

Career & Technical Education Pathways 2020-21

Agriculture, Food, and Natural Resources

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

Architecture and Construction

Construction	8606 Principles of Construction (1 credits)	8441 Construction Tech I (2 credits)	8442 Construction Tech II (2 credits)	8458 Pract Construction Technology (2 credits)
Plumbing and Pipe Fitting	8606 Principles of Construction (1 credits)	8441 Construction Technology I (2 credits)	8613 Plumbing Tech I (1 cr) <u>AND</u> 8630 Plumbing Tech II (1 cr)	8632 Practicum of Construction - Plumbing (2 credits)
HVAC	8606 Principles of Construction (1 credits)	8441 Construction Technology I (2 credits)	8616 HVAC and Refrigeration Technology I (1 credit) <u>AND</u> 8617 HVAC and Refrigeration Technology II (1 credit)	8612 Practicum of Construction - HVAC (2 credits)

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 (8480) A/V Prod II with Lab (D) (2 credits)	8622 (8628) Pract in A/V Production (D) (2 credits)
Graphic Design	8709 Principles of Art, AV, and Communication (1 cr)	8633 Graphic Design & Illustration I (1 credits)	8452 Graphic Dsn & Illustration II (2 credits)	8625 Practicum in Graphic Desin (2 credits)
Fashion Design	8709 Principles of Art, AV, and Communication (1 cr)	8457 Fashion Design I (fine art) (2 credits)	8454 Fashion Design II (2 credits)	8477 Pract in Fashion Design (2 credits)

Business, Marketing and Finance

Business Management	8542 Business Info Mgt (1 credits)	8486 (8412) Principles of Business, Marketing & Finance (D) (1 credit) <u>AND/OR</u> 8122 Bus Info Mgt II (1 credit)	8489 (8689) Business Law (D)(1 credit) <u>AND/OR</u> 8490 (8414) Business Management (D) (1 credit)	8491 (8496) Practicum Business Management (D) (2 credits) 8127 Financial Math (1 credit)
Business Finance and Accounting	8542 Business Info Mgt (1 credits)	8486 (8412) Principles of Business, Marketing & Finance (D) (1 credit) <u>AND/OR</u> 8122 Bus Info Mgt II (1 credit)	8507 Accounting I (1 credit) <u>AND/OR</u> 8506 Money Matters (1 credit)	8508 Accounting II (1 credit) 8492 (8413) Entrepreneurship (D) (1 credit) 8127 Financial Math (1 credit)
Career Prep	8542 Business Info Mgt (1 credits)	8122 Business Info Management II	8403 Career Prep 1 (3 credits)	8404 Career Prep II (3 credits)

Education and Training

Early Learning	8503 Principles of Education and Training (1 credit)	8698 Child Development (1 credit)	8667 (8668) Child Guidance (D) (2 credits)	8678 (8681) Prac of Early Learning (D) (2 credits)
Teaching	8503 Principles of Education and Training (1 credit)	8698 Child Development (1 credit)	8005 Instructional Practices D (2 credit)	8704 Prac in Education & Training I D (2 credits)

Energy/Oil and Gas

Occupational Safety & Env Tech. - OSET	8542 Business Info Mgt (1 credits)	8813 OSET 1 D (1 credit) <u>AND</u> 8694 Foundations of Energy D (1 credit)	8810 OSET 2 D (1 credit) <u>AND</u> 8695 Petrochemical Safety, Health & Environment (1 credit)	8576 OSET 3 D (2 credits)
Electronics/ Energy Tech	3496 Computer Science Principles	8598 AC/DC Electronics D (1 credit) <u>AND</u> 8443 Electrical Tech D (1 credit)	8596 Solid State Electronics D (1 credit) <u>AND</u> 8593 Digital Electronics D (1 credit)	8691 Introduction to Process Technology (1 credit) <u>AND</u> 8692 Engineering Design and Problem Solving (1 credit)

Hospitality and Tourism

Culinary Arts	8605 Principles of Hospitality and Tourism (1 credits)	8527 Culinary Arts (2 credits) (8537 Culinary Arts D offered spring only)	8422 (8512) Adv Culinary Arts (D) (2 credits)	8528 (8538) Practicum Culinary Arts (D) (2 credits)
Hotel and Resort Management	8605 Principles of Hospitality and Tourism (1 credits)	6887 Hotel Mgt D (1 cr) 6888 Travel and Tourism Management D (1 cr)	6889 Hospitality Services D (2.0 credits)	6890 Practicum in Hospitality Services D (2.0 credits)

Health Sciences

Health Sciences	8708 Principles of Health Science (1 credit)	8514 Medical Terminology (1 credit) AND 8665 World Health Research (1 credit)	8466 Health Science Clinical (2 credits)	8722 Phlebotomy/EKG (1 cr) 8720 Bio Engineering (1 cr) 8721 Medical Assistant (2 cr) 8517 Pharmacy Tech (2 cr) 8724 Dental Assistant (2 cr)
Certified Nursing Assistant	8708 Principles of Health Science (1 credit)	8514 Medical Terminology (1 credit) AND 8665 World Health Research (1 credit)	8466 Health Science Clinical (2 credits)	8516 Certified Nursing Assistant (1.0) AND 1-2 of the following: 8722 Phlebotomy/EKG (1 cr) 8720 Prac Bio Engineer (1 cr)
Licensed Vocational Nurse	8708 Principles of Health Science (1 credit)	8514 Medical Terminology (1 credit) AND 8665 World Health Research (1 credit)	8535 Licensed Vocational Nurse D (3.0 credits)	8536 Licensed Vocational Nurse II D (3 credits)
Emergency Medical Technician	8542 Business Info Mgt (1 credits)	8708 Principles of Health Science (1 credit)	8514 Medical Terminology (1 credit) AND 8665 World Health Research (1 credit)	8522 Emergency Medical Tech D (Spring) (1.0) 8618 Anatomy & Physiology (science credit)

Human Services

Cosmetology	8542 Business Info Mgt (1 credits)	8122 Business Info Management II (1 credit)	8540 Cosmetology I D (2 cr) AND 8438 Intro to Cosmetology D (1 cr) (3 credits)	8541 Cosmetology II D (2.0) AND 8437 Principles of Cosmetology D (1.0) (3 credits)
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Information Technology

Computer Science	3496 Computer Science Principles	2496 Computer Science 1 (1 credit)	2494 Computer Science 2 (1 credit)	4494 Computer Science 3 (1 credit)
Internetworking Tech - CISCO	3496 Computer Science Principles	8600 Internetworking Technology I D (2 credits)	8601 Internetworking Technology II D (2 credits)	8635 Practicum of Information Technology (2 credits)

Law and Public Service

Fire Academy	8708 Principles of Health Science (1 credit)	8514 Medical Terminology (1 credit) AND 8665 World Health Research (1 credit)	8555 Firefighter I D (2 credits)	8556 Firefighter II D (includes EMT) (3 credits)
Criminal Justice	8542 Business Info Mgt (1 credits)	8122 Business Information Management II (1 credit)	8449 Court Systems and Practices D AND 8550 Criminal Justice I D (2 credits)	8551 Criminal Justice II D AND 8474 Criminal Investigation D (2 credits)
Paralegal	8542 Business Info Mgt (1 credits)	8716 Principles of Law & Public Safety D AND 8734 Legal Research & Writing D (2 credits)	8733 Practicum of Paralegal I D (2 credits)	8717 Practicum in Paralegal II D (2 credits)
Forensics (CSI)	8542 Business Info Mgt (1 credits)	8122 Business Information Management II (1 credit)	8451 CSI 1 D AND 8464 Criminalistics 1 D (2 credits)	8460 CSI 2 D AND 8469 Criminalistics 2 D (2 credits)

Manufacturing

Engineering	8587 Intro to Engineering Design (1 credit)	8588 Engineering Science (science) (1 credit)	8591 Aerospace Engineering (1.0) AND/OR 8590 Civil Engineering Architecture (1.0)	
Robotics	3496 Computer Science Principles	8597 Robotics 1 (1 credit)	8129 Robotics 2 (1 credit)	8687 Robotics 3 (2 credits)
Welding	8663 Introduction to Welding (1 credit)	8560 (8660) Welding I (D) (2 credits)	8561 (8661) Welding II (D) (2 credits)	8564 (8664) 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 Technology	8690 Prin of Transportation Systems (1 cr)	8425 (8423) Auto Tech I (D) (2 credits)	8426 (8424) Auto Tech II (D) (2 credits)	8429 (6867) Practicum in Auto Technology D (2 credits)
Auto Collision & Repair	8690 Prin of Transportation Systems (1 cr)	8427 Collision Repair (2 credits)	8428 Paint and Refinishing (2 credits)	8431 Pract in Collision & Repair (2 credits)

**** Courses in grey are not mandatory pre-requisites, but are suggested for success in the pathway.**

Other CTE Courses: 8488 Dollars and Sense (.5 elective cr), 8723 Web Technologies (1.0 elective cr), 2663 Business English (4th english cr), 8122 Financial Math (math cr), 8680 Math for Innovators (math cr), 8552 Forensic Science (science cr), 8618 Anatomy & Physiology (science cr)