Robertson County Offerings

CTE Ready Grad Matrix

CTE Programs of Study											
TCAT					**GHS**	**SHS**	**JBHS**	**ERHS**	**WHHS**	**IA**	**Notes / EPSO**
DE Welding (TCAT Springfield CTC)	TCAT Dual Enrollment Welding I C13H03	TCAT Dual Enrollment Welding II C13H18	TCAT Dual Enrollment Welding III C13H38	TCAT Dual Enrollment Welding IV C13H39	X	X	X				
DE HVAC (TCAT Springfield CTC)	TCAT Dual Enrollment HVAC Systems I C17H03	TCAT Dual Enrollment HVAC Systems II C17H30	TCAT Dual Enrollment HVAC Systems III C17H39	TCAT Dual Enrollment HVAC Systems IV C17H40	X	X	X	X	**X**		
DE Welding (Portland TCAT)	TCAT Dual Enrollment Welding I C13H03	TCAT Dual Enrollment Welding II C13H18	TCAT Dual Enrollment Welding III C13H38	TCAT Dual Enrollment Welding IV C13H39				X	**X**		7:30-9:30 a.m.
DE Machining (Portland TCAT)	TCAT Dual Enrollment Machining I C13H01	TCAT Dual Enrollment Machining II C13H20	TCAT Dual Enrollment Machining III C13H34	TCAT Dual Enrollment Machining IV C13H35				X	**X**		7:30-9:30 a.m.
DE Adv. Manufacturing (Portland TCAT)	TCAT Dual Enrollment Mechatronics I C13H04	TCAT Dual Enrollment Mechatronics II C13H21	TCAT Dual Enrollment Mechatronics III C13H36	TCAT Dual Enrollment Mechatronics IV C13H37				X	**X**		7:30-9:30 a.m.
DE Computer Information Systems (Portland TCAT)	TCAT Dual Enrollment Technology I C10H00	TCAT Dual Enrollment Technology II C21H12	TCAT Dual Enrollment Technology III C21H43	TCAT Dual Enrollment Technology IV C21H44				X	**X**		7:30-9:30 a.m.
DE Computer Information Systems (Springfield Dwntwn CAMPUS)	TCAT Dual Enrollment Technology I C10H00	TCAT Dual Enrollment Technology II C21H12	TCAT Dual Enrollment Technology III C21H43	TCAT Dual Enrollment Technology IV C21H44	X	X	X				1st and 2nd Block
DE Adv. Manufacturing (Springfield Dwntwn CAMPUS)	TCAT Dual Enrollment Mechatronics I C13H04	TCAT Dual Enrollment Mechatronics II C13H21	TCAT Dual Enrollment Mechatronics III C13H36	TCAT Dual Enrollment Mechatronics IV C13H37	X	X	X				1st and 2nd Block

Robertson County Offerings

Agriculture , Food and Natural Resources					IC	EPSO	EPSO	EPSO	EPSO
Veterinary and Animal Science	Agriscience[1] C18H19	Small Animal Science C18H20	Large Animal Science C18H27	Veterinary Science[1] C18H21 or WBL - Veterinary and Animal Science Career Practicum[6] C18H66	Elanco Fundamentals of Animal Science AND Elanco Vet Medical Applications	DE Survey of American History I G04H48 AND DE Ag. Business I [4&5] C18H03	DE Vet & Animal Science I C18H01 AND DE English Comp I G01H30	DE Probability & Stats G02H49 AND DE Ag. Business II C18H32	DE English Comp II G01H31 AND DE Horticulture Science C18H05

[1]Satisifies the third lab science credit required for graduation.

[2]Supplemental Work-Based Learning opportunity for AFNR career cluster students

[3]Satisifies the fourth math credit required for graduation.

[4]Satisfies 1/2 credit of Personal Finance required for graduation.

[5]Satisfies 1/2 of Economics credit required for graduation.

[6]May be taught for 1 or 2+ credits.

[7]Satisfies the one fine arts credit required for graduation.

Robertson County Offerings

Agriculture , Food and Natural Resources					IC	EPSO	EPSO	EPSO	EPSO
Agricultural Engineering, Industrial, and Mechanical Systems	Agriscience[1] C18H19	Principles of Agriculture Mechanics C18H12	Ag Power and Equipment C18H13	Ag Fabrication & Biosystems Engineering[3] C18H22 or WBL - Ag. Engineering, Industrial, and Mechanical Systems Career Practicum[6] C18H62	Briggs & Stratton Small Engine Tech AND OSHA 10	DE Survey of American History I G04H48 AND DE Ag. Business I [4&5] C18H03	DE Vet & Animal Science I C18H01 AND DE English Comp I G01H30	DE Probability & Stats G02H49 AND DE Ag. Business II C18H32	DE English Comp II G01H31 AND DE Horticulture Science C18H05

[1]Satisifies the third lab science credit required for graduation.

[2]Supplemental Work-Based Learning opportunity for AFNR career cluster students

[3]Satisifies the fourth math credit required for graduation.

[4]Satisfies 1/2 credit of Personal Finance required for graduation.

[5]Satisfies 1/2 of Economics credit required for graduation.

[6]May be taught for 1 or 2+ credits.

[7]Satisfies the one fine arts credit required for graduation.

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Agriculture , Food and Natural Resources					IC	EPSO	EPSO	EPSO	EPSO
Horticulture Science	Agriscience[1] C18H19	Principles of Plant Science and Hydroculture C18H30	Greenhouse Management C18H17	Landscape and Turf Science[7] C18H16 WBL - Horticulture Sciences Career Practicum[6] C18H65	BASF Plant Science	DE Survey of American History I G04H48 AND DE Ag. Business I [4&5] C18H03	DE Vet & Animal Science I C18H01 AND DE English Comp I G01H30	DE Probability & Stats G02H49 AND DE Ag. Business II C18H32	DE English Comp II G01H31 AND DE Horticulture Science C18H05

[1]Satisifies the third lab science credit required for graduation.

[2]Supplemental Work-Based Learning opportunity for AFNR career cluster students

[3]Satisifies the fourth math credit required for graduation.

[4]Satisfies 1/2 credit of Personal Finance required for graduation.

[5]Satisfies 1/2 of Economics credit required for graduation.

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Agriculture , Food and Natural Resources					IC	EPSO	EPSO	EPSO	EPSO
Food Science	Agriscience[1] C18H19 or Adv. Agriscience[1] C18H19A	Principals of Food Production C18H29	Food Science and Safety[1] C18H26	Advanced Food Science[1] C18H24 or WBL - Food Science Career Practicum[6] C18H64	ASMA Food Science and Safety	DE Survey of American History I G04H48 AND DE Ag. Business I [4&5] C18H03	DE Vet & Animal Science I C18H01 AND DE English Comp I G01H30	DE Probability & Stats G02H49 AND DE Ag. Business II C18H32	DE English Comp II G01H31 AND DE Horticulture Science C18H05

[1]Satisifies the third lab science credit required for graduation.
[2]Supplemental Work-Based Learning opportunity for AFNR career cluster students
[3]Satisifies the fourth math credit required for graduation.
[4]Satisfies 1/2 credit of Personal Finance required for graduation.
[5]Satisfies 1/2 of Economics credit required for graduation.
[6]May be taught for 1 or 2+ credits.
[7]Satisfies the one fine arts credit required for graduation.

Robertson County Offerings

Architecture & Construction					IC	EPSO	EPSO	EPSO	EPSO
Residential & Commercial Construction	Fundamentals of Construction C17H15	Residential & Commercial Construction I C17H24	Residential & Commercial Construction II C17H25	WBL - Residential & Commercial Construction Career Practicum[1]	OSHA 10: General Industry	DE Residential & Commercial Construction I C17H01	DE Residential & Commercial Construction II C17H31	DE Residential & Commercial Construction III C17H33	DE Residential & Commercial Construction IV C17H34
[1]May be taught for 1 or 2+ credits.									
Arts , Audio/Visual Technology, & Communication					IC	EPSO	EPSO	EPSO	EPSO
Digital Arts & Design	Digital Arts and Design I[2] C11H06	Digital Arts and Design II C11H05	Digital Arts and Design III C11H16	Applied Arts Practicum C11H07 or WBL - Digital Arts & Design Career Practicum[1] C11H26	Adobe Certified Associate - Photoshop or Illustrator	DE Digital Arts & Design I C11H08	DE Digital Arts & Design II C11H09	DE Digital Arts & Design III C11H20	DE English Comp I G01H30
Audio/Visual Production	A/V Production I C11H01	A/V Production II C11H02	A/V Production III C11H03	Applied Arts Practicum C11H07 or WBL - Audio/Visual Production Career Practicum[1] C11H25		DE A/V Production I C11H00	DE A/V Production II C11H15	DE A/V Production III C11H18	DE English Comp I G01H30
[1]May be taught for 1 or 2+ credits. [2]Satisifies the one fine arts credit required for graduation.									

Robertson County Offerings

Arts , Audio/Visual Technology, & Communication					IC	EPSO	EPSO	EPSO	EPSO
Fashion Design	Foundations of Fashion Design[2] C11H17	Fashion Design C11H10	Advanced Fashion Design C11H11	WBL - Fashion Design Career Practicum[1] C11H24		DE English Comp I G01H30	DE English Comp II G01H31	DE Psychology G04H44	DE Speech/ Fundamentals of Spoken Comm G01H88
[1]May be taught for 1 or 2+ credits. [2]Satisifies the one fine arts credit required for graduation.									
Business Management and Administration					IC	EPSO	EPSO	EPSO	EPSO
Business Management	Introduction to Business and Marketing C12H26	Business Communication C12H16 -or- Accounting I C29H00	Business Management[1] C12H17	WBL - Business Management Career Practicum[3] C12H27	Southwest Professional Communications	DE English Comp I G01H30	DE English Comp II G01H31	DE Speech/ Fundamentals of Spoken Comm G01H88	DE Business Management I C12H01 DE Business Management II C12H47
[1]Satisfies 1/2 credit of Personal Finance required for graduation. [2]Satisfies 1/2 credit of Economics required for graduation. [3]May be taught for 1 or 2+ credits. [4]Satisfies 1/2 credit of US Government required for graduation.									

Robertson County Offerings

Business Management and Administration					IC	EPSO	EPSO	EPSO	EPSO
Office Management	Principles of Office Applications C12H84	Business Communications C12H16	Business Management[1] C12H17	Advanced Office Applications C12H85 -or- WBL - Office Management Career Practicum[3]	MOS Word or MOS Excel	DE English Comp I G01H30	DE English Comp II G01H31	DE Speech/ Fundamentals of Spoken Comm G01H88	DE Business Management I C12H01 DE Business Management II C12H47
ELECTIVE COURSES	American Business Legal Systems[4] C12H20 and Business Economics[2] C12H21								
[1]Satisfies 1/2 credit of Personal Finance required for graduation. [2]Satisfies 1/2 credit of Economics required for graduation. [3]May be taught for 1 or 2+ credits. [4]Satisfies 1/2 credit of US Government required for graduation.									
Education and Training					IC	EPSO	EPSO	EPSO	EPSO
Teaching as a Profession (K-12)	Teaching as a Profession I C32H01	Teaching as a Profession II C32H02	Teaching as a Profession Practicum[2] C32H03	WBL - Teaching as A profession (K-12) Career Practicum[1] C32H36		DE English Comp I G01H30	DE English Comp II G01H31	DE Speech/ Fundamentals of Spoken Comm G01H88	DE Teaching as a Profession I C25H02
[1]May be taught for 1 or 2 credits. [2]A Student pursuing an Industry 4.0 Diploma distinction may substitute their 4th credit of math with this work-based learning course.									

Robertson County Offerings

Education and Training					IC	EPSO	EPSO	EPSO	EPSO
Early Childhood Education (Pre-K-4)	Early Childhood Education Careers I C32H06	Early Childhood Education Careers II C32H07	Early Childhood Education Careers III C32H08	WBL - Early Childhood Education Careers Career Practicum[1] C32H34	Adult, Infant, Child CPR AND TECTA Orientation Certificate	DE English Comp I G01H30	DE English Comp II G01H31	DE Speech/ Fundamentals of Spoken Comm G01H88	DE Psychology G04H44

[1]May be taught for 1 or 2 credits.

[2]A Student pursuing an Industry 4.0 Diploma distinction may substitute their 4th credit of math with this work-based learning course.

Finance					IC	EPSO	EPSO	EPSO	EPSO
Accounting	Introduction to Business and Marketing C12H26	Accounting I C29H00	Accounting II C29H01	WBL - Accounting Career Practicum[1] C29H16	MOS Excel	DE Introduction to Business G12H07	DE Accounting I C29H05	DE Accounting II C29H07	DE Pre-Calculus Algebra G02HA0
ELECTIVE COURSES	Personal Finance C12H24								

[1]May be taught for 1 or 2+ credits

Robertson County Offerings

Government & Public Administration					IC	EPSO	EPSO	EPSO	EPSO
Leadership in Government	JROTC I[1&2] G08H04	JROTC II[1&2] G08H05	JROTC III[4] G08H06 or U.S. Govt and Civics G04H12	JROTC IV G08H07 or WBL - Government Career Practicum[3] C15H29	ASVAB				

Health Science Education					IC	EPSO	EPSO	EPSO	EPSO
Diagnostic Services	Health Science Education C14H14	Anatomy and Physiology[1] C14H09 or G03H31	Diagnostic Medicine C14H12	Cardiovascular Services C14H18 or Clinical Internship[3] C14H11 Or WBL - Diagnostic Services Career Practicum[2] C14H19	EKG Technician	DE Nursing Services I G14H03	DE English Comp I G01H30	DE Probability & Stats G02H49	DE Psychology G04H44

Robertson County Offerings

Health Science Education					IC	EPSO	EPSO	EPSO	EPSO
Nursing Services	Health Science Education C14H14	Anatomy and Physiology[1] C14H09 G03H31	Medical Therapeutics C14H15	Nursing Education[3] C14H16 or Clinical Internship[3] C14H11 or WBL - Nursing Services Career Practicum[2] C14H46	Certified Patient Care Technician	DE Nursing Services I G14H03	DE English Comp I G01H30	DE Probability & Stats G02H49	DE Psychology G04H44
Therapeutic Services	Health Science Education C14H14	Anatomy and Physiology[1] C14H09 or G03H31	Nutrition Science and Diet Therapy[1] C19H16 or Medical Therapeutics C14H15	Clinical Internship[3] C14H11 and/or Medical Assisting C14H10 or WBL - Therapeutic Services Career Practicum[2] C14H48	Certified Clinical Medial Assistant (CCMA)	DE Nursing Services I G14H03	DE English Comp I G01H30	DE Probability & Stats G02H49	DE Psychology G04H44

[1]Satisfies the Third Lab Science credit required for Graduation.
[2]May be taught for 1 or 2+ credits.
[3]A student pursuing an Industry 4.0 Diploma Distinction may substitute their 4th credit of math with this work-based learning course.

Robertson County Offerings

Hospitality & Tourism					IC	EPSO	EPSO	EPSO	EPSO
Culinary Arts	Culinary Arts I C16H06	Culinary Arts II C16H07	Culinary Arts III C16H08	Culinary Arts IV C16H09 or WBL - Culinary Arts Career Practicum[1] C16H21	ServSafe Food Handler & ServSafe Manager				
[1]May be taught for 1 or 2 credits									
Human Services					IC	EPSO	EPSO	EPSO	EPSO
Human and Social Sciences	Introduction to Human Studies C19H19	Lifespan Development C19H17	Family Studies C19H18	WBL - Human and Social Sciences Career Practicum[2] C19H38		DE Psychology G04H44	DE English Comp I G01H30	DE English Comp II G01H31	DE Speech/ Fundamentals of Spoken Comm G01H88
[1]Satisfies the Third Lab Science credit required for Graduation [2]May be taught for 1 or 2 credits									

Robertson County Offerings

Human Services					IC	EPSO	EPSO	EPSO	EPSO
Dietetics and Nutrition	Introduction to Human Studies C19H19	Nutrition Across the Lifespan C19H15	Nutrition Science and Diet Therapy[1] C19H16	WBL - Dietetics and Nutrition Career Practicum[2] C19H37	ServSafe Food Handler	DE Speech/ Fundamentals of Spoken Comm G01H88	DE Psychology G04H44	DE English Comp I G01H30	DE English Comp II G01H31
Cosmetology	Cosmetology I C19H12	Cosmetology II C19H14	Cosmetology III C19H13	WBL - Cosmetology Career Practicum[2] C19H35		DE Cosmetology I C19H04	DE Cosmetology II C19H23	DE Cosmetology III C19H27	DE Cosmetology IV C19H28
[1]Satisfies the Third Lab Science credit required for Graduation [2]May be taught for 1 or 2+ credits									
Information Technology					IC	EPSO	EPSO	EPSO	EPSO
Coding	Computer Science Foundations[1] C10H11	Coding I[1] C10H14	Coding II[1] C10H15	WBL Coding Career Practicum[2] C10H40		DE Coding I C10H01	DE Coding II C10H28	DE English Comp I G01H30	DE English Comp II G01H31
[1]May count for Computer Science graduation requirement. [2]May be taught for 1 or 2+ credits									

Robertson County Offerings

Law, Public Safety, Corrections, & Security					IC	EPSO	EPSO	EPSO	EPSO
Criminal Justice and Correction Services	Criminal Justice I C30H00	Criminal Justice II C30H01	Criminal Justice III Investigation C30H02	WBL - Criminal Justice and Correction Services Career Practicum[2] C30H27		DE Criminal Justice & Corrections I C30H12	DE Criminal Justice & Corrections II C30H13	DE Criminal Justice & Corrections III C30H20	DE Psychology G04H44
ELECTIVES	American Business Legal Systems[1] C12H20								

[1]Satisfies 1/2 credit of US Government required for graduation.
[2]May be taught for 1 or 2+ credits.

Marketing					IC	EPSO	EPSO	EPSO	EPSO
Marketing Management	Introduction to Business and Marketing C12H26	Marketing and Management I Principles[1] C31H00	Marketing Management II Advanced Strategies C31H01	Event Planning and Management C16H12 or WBL - Marketing Management Career Practicum[2] C31H28		DE Marketing Management I[4] C31H10	DE Marketing Management II[5] C31H11	DE Business Management I C12H01	DE Speech/ Fundamentals of Spoken Comm G01H88

[1]Satisfies 1/2 credit of Economics required for graduation.

[2]May be taught for 1 or 2+ credits.

[3]Satisfies 1/2 credit of Personal Finance required for Graduation.

[4]Class only for Associates Degree Program, may not transfer as a Business or Marketing class toward a 4-year Degree.

[5]Class only for Technical or Associates Degree program, may not transfer as a Business or Marketing class toward a 4-year Degree.

Robertson County Offerings

Science, Technology, Engineering, and Mathematics					IC	EPSO	EPSO	EPSO	EPSO
Engineering	Principles of Engineering and Technology C21H04	Engineering Design I[1] C21H05	Engineering Design II[1] C21H06	WBL - Engineering Career Practicum C21H47	OSHA 10 & Autodesk Inventor Certified	DE English Comp I G01H30	DE English Comp II G01H31	DE Pre-Calculus Algebra I G02HA0	DE Speech/ Fundamentals of Spoken Comm G01H88
BioSTEM	BioSTEM I[1] C21H07	BioSTEM II[1] C21H08	BioSTEM III[1] C21H09 IC: BACE Certification	WBL - BioSTEM Career Practicum[2] C21H46	BACE-Biotechnician Credentialing Exam	DE English Comp I G01H30	DE English Comp II G01H31	DE Pre-Calculus I G02H90	DE Speech/ Fundamentals of Spoken Comm G01H88

[1]Satisfies the Third Lab Science credit required for Graduation
[2]May be taught for 1 or 2 credits

Transportation, Distribution, and Logistics					IC	EPSO	EPSO	EPSO	EPSO
Automotive Maintenance and Light Repair	Maintenance and Light Repair I C20H09	Maintenance and Light Repair II C20H10	Maintenance and Light Repair III C20H11	Maintenance and Light Repair IV C20H12 or WBL - Automotive Maintenance and Light Repair Career Practicum[1] C20H34	NC3 Snap-On Precision Measurement Instruments Certification	DE Automotive Maintenance & Light Repair I C20H01	DE Automotive Maintenance & Light Repair II C20H21	DE Automotive Maintenance & Light Repair III C20H22	DE Automotive Maintenance & Light Repair IV C20H30

[1] May be taught for 1 or 2 credits

Robertson County Offerings

Blue Text = Volunteer State
Gold Text = TCAT
Orange Text = UTM
Red Text = APSU
Green Text = New Class or Code

Cross-Cutting Notes

Recommended Cross-Cutting Courses for all POS - Business Management C12H17, Accounting I C29H00, Business Communications C12H16, Advanced Office Appications C12H85

Courses allowed by state for Cross-Cutting but not preferred include, Computer Science Foundations C10H11, Coding 1 C10H14, Introduction to Business and Marketing C12H26, Marketing I C31H00, Principals of Office Applications C12H84