

**COWLEY COLLEGE COURSES AVAILABLE TO KANSAS HIGH SCHOOL STUDENTS
COVERED BY KANSAS EXCEL in CTE INITIATIVE MAY, 2025**

ACCOUNTING		Course Name	Credit hours
ACC	1111	Fundamentals of Accounting	3
ACC	1120	Payroll Accounting	2
ACC	1130	Accounting with QuickBooks	3
ACC	1162	Financial Accounting	4
ACC	1165	Managerial Accounting	3
AGRICULTURE			
AGR	1200	GPS & GIS	3
AGR	1201	Introduction to Precision Agriculture	3
AGR	1202	Precision Hardware and Software	3
AGR	1203	Remote Sensing, Mapping & Management	3
AGR	1204	Precision Agriculture Systems	3
AGR	1205	Ag Aerial Systems	3
AGR	1206	Ag Electrical & Electronics	3
AGR	1207	Data Collection & Interpretation	3
AGR	1214	Ag Construction & Welding	3
AGR	1216	Animal Health	3
AGR	1217	Introduction to Horticulture	3
AGR	1220	Beef Production	3
AGR	1221	Small Ruminant Production	3
AGR	1223	Animal Reproduction & Artificial Insemination	4
AGR	1225	Swine Production	3
AGR	1226	Animal Reproduction	3
AGR	1227	Livestock Artificial Insemination	3
AGR	1228	Livestock Production	3
AGR	1248	Agricultural Work Experience I	1
AGR	1250	Animal Nutrition	3
AGR	1253	Animal Diseases & Prevention	3
AGR	1255	Fundamentals of Food Science	3
AGR	1257	Agriculture Business Management	3
AGR	1258	Marketing of Agricultural Products	3
AGR	1259	Crop Inspection & Management Techniques	3
AGR	1260	Applied Entomology & Pest Management	3
AGR	1261	Agriculture Chemicals & Fertilizer	3
AGR	1262	Crop Production & Management	4
AGR	1263	Cotton Production	4
AGR	1264	Farm Management	3
AGR	1265	Weed Science	3
AGR	1266	Crop & Plant Science	4
AGR	1267	Principles of Animal Science	3
AGR	1268	Animal Science & Industry	1

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AGR	1270	Equine Production I	3
AGR	1271	Equine Production II	3
AGR	1272	Equine Business Management	3
AGR	1273	Equine Evaluation	3
AGR	1275	Animal & Meat Evaluation	3
AGR	1276	Livestock Rations	3
AGR	1277	Agricultural Work Experience II	1
AGR	1278	Principles of Sales in Agriculture	3
AGR	1279	Pasture and Range Management	4
AGR	1280	Soils for Production	3
AGR	1285	Agricultural Structures	3
ALLIED HEALTH			
ALH	1655	Medical Terminology	3
ALH	5202	Certified Medication Aide	4
ALH	5203	Home Health Aide	1
ALH	5210	Restorative Aide	2
ALH	5212	Certified Nursing Assistant	6
ALH	5230	Pharmacology	3
ALH	5236	Pathophysiology (Allied Health)	4
ALH	5237	Principles of Phlebotomy	3
ALH	5238	Phlebotomy Field Experience	1
ALH	5240	Current Procedural Terminology CPT	3
ALH	5241	Reimbursement Methodologies Physician	3
ALH	5242	International Class of Disease IDC	3
ALH	5244	Intro to Health Information	3
ALH	5249	Health Care Coding Practicum	3
AUTOMOTIVE			
AMS	3117	Electrical I	3
AMS	3118	Electrical II	6
AMS	3127	Hybrid & Alternative Fuel Technology	3
AMS	3128	Engine Performance I	3
AMS	3129	Engine Performance II	6
AMS	3136	Suspension & Steering Systems	3
AMS	3137	Automatic Transmissions	5
AMS	3138	Suspension/Steering Systems II	2
AMS	3148	Manual Transmissions	4
AMS	3149	Brakes I	3
AMS	3150	Brakes II	1
AMS	3156	Automotive Engine Repair	5
AMS	3182	Heating and Air Conditioning	4
BIOLOGY			
BIO	4155	Pathophysiology (Bio)	4

BUSINESS			
BUS	1311	Introduction to Business	3
BUS	1350	Business Law	3
BUS	1420	Introduction to Management	3
BUS	1425	Human Resource Management	3
BUS	1430	Introduction to Marketing	3
CHILD CARE & DEVELOPMENT			
CHC	5711	Development of the Young Child	3
CHC	5715	Interaction Tech with Young Children	3
CHC	5717	Early Childhood Education	3
CHC	5719	Creative Activities for Young Children	3
CHC	5721	Nutrition and Health Early Childhood	3
CHC	5732	Child Care Practicum I	3
CHC	5734	Child Care Practicum II	3
CHC	5735	Child Care Admin & Organization	3
CHC	5736	Child Care Development Portfolio	2
CHC	5740	Infant & Toddler Care	3
COMPUTER GRAPHICS			
CGA	2013	Design Software	3

COMPUTER SCIENCE & PROGRAMMING/NETWORKING			
CAP	1752	Microsoft Access	3
CIS	1753	Android App Development 1	3
CIS	1754	Android App Development 2	3
CIS	1756	CompTIA A+ Essentials	3
CIS	1757	CompTIA A+ Practical Applications	3
CIS	1758	Cyber Security Analyst, CYSA+	3
CIS	1767	IOS App Development 1	3
CIS	1768	IOS App Development 2	3
CIS	1858	Visual Basic Programming	3
CIS	1862	C++ Programming	3
CIS	1864	C# Programming	3
CIS	1865	ASP.NET Programming	3
CIS	1868	JAVA Programming	3
CIS	1872	PYTHON Programming	3
CIS	1876	C Programming	3
CIS	1881	Intro. To Computer Forensics	3
CIS	1882	3D Computer Animation/Programming	3
CIS	1883	2D Game Development	3
CIS	1885	3D Game Development	3
CIS	1894	Introduction to Digital Design	4
CIS	1895	Introduction to Oracle	3
CIS	1896	Oracle Database: PL/SQL Programming	3
CIS	1902	Introduction to SQL	3
CIS	1906	Principles of Information Assurance	3
CIS	1908	Introduction to Linux/Unix	3
CIS	1910	Azure Administrator	3
CIS	1911	Azure Development	3
CIS	1912	Azure Fundamentals	3
CIS	1913	Azure Security Technologies	3
CIS	1914	Certified Network Defender	3
CIS	1915	Introduction to Virtualization	3
CIS	1916	Introduction to Windows Server	3
CIS	1917	Network Defense Essentials	3
CIS	1918	Security, Compliance & Identity Fund.	3
CIS	1919	Windows Server Active Directory	3
CIS	1920	Windows Server Advanced Networking	3
CIS	1950	Ethical Hacking	3
CIS	1954	Robotics Programming	3
CIS	1955	CISCO CCNA Routing & Switching I	3
CIS	1956	CISCO CCNA Routing & Switching II	3
CIS	1958	Network +	3
CIS	1959	Security +	3

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COSMETOLOGY			
COS	5105	Cosmetology I	12
COS	5106	Cosmetology II	12
COS	5107	Cosmetology III	12
COS	5108	Cosmetology IV	12
CRIMINAL JUSTICE			
CRJ	5410	Special Operations in Criminal Justice	2
CRJ	5415	Criminal Investigation I	3
CRJ	5420	Criminal Investigation II	3
CRJ	5430	Criminal Procedures	3
CRJ	5432	Controlled Force	2
CRJ	5433	Controlled Force Level II	2
CRJ	5445	Law Enforcement Operations and Proc.	3
CRJ	5446	Criminal Justice Interview & Report	3
CRJ	5451	Agency Administration	3
CRJ	5460	Criminalistics I	3
CARPENTRY & CONSTRUCTION TRADES			
CST	3235	Introduction to Site Layout	3
CST	3236	Introduction to Construction Equipment	1
CST	3238	Principles of Concrete	3
CST	3239	Concrete Finishing	3
CST	3240	Principles of Masonry	3
CST	3241	Basic Carpentry and Construction	4
CST	3242	Roofing and Framing	3
CST	3243	Floors, Walls and Ceiling Framing	4
CST	3244	Windows, Doors and Stairs	3
CST	3245	Principles of Plumbing and HVAC	3
CST	3246	Principles of Electricity in Construction	3
CST	3247	Intro. to 3D Construction Principles	5
CST	3248	Plumbing Codes, Gas Piping & Sizing	4
CST	3249	Intro to Construction Codes	3
CST	3261	Introductory Craft Skills	3
CST	3262	Construction Basics	3
CST	3263	Concrete	5
CST	3265	Carpentry I	4
CST	3266	Carpentry II	6
CST	3267	Advanced Carpentry & Construction	6
CST	3275	Carpentry & Construction Skills App. I	3
CST	3276	Carpentry & Construction Skills App. II	3
CST	3281	Carpentry & Construction Internship I	3
CST	3282	Carpentry & Construction Internship II	3

EDUCATION			
EDU	6281	Children with Special Needs	3
EMERGENCY MEDICAL SERVICES & FIRE SCIENCE			
EMS	5600	Emergency Medical Responder	6
EMS	5601	EMT 1	6
EMS	5602	EMT 2	6
EMS	5605	Emergency Medical Technician	12
FIR	5500	Hazardous Materials for First Responders	3
FIR	5501	Firefighter I	4
FIR	5502	Firefighter II	3
FIR	5505	Firefighter Safety & Survival	3
INDUSTRIAL RELATED			
INR	3717	Print Reading	3
INR	3718	OSHA 10	1
INR	3725	Introductory Craft Skills (NCCER Core)	3
INR	3752	Career and Technical Internship II	1
INR	3760	Industrial Materials	3
ELECTROMECHANICAL TECHNICIAN (formerly Mechatronics/Manufacturing Technology)			
MEC	3400	Introduction to Maintenance	3
MEC	3480	Automation and Controls	3
MEC	3481	Electronics and Controls	3
MEC	3482	Motors and Electrical Controls	3
MEC	3483	Fluid Power	3
MEC	3484	Principles of Electricity	3
MEC	3485	Industrial Electronics	3
MEC	3487	Instrumentation & Control	3
MEC	3488	Manufacturing Processes & Systems	3
MEC	3489	Mechanical Systems	3
MEC	3490	Microprocessor Instrumentation	3
MEC	3491	Pneumatics	3
MEC	3492	Programmable Logic Controllers	3
MEC	3493	Quality Control & Cost Management	3
MEC	3494	Robotic Functions and Servicing	3
MILLING TECHNICIAN			
MLL	3590	Intro to Milling & Wheat	2
MLL	3591	Intro to Wheat Cleaning & Tempering	2
MLL	3592	Wheat Flour Milling I	3
MLL	3593	Wheat Flour Milling II	3
MLL	3594	Sanitation & Mill Process Control	2
MLL	3595	Quality Assessment & Flour Additives	2
MLL	3596	Flour Milling Internship	3
MLL	3600	Mechatronic Systems	3
MLL	3601	Electromechanical Technology	3

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MLL	3602	Industrial Electric Power	3
MLL	3603	Hydraulic and Pneumatic Power	3
MACHINE TOOL TECHNOLOGY			
MTT	3544	Computer Aided Manufacturing (CAM)	3
MTT	3547	Adv Computer Aided Manufacturing	3
MTT	3550	Advanced Mastercam Training	3
MTT	3551	Mastercam Toolpaths	3
MTT	3552	Solids	3
MTT	3553	3D Wireframe Drawing & Surfaces	3
MTT	3554	Surface Toolpaths	3
MTT	3555	Mastercam Lathe	3
MTT	3556	Multi-Axis Milling	3
MTT	3559	Mastercam Art Toolpath	3
MTT	3561	Machining I	3
MTT	3562	Machining II	3
MTT	3563	Benchwork	1
MTT	3564	Quality Control & Inspection	1
MTT	3565	Metallurgy	1
MTT	3566	Machining III	3
MTT	3567	Machining IV	3
MTT	3568	Machine Tool Processes	1
MTT	3570	CNC Machining	6
MTT	3571	CNC Operations	3
MTT	3572	CAD/CAM I	4
MTT	3573	CAD/CAM II	4
MTT	3574	CAD/CAM III	4
NONDESTRUCTIVE TESTING			
NDT	3451	Intro to Nondestructive Testing	3
NDT	3452	Visual Inspection	3
NDT	3453	Codes & Practices	3
NDT	3455	Magnetic Particle/Liquid Penetrant Testing	3
NDT	3456	Radiation Safety	3
NDT	3461	Ultrasonic Testing I	3
NDT	3462	Ultrasonic Testing II	3
NDT	3463	Ultrasonic Testing III	3
NDT	3464	Radiographic Testing I	3
NDT	3465	Radiographic Testing II	3
NDT	3466	Radiographic Testing III	3
NDT	3467	Eddy Current Testing I	3
NDT	3468	Eddy Current Testing II	3
NDT	3469	Adv Nondestructive Testing Methods	3
NDT	3471	Phased Array	3
PHYSICS			

PHS	4545	Introduction to Engineering	2
WELDING			
WEL	3613	SMAW (Shield Metal Arc Weld/Struct)	3
WEL	3615	Basic Welding Processes I	3
WEL	3620	Basic Welding Processes II	3
WEL	3622	GMAW (Gas Metal Arc Weld/Struct)	3
WEL	3623	GTAW (Gas Tungsten Arc Weld/Struct)	3
WEL	3632	Shielded Metal Arc Welding/Pipe	3
WEL	3633	Gas Metal Arc Welding/Pipe	3
WEL	3635	Basic Welding Processes III	3
WEL	3637	Welding Fabrication	3
WEL	3638	Welding Materials Inspection & Testing	3
WEL	3640	Basic Welding Processes IV	3
WEL	3642	Gas Tungsten Arc Welding	3
WEL	3644	Special Alloy Welding/Inspection	6
WEL	3645	Special Alloy Welding	3