video Production	8709 Principles of Art, AV, and Communication (1 cr)	8479 Audio/Video Prod I (2 credits)	8472 A/V Production II with Lab (2 credits)	8622 Pract in A/V Production (2 credits)
Graphic Design	8709 Principles of Art, AV, and Communication (1 cr)	8633 Graphic Design & Illustration I (1 credits)	8452 Graphic Design & Illustration II (2 credits)	8625 Practicum in Graphic Design (2 credits)
Fashion Design	8709 Principles of Art, AV, and Communication (1 cr)	8457 Fashion I (fine art credit) (2 credits)	8454 Fashion II (2 credits)	8477 Practicum in Fashion (2 credits)

Business, Marketing and Finance

Business Management	8542 Business Info Mgt (1 credit)	8486 (4412 S) Principles of Business, Marketing & Finance (D) (1 credit) <u>AND/OR</u> 8122 Business Info Mgt II (1 cr)	8490 (4239 S) Business Management (D) (1 credit) <u>May Additionally Take:</u> 8489 (4240 S) Business Law (D) (1 credit)	8403 Career Prep (3 credits) <u>AND</u> 2799 Career Prep Employment
Administrative Office Assistant	8542 Business Info Mgt (1 credit)	8652 (F) <u>AND</u> 4245 (S) Business Info Management II D <u>May Additionally Take:</u> 8506 Money Matters	8507 Accounting I (F) 4492 Accounting I D (S) <u>AND</u> 8122 Financial Math (F) 4503 Financial Math D (S)	8403 (F) Career Prep (1.5 cr) <u>AND</u> 8015 (S) Career Prep D (1.5 cr) <u>May Additionally Take:</u> 8508 Accounting II

Education and Training

Early Learning	8503 Principles of Education and Training (1 credit)	8698 Child Development (1 credit)	8667 (4286 F <u>AND</u> 4287 S) Child Guidance (D) (2 cr)	8678 (4288 F & 4289 S) Prac of Early Learning (D) (2 cr)
Teaching	4292 College Readiness and Study Skills D (F)	4294 F <u>AND</u> 4295 S Instructional Practices D (2 credit)	4296 F <u>AND</u> 4297 S Practicum in Education & Training I D (2 credits)	4298 F <u>AND</u> 4299 S Practicum in Education and Training II D (2 credits)

Energy/Oil and Gas

Occupational Safety & Environ Tech	8542 Business Information Management (1 credit)	4304 OSET I D (1 credit) <u>AND</u> 8694 Foundations of Energy D (1 cr)	8810 OSET 2 D (1 credit) <u>AND</u> 8695 Petrochemical Safety, Health & Environment	4308 (F) & 4309 (S) OSET 3 (2 credits)
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Hospitality and Tourism

Culinary Arts	8605 Principles of Hospitality & Tourism(1 cr)	8527 Culinary Arts (2 credits) 4270 Culinary Arts D (S)	8422 (4272 F <u>AND</u> 4273 S) Adv Culinary Arts (D) (2 cr)	8528 (4274 F <u>AND</u> 4275 S) Practicum Culinary Arts (D) (2 cr)
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Human Services

Cosmetology	8542 Business Info Mgt (1 credit)	8122 Business Info Management II (1 credit)	4254 (F) <u>AND</u> 4255 (S) Cosmetology I D (2 cr) <u>AND</u> 4252 (F) <u>AND</u> 4253 (S) Intro to Cosmetology D (1 cr)	4256 (F) <u>AND</u> 4257 (S) Cosmetology II D (3.0)
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Health Sciences

Healthcare Diagnostics	8708 Principles of Health Science (1 credit)	8514 Medical Terminology (1 credit) <u>AND</u> 8365 Diagnostics (1 credit)	8466 Health Science Clinical (2 credits)	8722 Phlebotomy (1 cr) 8720 Prac EKG (1cr) 8721 Medical Assistant (2 cr) 8517 Pharmacy Tech (2 cr) 8724 Dental Assistant (2 cr) 8516 Certified Nursing Asst (2 cr) 4593 Emergency Medical Technician D (Spring only) 1 cr
Licensed Vocational Nurse	8708 Principles of Health Science (1 credit)	8514 Medical Terminology (1 cr) <u>AND</u> 8365 Diagnostics (1 credit)	4281 (F) LVN HST D (1.5 cr) <u>AND</u> 4281 (S) Licensed Vocational Nurse D (1.5 cr)	4282 (F) <u>AND</u> 4283 (S) Licensed Vocational Nurse II D (3 credits)

Information Technology

Computer Science	3496 Computer Science Principles (1 credit)	2496 Computer Science 1 (1 credit) <u>OR</u>	2494 Computer Science 2 (1 credit)	4494 Computer Science 3 (1 credit)
IT Support Specialist	3496 Computer Science Principles (1 credit)	2496 Computer Science 1 (1 credit)	4232 Principles of IT D <u>AND</u> 4233 Computer Maintenance D (2 credits)	4234 Computer Tech D <u>AND</u> 4235 Computer Tech Practicum D (2 credits)

Law and Public Service

Fire Academy	8708 Principles of Health Science (1 credit)	8514 Medical Terminology (1 credit) <u>AND</u> 8365 Diagnostics (1 credit)	4222 <u>AND</u> 4223 Firefighter I D (2 credits)	4224 (F) Firefighter II D <u>AND</u> 4593 (S) Emergency Medical Technician D (3 credits)
Criminal Justice	8542 Business Info Mgt (1 credit)	8122 Business Information Management II (1 credit)	4260 Principles of CJ D <u>AND</u> 4261 Criminal Justice I D (2 cr)	4262 Criminal Justice II D <u>AND</u> 4263 Practicum of CJ D (2 cr)
Paralegal	8542 Business Info Mgt (1 credit)	4216 Principles of Law & Public Safety D <u>AND</u> 4217 Legal Research & Writing D (2 credits)	4218 <u>AND</u> 4219 Practicum of Paralegal I D (2 credits)	4220 <u>AND</u> 4221 Practicum in Paralegal II D (2 credits)
Law Enforcement	8542 Business Info Mgt (1 credit)	8122 Business Information Management II (1 credit)	4264 Principles of Law Enforcement D <u>AND</u> 4265 Law Enforcement I D (2 cr)	4266 Law Enforcement II D <u>AND</u> 4267 Practicum of Law Enforcement D (2 cr)

Manufacturing

Engineering	8587 Intro to Engineering Design (1 credit)	8588 Engineering Science (science) (1 credit)	8591 Aerospace Engineering (1.0) <u>AND/OR</u> 8590 Civil Engineering Architecture (1.0)	
Robotics	3496 Computer Science Principles (1 credit) <u>OR</u> 8542 Business Info Mgt (1cr)	8597 (4244 S) Robotics 1 <u>OR</u> 8797 Robotics 1 J (Middle School) (1 credit)	8129 Robotics 2 (1 credit)	8687 Robotics 3 (2 credits)
Welding	8663 Introduction to Welding (1 credit) - OHS 8542 Business Info Mgt (1 credit) - PHS	8560 (4210 F <u>AND</u> 4211 S) Welding I (D) (2 credits)	8561 (4212 F <u>AND</u> 4213 S) Welding II (D) (2 credits)	8564 (4214 F <u>AND</u> 4215 S) Practicum in Welding (D) (2 credits)

STEM

Biomedical Sci (PHS Only)	8447 Prin of Biomedical Science (1 credit)	8446 Human Body Systems (1 credit)	8445 Medical Interventions (1 credit)	8435 Biomedical Innovation (1 credit)
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Transportation, Distribution, and Logistics

Auto / Diesel Technology	8542 Business Info Mgt (1 credit)	8425 (4641 F AND 4642 S) Auto Tech I (D) (2 credits)	8426 (4643 F AND 4644 S) Auto Tech II (D) (2 credits)	8429 (4645 F AND 4646 S) Practicum in Auto Technology D (2 credits)
Auto Collision & Repair	8542 Business Info Mgt (1 credit)	8427 Collision Repair (2 credits)	8428 Paint and Refinishing (2 credits)	8431 Pract in Collision & Repair (2 credits)

**** Courses in gray are not mandatory prerequisites, but are suggested for success in the pathway.**

Other CTE Courses: 8488 Dollars and Sense (.5 elective cr), 2663 Business English (4th english cr), 8127 Financial Math (math cr), 8680 Math for Innovators (math cr), 8552 Forensic Science (science cr), 8618 Anatomy & Physiology (science cr),