



2024-25 CTE Programs of Study

Tennessee's career and technical education (CTE) programs of study are meant to provide a relevant framework of industry-aligned, rigorous courses that progress a student in knowledge and skills year after year. They provide invaluable opportunities for students to experience a subject that they are passionate about and explore interests that lead to postsecondary learning and future career paths. These sequenced courses also reflect and support the three-credit elective focus requirement for graduation. Level 1 courses are encouraged to be taken by students in ninth grade; however, districts may make scheduling decisions that work best for their communities and students.

THIS PROGRAM STUDY GUIDE GOES INTO EFFECT FOR THE 2024-25 SCHOOL YEAR.

SBE approved course codes for new courses for 2024-25 will not be released until January.

- JAGTN I, II, III, and IV
- Meat Science I, II and III
- Behavioral Health
- Behavioral Health Practicum
- Foundational Supervised Agricultural Experience II
- Exploring Business & Marketing
- Keyboarding Fundamentals
- Principles of Office Applications
- Advanced Office Applications
- Exploring Agricultural Education
- Introduction to Agricultural Education

Additional dual enrollment courses (V-X) have been added for each program of study. The following two programs of study (are new for 2024-25) also have all DE courses included, but these will not be available until the 2024-25 school year.

- Meat Science
- Behavioral Health

Advanced Manufacturing

Program of Study	Level 1	Level 2	Level 3	Level 4
Industrial Maintenance Technology	Principles of Manufacturing (C13H05)	Introduction to Industrial Maintenance (C13H28)	Advanced Industrial Maintenance (C13H29) -or- Dual Enrollment Industrial Maintenance Technology I (C13H30) -or- Dual Enrollment Industrial Maintenance Technology II (C13H31)	Manufacturing Practicum ² (C13H08) -or- Dual Enrollment Industrial Maintenance Technology III (C13H32) -or- Dual Enrollment Industrial Maintenance Technology IV (C13H33) -or- Dual Enrollment Industrial Maintenance Technology V (C13H50) -or- Dual Enrollment Industrial Maintenance Technology VI (C13H51) -or- Dual Enrollment Industrial Maintenance Technology VII (C13H52) -or- Dual Enrollment Industrial Maintenance Technology VIII (C13H53) -or- Dual Enrollment Industrial Maintenance Technology IX (C13H54) -or- Dual Enrollment Industrial Maintenance Technology X (C13H55) -or- WBL Industrial Maintenance Technology Career Practicum ¹ (C13H40)
Machining Technology	Principles of Manufacturing (C13H05)	Principles of Machining I (C13H09)	Principles of Machining II (C13H06) -or- Dual Enrollment Machining Technology I (C13H01) -or- Dual Enrollment Machining Technology II (C13H20)	Manufacturing Practicum ² (C13H08) -or- Dual Enrollment Machining Technology III (C13H34) -or- Dual Enrollment Machining Technology IV (C13H35) -or-

Program of Study	Level 1	Level 2	Level 3	Level 4
				Dual Enrollment Machining Technology V (C13H56) -or- Dual Enrollment Machining Technology VI (C13H57) -or- Dual Enrollment Machining Technology VII (C13H58) -or- Dual Enrollment Machining Technology VIII (C13H59) -or- Dual Enrollment Machining Technology IX (C13H60) -or- Dual Enrollment Machining Technology X (C13H61) -or- WBL Machining Technology Career Practicum ¹ (C13H41)
Mechatronics	Principles of Manufacturing (C13H05)	Digital Electronics (C13H07)	Mechatronics I (C13H16) -or- Robotics & Automated Systems (C13H15) -or- Dual Enrollment Mechatronics I (C13H04) -or- Dual Enrollment Mechatronics II (C13H21)	Mechatronics II (C13H17) -or- Manufacturing Practicum ² (C13H08) -or- Dual Enrollment Mechatronics III (C13H36) -or- Dual Enrollment Mechatronics IV (C13H37) -or- Dual Enrollment Mechatronics V (C13H62) -or- Dual Enrollment Mechatronics VI (C13H63) -or- Dual Enrollment Mechatronics VII (C13H64) -or- Dual Enrollment Mechatronics VIII (C13H65) -or- Dual Enrollment Mechatronics IX (C13H66) -or-

Program of Study	Level 1	Level 2	Level 3	Level 4
				Dual Enrollment Mechatronics X (C13H67) -or- WBL Mechatronics Career Practicum ¹ (C13H42)
Welding	Principles of Manufacturing (C13H05)	Welding I (C13H12)	Welding II (C13H10) -or- Dual Enrollment Welding I (C13H03) -or- Dual Enrollment Welding II (C13H18)	Manufacturing Practicum ² (C13H08) -or- Dual Enrollment Welding III (C13H38) -or- Dual Enrollment Welding IV (C13H39) -or- Dual Enrollment Welding V (C13H44) -or- Dual Enrollment Welding VI (C13H45) -or- Dual Enrollment Welding VII (C13H46) -or- Dual Enrollment Welding VIII (C13H47) -or- Dual Enrollment Welding IX (C13H48) -or- Dual Enrollment Welding X (C13H49) -or- WBL Welding Career Practicum ¹ (C13H43)

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.

Available courses for elective credit in this cluster:

- **JAG TN I (), JAG TN II (), JAG TN III (), and JAG TN IV** (C25H09) is a supplemental course that can be offered in addition to courses within the programs of study but does not count toward concentrator status.
- **Preparing for the ACT, Postsecondary, and Career** (C25H19) is a supplemental course that can be offered in addition to courses within the programs of study but does not count toward concentrator status.

Agriculture, Food, & Natural Resources

Program of Study	Level 1	Level 2	Level 3	Level 4
Agribusiness	Agriscience ¹ (C18H19) -or- Foundational Supervised Agricultural Experience I ² (C18H58)	Principles of Farm and Agribusiness Management ³ (C18H41) -or- Foundational Supervised Agricultural Experience II ² ()	Organizational Leadership & Communications (C18H18) -or- Capstone Supervised Agricultural Experience (C18H57) -or- Dual Enrollment Agribusiness I (C18H03) -or- Dual Enrollment Agribusiness II (C18H32)	Agricultural Business & Finance ^{4 & 5} (C18H11) -or- Dual Enrollment Agribusiness III (C18H43) -or- Dual Enrollment Agribusiness IV (C18H44) -or- Dual Enrollment Agribusiness V (C18H67) -or- Dual Enrollment Agribusiness VI (C18H68) -or- Dual Enrollment Agribusiness VII (C18H69) -or- Dual Enrollment Agribusiness VIII (C18H70) -or- Dual Enrollment Agribusiness IX (C18H71) -or- Dual Enrollment Agribusiness X (C18H72) -or- SDC Introduction to Agriculture Business ⁵ (C18H10) -or- WBL Agribusiness Career Practicum ⁶ (C18H61)
Agricultural Engineering, Industrial, and Mechanical Systems	Agriscience ¹ (C18H19) -or- Foundational Supervised Agricultural Experience I ² (C18H58)	Principles of Agricultural Mechanics (C18H12) -or- Foundational Supervised Agricultural Experience II ² ()	Agricultural Power & Equipment (C18H13) -or- Capstone Supervised Agricultural Experience (C18H57) -or- Dual Enrollment Agricultural Engineering, Industrial, and Mechanical Systems I (C18H45) -or- Dual Enrollment	Agricultural Fabrication and Biosystems Engineering ³ (C18H42) -or- Unmanned Aircraft Systems in Agriculture (C18H40) -or- Dual Enrollment Agricultural Engineering, Industrial, and Mechanical Systems III (C18H47) -or- Dual Enrollment

Program of Study	Level 1	Level 2	Level 3	Level 4
			Agricultural Engineering, Industrial, and Mechanical Systems II (C18H46)	Agricultural Engineering, Industrial, and Mechanical Systems IV (C18H48) -or- Dual Enrollment Agricultural Engineering, Industrial, and Mechanical Systems V (C18H73) -or- Dual Enrollment Agricultural Engineering, Industrial, and Mechanical Systems VI (C18H74) -or- Dual Enrollment Agricultural Engineering, Industrial, and Mechanical Systems VII (C18H75) -or- Dual Enrollment Agricultural Engineering, Industrial, and Mechanical Systems VIII (C18H76) -or- Dual Enrollment Agricultural Engineering, Industrial, and Mechanical Systems IX (C18H77) -or- Dual Enrollment Agricultural Engineering, Industrial, and Mechanical Systems X (C18H78) -or- WBL Agricultural Engineering, Industrial, and Mechanical Systems Career Practicum ⁶ (C18H62)
Environmental and Natural Resource Management	Agriscience ¹ (C18H19) -or- Foundational Supervised Agricultural Experience I ² (C18H58)	Applied Environmental Science ¹ (C18H25) -or- IGCSE Environmental Management (C18H07) -or- Foundational Supervised Agricultural Experience II ² ()	Plant & Soil Science ¹ (C18H15) -or- Capstone Supervised Agricultural Experience (C18H57) -or- Dual Enrollment Environmental & Natural Resources Management I (C18H06) -or- Dual Enrollment	Natural Resources Management ¹ (C18H28) -or- Unmanned Aircraft Systems in Agriculture (C18H40) -or- AP Environmental Science (G03H25) -or- Dual Enrollment

Program of Study	Level 1	Level 2	Level 3	Level 4
			Environmental & Natural Resources Management II (C18H36) -or- IB Environmental Systems & Societies I SL (G03H36)	Environmental & Natural Resources Management III (C18H49) -or- Dual Enrollment Environmental & Natural Resources Management IV (C18H50) -or- Dual Enrollment Environmental & Natural Resources Management V (C18H79) -or- Dual Enrollment Environmental & Natural Resources Management VI (C18H80) -or- Dual Enrollment Environmental & Natural Resources Management VII (C18H81) -or- Dual Enrollment Environmental & Natural Resources Management VIII (C18H82) -or- Dual Enrollment Environmental & Natural Resources Management IX (C18H83) -or- Dual Enrollment Environmental & Natural Resources Management X (C18H84) -or- IB Environmental Systems & Societies II SL (G03H34) -or- WBL Environmental and Natural Resource Management Career Practicum ⁶ (C18H63)
Food Science	Agriscience ¹ (C18H19) -or- Foundational Supervised Agricultural Experience I ² (C18H58)	Principles of Food Production (C18H29) -or- Foundational Supervised Agricultural Experience II ² ()	Food Science & Safety ¹ (C18H26) -or- Capstone Supervised Agricultural Experience (C18H57) -or- Dual Enrollment Food Science I (C18H04) -or- Dual Enrollment	Advanced Food Science ¹ (C18H24) -or- Dual Enrollment Food Science III (C18H51) -or- Dual Enrollment Food Science IV (C18H52) -or- Dual Enrollment

Program of Study	Level 1	Level 2	Level 3	Level 4
			Food Science II (C18H37)	Food Science V (C18H85) -or- Dual Enrollment Food Science VI (C18H86) -or- Dual Enrollment Food Science VII (C18H87) -or- Dual Enrollment Food Science VIII (C18H88) -or- Dual Enrollment Food Science IX (C18H89) -or- Dual Enrollment Food Science X (C18H90) -or- WBL Food Science Career Practicum ⁶ (C18H64)
Horticulture Science	Agriscience ¹ (C18H19) -or- Foundational Supervised Agricultural Experience I ² (C18H58)	Principles of Plant Science & Hydroculture (C18H30) -or- Foundational Supervised Agricultural Experience II ² ()	Greenhouse Management (C18H17) -or- Capstone Supervised Agricultural Experience (C18H57) -or- SDC Introduction to Plant Science ¹ (C18H09) -or- Dual Enrollment Horticulture Science I (C18H05) -or- Dual Enrollment Horticulture Science II (C18H33)	Landscaping & Turf Science ⁷ (C18H16) -or- Unmanned Aircraft Systems in Agriculture (C18H40) -or- Dual Enrollment Horticulture Science III (C18H53) -or- Dual Enrollment Horticulture Science IV (C18H54) -or- Dual Enrollment Horticulture Science V (C18H91) -or- Dual Enrollment Horticulture Science VI (C18H92) -or- Dual Enrollment Horticulture Science VII (C18H93) -or- Dual Enrollment Horticulture Science VIII (C18H94) -or- Dual Enrollment Horticulture Science IX (C18H95)

Program of Study	Level 1	Level 2	Level 3	Level 4
				-or- Dual Enrollment Horticulture Science X (C18H96) -or- WBL Horticulture Science Career Practicum ⁶ (C18H65)
Meat Science (THIS POS AND ALL OF ITS COURSES GO INTO EFFECT FOR THE 2024-25 SCHOOL YEAR.	Agriscience ¹ (C18H19) -or- Foundational Supervised Agricultural Experience I ² (C18H58)	Meat Science I () -or- Foundational Supervised Agricultural Experience II ² ()	Meat Science II () -or- Dual Enrollment Meat Science I (C18H97) -or- Dual Enrollment Meat Science II (C18H98)	Meat Science III () -or- Dual Enrollment Meat Science III (C18H99) -or- Dual Enrollment Meat Science IV (C18HA0) -or- Dual Enrollment Meat Science V (C18HA1) -or- Dual Enrollment Meat Science VI (C18HA2) -or- Dual Enrollment Meat Science VII (C18HA3) -or- Dual Enrollment Meat Science VIII (C18HA4) -or- Dual Enrollment Meat Science IX (C18HA5) -or- Dual Enrollment Meat Science X (C18HA6) -or- WBL Meat Science Career Practicum ()
Veterinary and Animal Science	Agriscience ¹ (C18H19) -or- Foundational Supervised Agricultural Experience I ² (C18H58)	Small Animal Science Technologies (C18H20) -or- Foundational Supervised Agricultural Experience II ² ()	Large Animal Science Technologies (C18H27) -or- Capstone Supervised Agricultural Experience (C18H57) -or- Dual Enrollment Veterinary & Animal Science I (C18H01)	Veterinary Science Technologies ¹ (C18H21) -or- Unmanned Aircraft Systems in Agriculture (C18H40) -or- Dual Enrollment Veterinary & Animal Science III (C18H55)

Program of Study	Level 1	Level 2	Level 3	Level 4
			-or- Dual Enrollment Veterinary & Animal Science II (C18H34)	-or- Dual Enrollment Veterinary & Animal Science IV (C18H56) -or- Dual Enrollment Veterinary & Animal Science V (C18HA7) -or- Dual Enrollment Veterinary & Animal Science VI (C18HA8) -or- Dual Enrollment Veterinary & Animal Science VII (C18HA9) -or- Dual Enrollment Veterinary & Animal Science VIII (C18HB0) -or- Dual Enrollment Veterinary & Animal Science IX (C18HB1) -or- Dual Enrollment Veterinary & Animal Science X (C18HB2) -or- WBL Veterinary and Animal Science Career Practicum ⁶ (C18H66)

¹ Satisfies the third lab science credit required for graduation.

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

³ Satisfies the fourth math credit required for graduation.

⁴ Satisfies ½ credit of Personal Finance required for graduation.

⁵ Satisfies the one economics credit required for graduation.

⁶ May be taught for 1 or 2 credits.

⁷ Satisfies the one fine arts credit required for graduation.

Available courses for elective credit in this cluster:

- **Floral Design and Operations** ⁷ (C18H59) is a supplemental course that can be offered in addition to courses within the Horticulture Science program of study but does not count toward concentrator status.
- **Equine Science** (C18H60) is a supplemental course that can be offered in addition to courses within the Veterinary and Animal Science program of study but does not count toward concentrator status.
- **Introduction to Geographical Information Systems (GIS)** (C18H39) is a supplemental course that can be offered in addition to courses within the programs of study but does not count toward concentrator status.
- **JAG TN I (), JAG TN II (), JAG TN III (), and JAG TN IV** (C25H09) is a supplemental course that can be offered in addition to courses within the programs of study but does not count toward concentrator status.
- **Preparing for the ACT, Postsecondary, and Career** (C25H19) is a supplemental course that can be offered in addition to courses within the programs of study but does not count toward concentrator status.

Architecture & Construction

Program of Study	Level 1	Level 2	Level 3	Level 4
Architectural & Engineering Design	Architectural & Engineering Design I (C17H13)	Architectural & Engineering Design II (C17H14)	Architectural & Engineering Design III (C17H10) -or- Dual Enrollment Architectural & Engineering Design I (C17H04) -or- Dual Enrollment Architectural & Engineering Design II (C17H28)	Engineering Practicum (C21H14) -or- AP Calculus AB ³ (G02H24) -or- AP Calculus BC ³ (G02H25) -or- AP Physics I: Algebra-Based ³ (G03H27) -or- AP Physics II: Algebra-Based ³ (G03H28) -or- AP Physics C: Electricity & Magnetism ³ (G03H24) -or- AP Physics C: Mechanics ³ (G03H29) -or- IB Physics II SL (G03H82) -or- Dual Enrollment Architectural & Engineering Design III (C17H35) -or- Dual Enrollment Architectural & Engineering Design IV (C17H36) -or- Dual Enrollment Architectural & Engineering Design V (C17H50) -or- Dual Enrollment Architectural & Engineering Design VI (C17H51) -or- Dual Enrollment Architectural & Engineering Design VII (C17H52) -or- Dual Enrollment Architectural & Engineering Design VIII (C17H53)

Program of Study	Level 1	Level 2	Level 3	Level 4
				-or- Dual Enrollment Architectural & Engineering Design IX (C17H54) -or- Dual Enrollment Architectural & Engineering Design X (C17H55) -or- WBL Architectural & Engineering Design Career Practicum ¹ (C17H45)
Interior Design	Foundations of Interior Design ² (C17H12)	Residential Interior Design (C17H11)	Commercial Interior Design (C17H20) -or- Dual Enrollment Interior Design I (C17H05) -or- Dual Enrollment Interior Design II (C17H29)	Advanced Interior Design (C17H19) -or- Dual Enrollment Interior Design III (C17H37) -or- Dual Enrollment Interior Design IV (C17H38) -or- Dual Enrollment Interior Design V (C17H56) -or- Dual Enrollment Interior Design VI (C17H57) -or- Dual Enrollment Interior Design VII (C17H58) -or- Dual Enrollment Interior Design VIII (C17H59) -or- Dual Enrollment Interior Design IX (C17H60) -or- Dual Enrollment Interior Design X (C17H61) -or- WBL Interior Design Career Practicum ¹ (C17H49)
Mechanical, Electrical, & Plumbing (MEP) Systems	Fundamentals of Construction (C17H15)	Mechanical, Electrical, & Plumbing Systems (C17H23)	HVAC (C17H17) -or- Electrical Systems (C17H16) -or- Plumbing Systems (C17H18)	Construction Practicum (C17H22) -or- Dual Enrollment Mechanical, Electrical, & Plumbing Systems III (C17H39) -or-

Program of Study	Level 1	Level 2	Level 3	Level 4
			-or- Dual Enrollment Mechanical, Electrical, & Plumbing Systems I (C17H03) -or- Dual Enrollment Mechanical, Electrical, & Plumbing Systems II (C17H30)	Dual Enrollment Mechanical, Electrical, & Plumbing Systems IV (C17H40) -or- Dual Enrollment Mechanical, Electrical, & Plumbing Systems V (C17H62) -or- Dual Enrollment Mechanical, Electrical, & Plumbing Systems VI (C17H63) -or- Dual Enrollment Mechanical, Electrical, & Plumbing Systems VII (C17H64) -or- Dual Enrollment Mechanical, Electrical, & Plumbing Systems VIII (C17H65) -or- Dual Enrollment Mechanical, Electrical, & Plumbing Systems IX (C17H66) -or- Dual Enrollment Mechanical, Electrical, & Plumbing Systems X (C17H67) -or- WBL Mechanical, Electrical, & Plumbing (MEP) Systems Career Practicum ¹ (C17H46)
Residential & Commercial Construction	Fundamentals of Construction (C17H15)	Residential & Commercial Construction I (C17H24)	Residential & Commercial Construction II (C17H25) -or- Dual Enrollment Residential & Commercial Construction I (C17H01) -or- Dual Enrollment Residential & Commercial Construction II (C17H31)	Construction Practicum (C17H22) -or- Dual Enrollment Residential & Commercial Construction III (C17H33) -or- Dual Enrollment Residential & Commercial Construction IV (C17H34) -or- Dual Enrollment Residential & Commercial Construction V (C17H68) -or- Dual Enrollment Residential & Commercial Construction VI

Program of Study	Level 1	Level 2	Level 3	Level 4
				(C17H69) -or- Dual Enrollment Residential & Commercial Construction VII (C17H70) -or- Dual Enrollment Residential & Commercial Construction VIII (C17H71) -or- Dual Enrollment Residential & Commercial Construction IX (C17H72) -or- Dual Enrollment Residential & Commercial Construction X (C17H73) -or- WBL Residential & Commercial Construction Career Practicum ¹ (C17H47)
Structural Systems	Fundamentals of Construction (C17H15)	Structural Systems I (C17H26)	Structural Systems II (C17H27) -or- Dual Enrollment Structural Systems I (C17H02) -or- Dual Enrollment Structural Systems II (C17H32)	Construction Practicum (C17H22) -or- Dual Enrollment Structural Systems III (C17H43) -or- Dual Enrollment Structural Systems IV (C17H44) -or- Dual Enrollment Structural Systems V (C17H74) -or- Dual Enrollment Structural Systems VI (C17H75) -or- Dual Enrollment Structural Systems VII (C17H76) -or- Dual Enrollment Structural Systems VIII (C17H77) -or- Dual Enrollment Structural Systems IX (C17H78) -or- Dual Enrollment Structural Systems X (C17H79) -or- WBL

Program of Study	Level 1	Level 2	Level 3	Level 4
				Structural Systems Career Practicum ¹ (C17H48)

¹ May be taught for 1 or 2 credits.

² Satisfies the one fine arts credit required for graduation.

³ Satisfies the fourth math credit required for graduation.

Available courses for elective credit in this cluster:

- **Introduction to Geographical Information Systems (GIS)** (C18H39) is a supplemental course that can be offered in addition to courses within the Architectural and Engineering Design program of study but does not count toward concentrator status.
- **JAG TN I (), JAG TN II (), JAG TN III (), and JAG TN IV** (C25H09) is a supplemental course that can be offered in addition to courses within the programs of study but does not count toward concentrator status.
- **Preparing for the ACT, Postsecondary, and Career** (C25H19) is a supplemental course that can be offered in addition to courses within the programs of study but does not count toward concentrator status.

Arts, Audio/Visual Technology, & Communications

Program of Study	Level 1	Level 2	Level 3	Level 4
Audio/Visual Production	A/V Production I (C11H01)	A/V Production II (C11H02)	A/V Production III (C11H03) -or- Dual Enrollment Audio/Visual Production I (C11H00) -or- Dual Enrollment Audio/Visual Production II (C11H15)	Applied Arts Practicum (C11H07) -or- AP English Language & Composition (G01H17) -or- Dual Enrollment Audio/Visual Production III (C11H18) -or- Dual Enrollment Audio/Visual Production IV (C11H19) -or- Dual Enrollment Audio/Visual Production V (C11H27) -or- Dual Enrollment Audio/Visual Production VI (C11H28) -or- Dual Enrollment Audio/Visual Production VII (C11H29) -or- Dual Enrollment Audio/Visual Production VIII (C11H30) -or- Dual Enrollment Audio/Visual Production IX (C11H31) -or- Dual Enrollment Audio/Visual Production X (C11H32) -or- WBL Audio/Visual Production Career Practicum ¹ (C11H25)
Digital Arts & Design	Digital Arts & Design I ² (C11H06)	Digital Arts & Design II (C11H05)	Digital Arts & Design III (C11H16) -or- Dual Enrollment Digital Arts & Design I (C11H08) -or- Dual Enrollment Digital Arts & Design II (C11H09)	Applied Arts Practicum (C11H07) -or- AP 2-D Art and Design ² (G05H30) -or- AP 3-D Art and Design ² (G05H29) -or- Dual Enrollment Digital Arts & Design III (C11H20) -or- Dual Enrollment Digital Arts & Design IV

Program of Study	Level 1	Level 2	Level 3	Level 4
				(C11H21) -or- Dual Enrollment Digital Arts & Design V (C11H33) -or- Dual Enrollment Digital Arts & Design VI (C11H34) -or- Dual Enrollment Digital Arts & Design VII (C11H35) -or- Dual Enrollment Digital Arts & Design VIII (C11H36) -or- Dual Enrollment Digital Arts & Design IX (C11H37) -or- Dual Enrollment Digital Arts & Design X (C11H38) -or- WBL Digital Arts & Design Career Practicum ¹ (C11H26)
Fashion Design	Visual Arts: Comprehensive I (G05H08)	Foundations of Fashion Design ² (C11H17)	Fashion Design (C11H10) -or- Dual Enrollment Fashion Design I (C11H13) -or- Dual Enrollment Fashion Design II (C11H14) -or- CIE Art & Design: Fashion & Design AS Level (C11H12)	Advanced Fashion Design (C11H11) -or- Dual Enrollment Fashion Design III (C11H22) -or- Dual Enrollment Fashion Design IV (C11H23) -or- Dual Enrollment Fashion Design V (C11H39) -or- Dual Enrollment Fashion Design VI (C11H40) -or- Dual Enrollment Fashion Design VII (C11H41) -or- Dual Enrollment Fashion Design VIII (C11H42) -or- Dual Enrollment Fashion Design IX (C11H43) -or- Dual Enrollment

Program of Study	Level 1	Level 2	Level 3	Level 4
				Fashion Design X (C11H44) -or- WBL Fashion Design Career Practicum ¹ (C11H24)

¹ May be taught for 1 or 2 credits.

² Satisfies the one fine arts credit required for graduation.

Available courses for elective credit in this cluster:

- **Journalism I** (G01H15) is a supplemental course that can be offered in addition to courses within the Audio/Visual Production program of study but does not count toward concentrator status.
- **JAG TN I (), JAG TN II (), JAG TN III (), and JAG TN IV** (C25H09) is a supplemental course that can be offered in addition to courses within the programs of study but does not count toward concentrator status.
- **Preparing for the ACT, Postsecondary, and Career** (C25H19) is a supplemental course that can be offered in addition to courses within the programs of study but does not count toward concentrator status.

Business Management & Administration

Program of Study	Level 1	Level 2	Level 3	Level 4
Business Management	Introduction to Business & Marketing (C12H26)	Business Communications (C12H16) -or- Accounting I (C29H00) -or- IGCSE Accounting (C29H08)	Business Management ¹ (C12H17) -or- SDC Introduction to Business ^{1&2} (C12H44) -or- Dual Enrollment Business Management I ² (C12H01) -or- Dual Enrollment Business Management II ² (C12H47) -or- CIE Business Studies 1 AS Level (C12H14)	Business & Entrepreneurship Practicum (C12H35) -or- retired Dual Enrollment Business Management III ² (C12H59) -or- Dual Enrollment Business Management IV ² (C12H52) -or- Dual Enrollment Business Management V ² (C12H66) -or- Dual Enrollment Business Management VI ² (C12H67) -or- Dual Enrollment Business Management VII ² (C12H68) -or- Dual Enrollment Business Management VIII ² (C12H69) -or- Dual Enrollment Business Management IX ² (C12H70) -or- Dual Enrollment Business Management X ² (C12H71) -or- WBL Business Management Career Practicum ³ (C12H61)
Health Services Administration	Introduction to Business & Marketing (C12H26) -or- Health Science Education (C14H14)	Health Information Technology (C12H34)	Business Management ¹ (C12H17) -or- SDC Introduction to Business ^{1&2} (C12H44) -or- Dual Enrollment Health Services Administration I (C12H03) -or- Dual Enrollment Health Services Administration II (C12H49) -or- CIE Business Studies 1 AS Level (C12H14)	Health Services Administration Practicum (C12H38) -or- Dual Enrollment Health Services Administration III (C12H53) -or- Dual Enrollment Health Services Administration IV (C12H54) -or- Dual Enrollment Health Services Administration V (C12H72) -or- Dual Enrollment

Program of Study	Level 1	Level 2	Level 3	Level 4
				Health Services Administration VI (C12H73) -or- Dual Enrollment Health Services Administration VII (C12H74) -or- Dual Enrollment Health Services Administration VIII (C12H75) -or- Dual Enrollment Health Services Administration IX (C12H76) -or- Dual Enrollment Health Services Administration X (C12H77) -or- WBL Health Services Administration Career Practicum ³ (C12H62)
RETIRED				
Office Management	Introduction to Business & Marketing (C12H26) -or- Principles of Office Applications ()	Business Communications (C12H16)	Business Management (C12H17) ¹ -or- SDC Introduction to Business ^{1 & 2} (C12H44) -or- Dual Enrollment Office Management I (C12H02) -or- Dual Enrollment Office Management II (C12H48) -or- CIE Business Studies 1 AS Level (C12H14)	Advanced Office Applications () -or- Dual Enrollment Office Management III (C12H57) -or- Dual Enrollment Office Management IV (C12H58) -or- Dual Enrollment Office Management V (C12H78) -or- Dual Enrollment Office Management VI (C12H79) -or- Dual Enrollment Office Management VII (C12H80) -or- Dual Enrollment Office Management VIII (C12H81) -or- Dual Enrollment

Program of Study	Level 1	Level 2	Level 3	Level 4
				Office Management IX (C12H82) -or- Dual Enrollment Office Management X (C12H83) -or- WBL Office Management Career Practicum ³ (C12H60)

¹ Satisfies ½ credit of Personal Finance required for graduation.

² Satisfies ½ credit of Economics required for graduation.

³ May be taught for 1 or 2 credits.

⁴ Satisfies ½ credit of US Government required for graduation.

Available courses for elective credit in this cluster:

- **American Business Legal Systems** ⁴ (C12H20) and **Business Economics** ² (C12H21) are supplemental courses that can be offered in addition to courses within the Business Management and Human Resources Management programs of study but do not count toward concentrator status.
- **JAG TN I (), JAG TN II (), JAG TN III (), and JAG TN IV** (C25H09) is a supplemental course that can be offered in addition to courses within the programs of study but does not count toward concentrator status.
- **Preparing for the ACT, Postsecondary, and Career** (C25H19) is a supplemental course that can be offered in addition to courses within the programs of study but does not count toward concentrator status.

Education & Training

Program of Study	Level 1	Level 2	Level 3	Level 4
Early Childhood Education Careers	Early Childhood Education Careers I (C32H06)	Early Childhood Education Careers II (C32H07)	Early Childhood Education Careers III (C32H08) -or- Dual Enrollment Early Childhood Education Careers I (C32H10) -or- Dual Enrollment Early Childhood Education Careers II (C32H18)	Early Childhood Education Careers IV (C32H09) -or- Foundational Literacy Practicum (C32H37) -or- Dual Enrollment Early Childhood Education Careers III (C32H22) -or- Dual Enrollment Early Childhood Education Careers IV (C32H23) -or- Dual Enrollment Early Childhood Education Careers V (C32H43) -or- Dual Enrollment Early Childhood Education Careers VI (C32H44) -or- Dual Enrollment Early Childhood Education Careers VII (C32H45) -or- Dual Enrollment Early Childhood Education Careers VIII (C32H46) -or- Dual Enrollment Early Childhood Education Careers IX (C32H47) -or- Dual Enrollment Early Childhood Education Careers X (C32H48) -or- SDC Introduction to Education (C32H28) -or- WBL Early Childhood Education Career Practicum ¹ (C32H34)

Program of Study	Level 1	Level 2	Level 3	Level 4
Educational Guidance and Social Services	Educational Guidance and Social Services I (C32H29)	Educational Guidance and Social Services II (C32H30)	Educational Guidance and Social Services III (C32H31) -or- Dual Enrollment Educational Guidance and Social Services I (C32H16) -or- Dual Enrollment Educational Guidance and Social Services II (C32H19)	Educational Guidance and Social Services Practicum (C32H32) -or- Dual Enrollment Educational Guidance and Social Services III (C32H24) -or- Dual Enrollment Educational Guidance and Social Services IV (C32H25) -or- Dual Enrollment Educational Guidance and Social Services V (C32H49) -or- Dual Enrollment Educational Guidance and Social Services VI (C32H50) -or- Dual Enrollment Educational Guidance and Social Services VII (C32H51) -or- Dual Enrollment Educational Guidance and Social Services VIII (C32H52) -or- Dual Enrollment Educational Guidance and Social Services IX (C32H53) -or- Dual Enrollment Educational Guidance and Social Services X (C32H54) -or- WBL Educational Guidance and Social Services Career Practicum ¹ (C32H35)
Teaching as a Profession (K-12)	Introduction to Teaching as a Profession (C32H33)	Teaching as a Profession I (C32H01)	Teaching as a Profession II (C32H02) -or- Dual Enrollment Teaching as a Profession (K-12) I (C32H04) -or- Dual Enrollment Teaching as a Profession (K-12) II (C32H05)	Teaching as a Profession Practicum ² (C32H03) -or- Foundational Literacy Practicum (C32H37) -or- Dual Enrollment Teaching as a Profession (K-12) III (C32H26) -or-

Program of Study	Level 1	Level 2	Level 3	Level 4
				Dual Enrollment Teaching as a Profession (K-12) IV (C32H27) -or- Dual Enrollment Teaching as a Profession (K-12) V (C32H55) -or- Dual Enrollment Teaching as a Profession (K-12) VI (C32H56) -or- Dual Enrollment Teaching as a Profession (K-12) VII (C32H57) -or- Dual Enrollment Teaching as a Profession (K-12) VIII (C32H58) -or- Dual Enrollment Teaching as a Profession (K-12) IX (C32H59) -or- Dual Enrollment Teaching as a Profession (K-12) X (C32H60) -or- SDC Introduction to Education (C32H28) -or- WBL Teaching as a Profession (K-12) Career Practicum ¹ (C32H36)

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.

Available courses for elective credit in this cluster:

- **JAG TN I (), JAG TN II (), JAG TN III (), and JAG TN IV** (C25H09) is a supplemental course that can be offered in addition to courses within the programs of study but does not count toward concentrator status.
- **Preparing for the ACT, Postsecondary, and Career** (C25H19) is a supplemental course that can be offered in addition to courses within the programs of study but does not count toward concentrator status.
- **Lifespan Development** (C19H17) can be offered in addition to courses within the programs of study but does not count towards concentrator status.

Finance

Program of Study	Level 1	Level 2	Level 3	Level 4
Accounting	Introduction to Business & Marketing (C12H26)	Accounting I (C29H00) -or- IGCSE Accounting (C29H08)	Accounting II (C29H01) -or- Dual Enrollment Accounting I (C29H05) -or- Dual Enrollment Accounting II (C29H07) -or- CIE Accounting 1 AS Level (C29H06)	Financial Planning (C29H02) -or- Statistics (G02H37) -or- AP Statistics (G02H26) -or- Dual Enrollment Accounting III (C29H12) -or- Dual Enrollment Accounting IV (C29H13) -or- Dual Enrollment Accounting V (C29H18) -or- Dual Enrollment Accounting VI (C29H19) -or- Dual Enrollment Accounting VII (C29H20) -or- Dual Enrollment Accounting VIII (C29H21) -or- Dual Enrollment Accounting IX (C29H22) -or- Dual Enrollment Accounting X (C29H23) -or- SDC Introductory Statistics (G02H75) -or- WBL Accounting Career Practicum ¹ (C29H16)
Banking and Finance	Introduction to Business & Marketing (C12H26)	Accounting I (C29H00) -or- IGCSE Accounting (C29H08)	Banking & Finance (C29H03) -or- Dual Enrollment Banking & Finance I (C29H09) -or- Dual Enrollment Banking & Finance II (C29H10)	Financial Planning (C29H02) -or- Dual Enrollment Banking & Finance III (C29H14) -or- Dual Enrollment Banking & Finance IV (C29H15)

Program of Study	Level 1	Level 2	Level 3	Level 4
				-or- Dual Enrollment Banking & Finance V (C29H24) -or- Dual Enrollment Banking & Finance VI (C29H25) -or- Dual Enrollment Banking & Finance VII (C29H26) -or- Dual Enrollment Banking & Finance VIII (C29H27) -or- Dual Enrollment Banking & Finance IX (C29H28) -or- Dual Enrollment Banking & Finance X (C29H29) -or- WBL Banking and Finance Career Practicum ¹ (C29H17)

¹ May be taught for 1 or 2 credits.

Available courses for elective credit in this cluster:

- **Personal Finance** (C29H11) is a course required for graduation but does not count toward concentrator status in a program of study.
- **JAG TN I (), JAG TN II (), JAG TN III (), and JAG TN IV** (C25H09) is a supplemental course that can be offered in addition to courses within the programs of study but does not count toward concentrator status.
- **Preparing for the ACT, Postsecondary, and Career** (C25H19) is a supplemental course that can be offered in addition to courses within the programs of study but does not count toward concentrator status.

Government & Public Administration

Program of Study	Level 1	Level 2	Level 3	Level 4
Leadership in Government	JROTC I ^{1 & 2} (G08H04)	JROTC II ^{1 & 2} (G08H05) -or- Public Management & Administration (C15H16)	U.S. Government & Civics (G04H12) -or- JROTC III ¹ (G08H06) -or- Dual Enrollment Leadership in Community Emergency Response I (C15H22) -or- Dual Enrollment Leadership in Community Emergency Response II (C15H23)	JROTC IV (G08H07) -or- Dual Enrollment Leadership in Community Emergency Response III (C15H25) -or- Dual Enrollment Leadership in Community Emergency Response IV (C15H26) -or- Dual Enrollment Leadership in Community Emergency Response V (C15H31) -or- Dual Enrollment Leadership in Community Emergency Response VI (C15H32) -or- Dual Enrollment Leadership in Community Emergency Response VII (C15H33) -or- Dual Enrollment Leadership in Community Emergency Response VIII (C15H34) -or- Dual Enrollment Leadership in Community Emergency Response IX (C15H35) -or- Dual Enrollment Leadership in Community Emergency Response X (C15H36) -or- WBL Leadership in Government Career Practicum ³ (C15H29)

¹ JROTC I, II, and III satisfies the graduation requirement for Physical Education, Personal Finance and U.S. Government & Civics for students who complete all three courses.

² JROTC I and II satisfies credit the graduation requirement for Wellness for students who complete both courses.

³ May be taught for 1 or 2 credits.

Available courses for elective credit in this cluster:

- **JAG TN I (), JAG TN II (), JAG TN III (), and JAG TN IV** (C25H09) is a supplemental course that can be offered in addition to courses within the programs of study but does not count toward concentrator status.
- **Preparing for the ACT, Postsecondary, and Career** (C25H19) is a supplemental course that can be offered in addition to courses within the programs of study but does not count toward concentrator status.
- **Success Skills through Service Learning** (C25H15) is a supplemental course that can be offered in addition to courses within the programs of study but does not count toward concentrator status.

Health Science

Program of Study	Level 1	Level 2	Level 3	Level 4
Behavioral Health (THIS POS AND ALL OF ITS COURSES GO INTO EFFECT FOR THE 2024-25 SCHOOL YEAR.)	Health Science Education (C14H14)	Human Anatomy & Physiology ¹ (G03H31) -or- Anatomy & Physiology ¹ (C14H09)	Behavioral Health () -or- Dual Enrollment Behavioral Health I () -or- Dual Enrollment Behavioral Health II ()	Behavioral Health Practicum () -or- Dual Enrollment Behavioral Health III () -or- Dual Enrollment Behavioral Health IV () -or- Dual Enrollment Behavioral Health V () -or- Dual Enrollment Behavioral Health VI () -or- Dual Enrollment Behavioral Health VII () -or- Dual Enrollment Behavioral Health VIII () -or- Dual Enrollment Behavioral Health IX () -or- Dual Enrollment Behavioral Health X () -or- WBL Behavioral Health Career Practicum ()
Diagnostic Services	Health Science Education (C14H14)	Human Anatomy & Physiology ¹ (G03H31) -or- Anatomy & Physiology ¹ (C14H09) -or- Dual Enrollment Human Anatomy & Physiology I ¹ (G03H43)	Diagnostic Medicine (C14H12) -or- Dual Enrollment Diagnostic Services I (C14H02) -or- Dual Enrollment Diagnostic Services II (C14H26) -or- Dual Enrollment Human Anatomy & Physiology II ¹ (G03H44)	Cardiovascular Services (C14H18) -or- Clinical Internship ³ (C14H11) -or- Dual Enrollment Diagnostic Services III (C14H37) -or- Dual Enrollment Diagnostic Services IV (C14H38) -or- Dual Enrollment Diagnostic Services V (C14H49) -or- Dual Enrollment Diagnostic Services VI (C14H50)

Program of Study	Level 1	Level 2	Level 3	Level 4
				-or- Dual Enrollment Diagnostic Services VII (C14H51) -or- Dual Enrollment Diagnostic Services VIII (C14H52) -or- Dual Enrollment Diagnostic Services IX (C14H53) -or- Dual Enrollment Diagnostic Services X (C14H54) -or- WBL Diagnostic Services Career Practicum ² (C14H19)
Emergency Services	Health Science Education (C14H14)	Human Anatomy & Physiology ¹ (G03H31) -or- Anatomy & Physiology ¹ (C14H09) -or- Dual Enrollment Human Anatomy & Physiology I ¹ (G03H43)	Medical Therapeutics (C14H15) -or- Dual Enrollment Emergency Services I (C14H04) -or- Dual Enrollment Emergency Services II (C14H29) -or- Dual Enrollment Human Anatomy & Physiology II ¹ (G03H44)	Emergency Medical Services ¹ (C14H13) -or- Emergency Medical Services Practicum ³ (C14H24) -or- Dual Enrollment Emergency Services III (C14H35) -or- Dual Enrollment Emergency Services IV (C14H36) -or- Dual Enrollment Emergency Services V (C14H55) -or- Dual Enrollment Emergency Services VI (C14H56) -or- Dual Enrollment Emergency Services VII (C14H57) -or- Dual Enrollment Emergency Services VIII (C14H58) -or- Dual Enrollment Emergency Services IX (C14H59) -or- Dual Enrollment Emergency Services X (C14H60) -or- WBL Emergency Services Career Practicum ²

Program of Study	Level 1	Level 2	Level 3	Level 4
				(C14H45)
Nursing Services	Health Science Education (C14H14)	Human Anatomy & Physiology ¹ (G03H31) -or- Anatomy & Physiology ¹ (C14H09) -or- Dual Enrollment Human Anatomy & Physiology I ¹ (G03H43)	Medical Therapeutics (C14H15) -or- Dual Enrollment Nursing Services I (C14H03) -or- Dual Enrollment Nursing Services II (C14H27) -or- Dual Enrollment Human Anatomy & Physiology II ¹ (G03H44)	Nursing Education ³ (C14H16) -or- Clinical Internship ³ (C14H11) -or- Dual Enrollment Nursing Services III (C14H33) -or- Dual Enrollment Nursing Services IV (C14H34) -or- Dual Enrollment Nursing Services V (C14H61) -or- Dual Enrollment Nursing Services VI (C14H62) -or- Dual Enrollment Nursing Services VII (C14H63) -or- Dual Enrollment Nursing Services VIII (C14H64) -or- Dual Enrollment Nursing Services IX (C14H65) -or- Dual Enrollment Nursing Services X (C14H66) -or- WBL Nursing Services Career Practicum ² (C14H46)
Sport and Human Performance	Health Science Education (C14H14)	Human Anatomy & Physiology ¹ (G03H31) -or- Anatomy & Physiology ¹ (C14H09) -or- Dual Enrollment Human Anatomy & Physiology I ¹ (G03H43)	Rehabilitation Careers (C14H08) -or- Dual Enrollment Sport and Human Performance I (C14H39) -or- Dual Enrollment Sport and Human Performance II (C14H40) -or- Dual Enrollment Human Anatomy & Physiology II ¹	Exercise Science (C14H22) -or- Clinical Internship (C14H11) -or- Dual Enrollment Sport and Human Performance III (C14H41) -or- Dual Enrollment Sport and Human Performance IV (C14H42) -or-

Program of Study	Level 1	Level 2	Level 3	Level 4
			(G03H44) -or- IB Sports, Exercise, & Health Science I SL/HL (G03H39)	Dual Enrollment Sport and Human Performance V (C14H67) -or- Dual Enrollment Sport and Human Performance VI (C14H68) -or- Dual Enrollment Sport and Human Performance VII (C14H69) -or- Dual Enrollment Sport and Human Performance VIII (C14H70) -or- Dual Enrollment Sport and Human Performance IX (C14H71) -or- Dual Enrollment Sport and Human Performance X (C14H72) -or- IB Sports, Exercise, & Health Science II SL/HL (G03H40) -or- WBL Sport and Human Performance Career Practicum ² (C14H47)
Therapeutic Services	Health Science Education (C14H14)	Human Anatomy & Physiology ¹ (G03H31) -or- Anatomy & Physiology ¹ (C14H09) -or- Dual Enrollment Human Anatomy & Physiology I ¹ (G03H43)	Dental Science (C14H21) -or- Pharmacological Sciences (C14H20) -or- Nutrition Science & Diet Therapy ¹ (C19H16) -or- Medical Therapeutics (C14H15) -or- Medical Assisting (C14H10) -or- Public Health & Epidemiology (C14H17) -or- Dual Enrollment Therapeutic Services I (C14H05)	Clinical Internship ³ (C14H11) -or- Dual Enrollment Therapeutic Services III (C14H43) -or- Dual Enrollment Therapeutic Services IV (C14H44) -or- Dual Enrollment Therapeutic Services V (C14H73) -or- Dual Enrollment Therapeutic Services VI (C14H74) -or- Dual Enrollment Therapeutic Services VII (C14H75)

Program of Study	Level 1	Level 2	Level 3	Level 4
			-or- Dual Enrollment Therapeutic Services II (C14H28) -or- Dual Enrollment Human Anatomy & Physiology II ¹ (G03H44)	-or- Dual Enrollment Therapeutic Services VIII (C14H76) -or- Dual Enrollment Therapeutic Services IX (C14H77) -or- Dual Enrollment Therapeutic Services X (C14H78) -or- Dual Enrollment Medical Assisting (C14H32) -or- WBL Therapeutic Services Career Practicum ² (C14H48)

¹ Satisfies the third lab science credit 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.

Available courses for elective credit in this cluster:

- **Medical Terminology** (C14H07) is a supplemental course that can be offered in addition to courses within the Health Science career cluster but does not count toward concentrator status.
- **Dual Enrollment Medical Terminology** (C14H31) is a supplemental dual enrollment course that can be offered in addition to courses within the Health Science career cluster but does not count toward concentrator status.
- **JAG TN I (), JAG TN II (), JAG TN III (), and JAG TN IV** (C25H09) is a supplemental course that can be offered in addition to courses within the programs of study but does not count toward concentrator status.
- **Preparing for the ACT, Postsecondary, and Career** (C25H19) is a supplemental course that can be offered in addition to courses within the programs of study but does not count toward concentrator status.

Hospitality & Tourism

Program of Study	Level 1	Level 2	Level 3	Level 4
Culinary Arts	Culinary Arts I (C16H06)	Culinary Arts II (C16H07)	Culinary Arts III (C16H08) -or- Dual Enrollment Culinary Arts I (C16H01) -or- Dual Enrollment Culinary Arts II (C16H14)	Culinary Arts IV (C16H09) -or- Dual Enrollment Culinary Arts III (C16H20) -or- Dual Enrollment Culinary Arts IV (C16H11) -or- Dual Enrollment Culinary Arts V (C16H23) -or- Dual Enrollment Culinary Arts VI (C16H24) -or- Dual Enrollment Culinary Arts VII (C16H25) -or- Dual Enrollment Culinary Arts VIII (C16H26) -or- Dual Enrollment Culinary Arts IX (C16H27) -or- Dual Enrollment Culinary Arts X (C16H28) -or- WBL Culinary Arts Career Practicum ¹ (C16H21)
Hospitality and Tourism Management	Hospitality & Tourism Management I (C16H17) -or- IGCSE Travel & Tourism (C16H03)	Hospitality & Tourism Management II (C16H18) -or- CIE Travel & Tourism 1 AS Level (C16H04)	Hospitality & Tourism Management III (C16H19) -or- Dual Enrollment Hospitality & Tourism Management I (C16H02) -or- Dual Enrollment Hospitality & Tourism Management II (C16H15)	Event Planning & Management (C16H12) -or- Dual Enrollment Hospitality & Tourism Management III (C16H10) -or- Dual Enrollment Hospitality & Tourism Management IV (C16H13) -or- Dual Enrollment Hospitality & Tourism Management V (C16H29) -or- Dual Enrollment Hospitality & Tourism

Program of Study	Level 1	Level 2	Level 3	Level 4
				Management VI (C16H30) -or- Dual Enrollment Hospitality & Tourism Management VII (C16H31) -or- Dual Enrollment Hospitality & Tourism Management VIII (C16H32) -or- Dual Enrollment Hospitality & Tourism Management IX (C16H33) -or- Dual Enrollment Hospitality & Tourism Management X (C16H34) -or- WBL Hospitality and Tourism Management Career Practicum ¹ (C16H22)

¹ May be taught for 1 or 2 credits.

Available courses for elective credit in this cluster:

- ***JAG TN I ()*, *JAG TN II ()*, *JAG TN III ()*, and *JAG TN IV*** (C25H09) is a supplemental course that can be offered in addition to courses within the programs of study but does not count toward concentrator status.
- ***Preparing for the ACT, Postsecondary, and Career*** (C25H19) is a supplemental course that can be offered in addition to courses within the programs of study but does not count toward concentrator status.

Human Services

Program of Study	Level 1	Level 2	Level 3	Level 4
Cosmetology	Cosmetology I (C19H12)	Cosmetology II (C19H14)	Cosmetology III (C19H13) -or- Dual Enrollment Cosmetology I (C19H04) -or- Dual Enrollment Cosmetology II (C19H23)	Cosmetology IV (C19H21) -or- Dual Enrollment Cosmetology III (C19H27) -or- Dual Enrollment Cosmetology IV (C19H28) -or- Dual Enrollment Cosmetology V (C19H39) -or- Dual Enrollment Cosmetology VI (C19H40) -or- Dual Enrollment Cosmetology VII (C19H41) -or- Dual Enrollment Cosmetology VIII (C19H42) -or- Dual Enrollment Cosmetology IX (C19H43) -or- Dual Enrollment Cosmetology X (C19H44) -or- WBL Cosmetology Career Practicum ⁴ (C19H35)
Barbering	Barbering I (C19H09)	Barbering II (C19H10)	Entrepreneurship ^{1&3} (C31H05) -or- Dual Enrollment Barbering I (C19H05) -or- Dual Enrollment Barbering II (C19H24)	Barbering III (C19H11) -or- Dual Enrollment Barbering III (C19H29) -or- Dual Enrollment Barbering IV (C19H30) -or- Dual Enrollment Barbering V (C19H45) -or- Dual Enrollment Barbering VI (C19H46) -or- Dual Enrollment Barbering VII (C19H47)

Program of Study	Level 1	Level 2	Level 3	Level 4
				-or- Dual Enrollment Barbering VIII (C19H48) -or- Dual Enrollment Barbering IX (C19H49) -or- Dual Enrollment Barbering X (C19H50) -or- WBL Barbering Career Practicum ⁴ (C19H36)
Dietetics and Nutrition	Introduction to Human Studies (C19H19)	Nutrition Across the Lifespan (C19H15) -or- IGCSE Food & Nutrition (C19H08)	Nutrition Science & Diet Therapy ² (C19H16) -or- Dual Enrollment Dietetics & Nutrition I (C19H03) -or- Dual Enrollment Dietetics & Nutrition II (C19H22)	Human Services Practicum (C19H20) -or- Psychology (G04H15) -or- Sociology (G04H14) -or- Dual Enrollment Dietetics & Nutrition III (C19H31) -or- Dual Enrollment Dietetics & Nutrition IV (C19H32) -or- Dual Enrollment Dietetics & Nutrition V (C19H51) -or- Dual Enrollment Dietetics & Nutrition VI (C19H52) -or- Dual Enrollment Dietetics & Nutrition VII (C19H53) -or- Dual Enrollment Dietetics & Nutrition VIII (C19H54) -or- Dual Enrollment Dietetics & Nutrition IX (C19H55) -or- Dual Enrollment Dietetics & Nutrition X (C19H56) -or- WBL Dietetics and Nutrition Career Practicum ⁴ (C19H37)

Program of Study	Level 1	Level 2	Level 3	Level 4
Human and Social Sciences	Introduction to Human Studies (C19H19)	Lifespan Development (C19H17)	Family Studies (C19H18) -or- Dual Enrollment Human & Social Sciences I (C19H02) -or- Dual Enrollment Human & Social Sciences II (C19H26) -or- IGCSE Sociology (G04H65)	Human Services Practicum (C19H20) -or- Psychology (G04H15) -or- Sociology (G04H14) -or- Dual Enrollment Human & Social Sciences III (C19H33) -or- Dual Enrollment Human & Social Sciences IV (C19H34) -or- Dual Enrollment Human & Social Sciences V (C19H57) -or- Dual Enrollment Human & Social Sciences VI (C19H58) -or- Dual Enrollment Human & Social Sciences VII (C19H59) -or- Dual Enrollment Human & Social Sciences VIII (C19H60) -or- Dual Enrollment Human & Social Sciences IX (C19H61) -or- Dual Enrollment Human & Social Sciences X (C19H62) -or- WBL Human and Social Sciences Career Practicum ⁴ (C19H38)

¹ Satisfies ½ credit of Economics required for graduation.

² Satisfies the third lab science credit for graduation.

³ Satisfies ½ credit of Personal Finance required for graduation.

⁴ May be taught for 1 or 2 credits.

Available courses for elective credit in this cluster:

- **JAG TN I (), JAG TN II (), JAG TN III (), and JAG TN IV** (C25H09) is a supplemental course that can be offered in addition to courses within the programs of study but does not count toward concentrator status.
- **Preparing for the ACT, Postsecondary, and Career** (C25H19) is a supplemental course that can be offered in addition to courses within the programs of study but does not count toward concentrator status.

Information Technology

Program of Study	Level 1	Level 2	Level 3	Level 4
Coding	Computer Science Foundations ¹ (C10H11) -or- IGCSE Computer Science ¹ (C10H07)	Coding I ¹ (C10H14)	Coding II ¹ (C10H15) -or- Mobile App Development ¹ (C10H22) -or- AP Computer Science Principles ¹ (G02H44) -or- Dual Enrollment Coding I ¹ (C10H01) -or- Dual Enrollment Coding II ¹ (C10H28)	Coding Practicum ^{1 & 4} (C10H08) -or- AP Computer Science A ¹ (G02H45) -or- Dual Enrollment Coding III ¹ (C10H32) -or- Dual Enrollment Coding IV ¹ (C10H33) -or- Dual Enrollment Coding V ¹ (C10H44) -or- Dual Enrollment Coding VI ¹ (C10H45) -or- Dual Enrollment Coding VII ¹ (C10H46) -or- Dual Enrollment Coding VIII ¹ (C10H47) -or- Dual Enrollment Coding IX ¹ (C10H48) -or- Dual Enrollment Coding X ¹ (C10H49) -or- CIE Computer Science 1 AS Level ¹ (C10H25) -or- WBL Coding Career Practicum ² (C10H40)
Cybersecurity	Computer Science Foundations ¹ (C10H11)	Cybersecurity I ¹ (C10H19)	Cybersecurity II ¹ (C10H20) -or- AP Computer Science Principles ¹ (G02H44) -or- Dual Enrollment Cybersecurity I ¹ (C10H24) -or- Dual Enrollment Cybersecurity II ¹	Cybersecurity Practicum ^{1 & 4} (C10H21) -or- Dual Enrollment Cybersecurity III ¹ (C10H34) -or- Dual Enrollment Cybersecurity IV ¹ (C10H35) -or- Dual Enrollment Cybersecurity V ¹

Program of Study	Level 1	Level 2	Level 3	Level 4
			(C10H31)	(C10H50) -or- Dual Enrollment Cybersecurity VI ¹ (C10H51) -or- Dual Enrollment Cybersecurity VII ¹ (C10H52) -or- Dual Enrollment Cybersecurity VIII ¹ (C10H53) -or- Dual Enrollment Cybersecurity IX ¹ (C10H54) -or- Dual Enrollment Cybersecurity X ¹ (C10H55) -or- WBL Cybersecurity Career Practicum ² (C10H41)
Networking Systems	Computer Science Foundations ¹ (C10H11)	Computer Systems (C10H10)	Networking (C10H13) -or- Dual Enrollment Networking Systems I (C10H02) -or- Dual Enrollment Networking Systems II (C10H29)	Cabling & Internetworking (C10H09) -or- IT Clinical Internship ⁴ (C10H12) -or- Dual Enrollment Networking Systems III (C10H36) -or- Dual Enrollment Networking Systems IV (C10H37) -or- Dual Enrollment Networking Systems V (C10H56) -or- Dual Enrollment Networking Systems VI (C10H57) -or- Dual Enrollment Networking Systems VII (C10H58) -or- Dual Enrollment Networking Systems VIII (C10H59) -or- Dual Enrollment Networking Systems IX (C10H60) -or- Dual Enrollment

Program of Study	Level 1	Level 2	Level 3	Level 4
				Networking Systems X (C10H61) -or- WBL Networking Systems Career Practicum ² (C10H42)
Web Design	Computer Science Foundations (C10H11) ¹ -or- IGCSE Information and Communication Technology (C10H26)	Web Design Foundations (C10H16) ³	Web Site Development (C10H17) -or- AP Computer Science Principles ¹ (G02H44) -or- Dual Enrollment Web Design I (C10H03) -or- Dual Enrollment Web Design II (C10H30)	Web Design Practicum ⁴ (C10H18) -or- Dual Enrollment Web Design III (C10H38) -or- Dual Enrollment Web Design IV (C10H39) -or- Dual Enrollment Web Design V (C10H62) -or- Dual Enrollment Web Design VI (C10H63) -or- Dual Enrollment Web Design VII (C10H64) -or- Dual Enrollment Web Design VIII (C10H65) -or- Dual Enrollment Web Design IX (C10H66) -or- Dual Enrollment Web Design X (C10H67) -or- WBL Web Design Career Practicum ² (C10H43)

¹ May count for the computer science graduation requirement.

² May be taught for 1 or 2 credits.

³ Satisfies the one fine arts credit required for graduation.

⁴ A student pursuing an Industry 4.0 diploma distinction may substitute their 4th credit of math with this work-based learning course.

Available courses for elective credit in this cluster:

- **Introduction to Geographical Information Systems (GIS)** (C18H39) is a supplemental course that can be offered in addition to courses within the Cybersecurity program of study but does not count toward concentrator status.
- **JAG TN I (), JAG TN II (), JAG TN III (), and JAG TN IV** (C25H09) is a supplemental course that can be offered in addition to courses within the programs of study but does not count toward concentrator status.
- **Preparing for the ACT, Postsecondary, and Career** (C25H19) is a supplemental course that can be offered in addition to courses within the programs of study but does not count toward concentrator status.

Law, Public Safety, Corrections, & Security

Program of Study	Level 1	Level 2	Level 3	Level 4
Criminal Justice and Correction Services	Criminal Justice I (C30H00)	Criminal Justice II (C30H01)	Criminal Justice III: Forensic Criminal Investigations (C30H02) -or- SDC Criminal Justice ¹ (C30H11) -or- Dual Enrollment Criminal Justice and Correction Services I (C30H12) -or- Dual Enrollment Criminal Justice and Correction Services II (C30H13)	Criminal Justice Practicum (C30H03) -or- Dual Enrollment Criminal Justice and Correction Services III (C30H20) -or- Dual Enrollment Criminal Justice and Correction Services IV (C30H21) -or- Dual Enrollment Criminal Justice and Correction Services V (C30H29) -or- Dual Enrollment Criminal Justice and Correction Services VI (C30H30) -or- Dual Enrollment Criminal Justice and Correction Services VII (C30H31) -or- Dual Enrollment Criminal Justice and Correction Services VIII (C30H32) -or- Dual Enrollment Criminal Justice and Correction Services IX (C30H33) -or- Dual Enrollment Criminal Justice and Correction Services X (C30H34) -or- Unmanned Aircraft Systems for Criminal Justice (C30H18) -or- WBL Criminal Justice and Correction Services Career Practicum ⁴ (C30H27)

Program of Study	Level 1	Level 2	Level 3	Level 4
Fire Management Services	Principles of Fire & Emergency Services (C30H04)	Fire Prevention (C30H05)	Fire Science I (C30H06) -or- Dual Enrollment Fire Management Services I (C30H14) -or- Dual Enrollment Fire Management Services II (C30H15)	Fire Science II (C30H07) -or- Dual Enrollment Fire Management Services III (C30H22) -or- Dual Enrollment Fire Management Services IV (C30H23) -or- Dual Enrollment Fire Management Services V (C30H35) -or- Dual Enrollment Fire Management Services VI (C30H36) -or- Dual Enrollment Fire Management Services VII (C30H37) -or- Dual Enrollment Fire Management Services VIII (C30H38) -or- Dual Enrollment Fire Management Services IX (C30H39) -or- Dual Enrollment Fire Management Services X (C30H40) -or- WBL Fire Management Services Career Practicum ⁴ (C30H26)
Pre-Law	Pre-Law I ² (C30H08)	Pre-Law II ² (C30H09)	Pre-Law III ² (C30H10) -or- Dual Enrollment Pre-Law I (C30H16) -or- Dual Enrollment Pre-Law II (C30H17)	Pre-Law Practicum (C30H19) -or- AP U.S. Government & Politics ² (G04H26) -or- Dual Enrollment Pre-Law III (C30H24) -or- Dual Enrollment Pre-Law IV

Program of Study	Level 1	Level 2	Level 3	Level 4
				(C30H25) -or- Dual Enrollment Pre-Law V (C30H41) -or- Dual Enrollment Pre-Law VI (C30H42) -or- Dual Enrollment Pre-Law VII (C30H43) -or- Dual Enrollment Pre-Law VIII (C30H44) -or- Dual Enrollment Pre-Law IX (C30H45) -or- Dual Enrollment Pre-Law X (C30H46) -or- WBL Pre-Law Career Practicum ⁴ (C30H28)

¹ Statewide Dual Credit Criminal Justice **requires** Criminal Justice I **and** Criminal Justice II as prerequisite courses. Students cannot take Statewide Dual Credit Criminal Justice without having already completed the first two courses in the program of study.

² Pre-Law I, II, and III satisfies credit the graduation requirement for U.S. Government and Civics for students who complete all three courses.

³ Satisfies ½ credit of US Government required for graduation.

⁴ May be taught for 1 or 2 credits.

Available courses for elective credit in this cluster:

- **American Business Legal Systems** ³ (C12H20) is a supplemental course that can be offered in addition to courses within the Pre-Law program of study but does not count toward concentrator status.
- **JAG TN I (), JAG TN II (), JAG TN III (), and JAG TN IV** (C25H09) is a supplemental course that can be offered in addition to courses within the programs of study but does not count toward concentrator status.
- **Preparing for the ACT, Postsecondary, and Career** (C25H19) is a supplemental course that can be offered in addition to courses within the programs of study but does not count toward concentrator status.

Marketing, Distribution & Logistics

Program of Study	Level 1	Level 2	Level 3	Level 4
Entrepreneurship	Introduction to Entrepreneurship (C31H23)	Marketing & Management I: Principles ¹ (C31H00)	Entrepreneurship ^{1 & 4} (C31H05) -or- Dual Enrollment Entrepreneurship I (C31H12) -or- Dual Enrollment Entrepreneurship II (C31H14) -or- IGCSE Enterprise (C31H13)	Business & Entrepreneurship Practicum (C12H35) -or- retired-or- Dual Enrollment Entrepreneurship III (C31H17) -or- Dual Enrollment Entrepreneurship IV (C31H18) -or- Dual Enrollment Entrepreneurship V (C31H31) -or- Dual Enrollment Entrepreneurship VI (C31H32) -or- Dual Enrollment Entrepreneurship VII (C31H33) -or- Dual Enrollment Entrepreneurship VIII (C31H34) -or- Dual Enrollment Entrepreneurship IX (C31H35) -or- Dual Enrollment Entrepreneurship X (C31H36) -or- WBL Entrepreneurship Career Practicum ² (C31H29)
Marketing Management	Introduction to Business & Marketing (C12H26)	Marketing & Management I: Principles ¹ (C31H00)	Marketing & Management II: Advanced Strategies (C31H01) -or- Social Media and Analytics (C31H02) -or- Dual Enrollment Marketing Management I (C31H10) -or- Dual Enrollment Marketing Management II (C31H11) -or- SDC Principles of Marketing	Advertising & Public Relations (C31H03) -or- Retail Operations ¹ (C31H04) -or- Event Planning & Management (C16H12) -or- Dual Enrollment Marketing Management III (C31H19) -or- Dual Enrollment Marketing Management IV

Program of Study	Level 1	Level 2	Level 3	Level 4
			(C31H27)	(C31H20) -or- Dual Enrollment Marketing Management V (C31H37) -or- Dual Enrollment Marketing Management VI (C31H38) -or- Dual Enrollment Marketing Management VII (C31H39) -or- Dual Enrollment Marketing Management VIII (C31H40) -or- Dual Enrollment Marketing Management IX (C31H41) -or- Dual Enrollment Marketing Management X (C31H42) -or- WBL Marketing Management Career Practicum ² (C31H28)
Supply Chain Management	Introduction to Business & Marketing (C12H26)	Supply Chain Management I: Principles and Foundations (C31H24)	Supply Chain Management II: Warehousing and Distribution (C31H25) -or- Dual Enrollment Supply Chain Management I (C31H15) -or- Dual Enrollment Supply Chain Management II (C31H16)	Supply Chain Management III: Management and Logistics (C31H26) -or- Supply Chain Management Practicum ³ (C31H09) -or- Dual Enrollment Supply Chain Management III (C31H21) -or- Dual Enrollment Supply Chain Management IV (C31H22) -or- Dual Enrollment Supply Chain Management V (C31H43) -or- Dual Enrollment Supply Chain Management VI (C31H44) -or- Dual Enrollment

Program of Study	Level 1	Level 2	Level 3	Level 4
				Supply Chain Management VII (C31H45) -or- Dual Enrollment Supply Chain Management VIII (C31H46) -or- Dual Enrollment Supply Chain Management IX (C31H47) -or- Dual Enrollment Supply Chain Management X (C31H48) -or- WBL Supply Chain Management Career Practicum ² (C31H30)

¹ Satisfies ½ credit of Economics 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.

⁴ Satisfies ½ credit of Personal Finance required for graduation.

Available courses for elective credit in this cluster:

- **JAG TN I (), JAG TN II (), JAG TN III (), and JAG TN IV** (C25H09) is a supplemental course that can be offered in addition to courses within the programs of study but does not count toward concentrator status.
- **Preparing for the ACT, Postsecondary, and Career** (C25H19) is a supplemental course that can be offered in addition to courses within the programs of study but does not count toward concentrator status.

STEM

Program of Study	Level 1	Level 2	Level 3	Level 4
Advanced STEM Applications	STEM I: Foundation ¹ (C21H15)	STEM II: Applications ¹ (C21H16)	STEM III: STEM in Context ¹ (C21H17) -or- AP Computer Science Principles ^{4 & 5} (G02H44) -or- Dual Enrollment Advanced STEM Applications I (C21H32) -or- Dual Enrollment Advanced STEM Applications II (C21H33)	STEM IV: STEM Practicum ³ (C21H18) -or- AP Calculus AB ⁵ (G02H24) -or- AP Calculus BC ⁵ (G02H25) -or- AP Computer Science A ^{4 & 5} (G02H45) -or- AP Biology (G03H10) -or- AP Chemistry (G03H16) -or- AP Physics I: Algebra-Based ⁵ (G03H27) -or- AP Physics II: Algebra-Based ⁵ (G03H28) -or- AP Physics C: Electricity & Magnetism ⁵ (G03H24) -or- AP Physics C: Mechanics ⁵ (G03H29) -or- Dual Enrollment Advanced STEM Applications III (C21H35) -or- Dual Enrollment Advanced STEM Applications IV (C21H36) -or- Dual Enrollment Advanced STEM Applications V (C21H49) -or- Dual Enrollment Advanced STEM Applications VI (C21H50) -or- Dual Enrollment

Program of Study	Level 1	Level 2	Level 3	Level 4
				Advanced STEM Applications VII (C21H51) -or- Dual Enrollment Advanced STEM Applications VIII (C21H52) -or- Dual Enrollment Advanced STEM Applications IX (C21H53) -or- Dual Enrollment Advanced STEM Applications X (C21H54) -or- IB Biology II SL/HL (G03H69) -or- IB Physics II SL (G03H82) -or- WBL Advanced STEM Applications Career Practicum ² (C21H45)
BioSTEM	BioSTEM I ¹ (C21H07)	BioSTEM II ¹ (C21H08) -or- Biology I (G03H03)	BioSTEM III ¹ (C21H09) -or- Dual Enrollment BioSTEM I (C21H37) -or- Dual Enrollment BioSTEM II (C21H38)	BioSTEM Practicum (C21H10) -or- Dual Enrollment BioSTEM III (C21H39) -or- Dual Enrollment BioSTEM IV (C21H40) -or- Dual Enrollment BioSTEM V (C21H55) -or- Dual Enrollment BioSTEM VI (C21H56) -or- Dual Enrollment BioSTEM VII (C21H57) -or- Dual Enrollment BioSTEM VIII (C21H58) -or- Dual Enrollment BioSTEM IX (C21H59) -or- Dual Enrollment

Program of Study	Level 1	Level 2	Level 3	Level 4
				BioSTEM X (C21H60) -or- WBL BioSTEM Career Practicum ² (C21H46)
Engineering	Principles of Engineering & Technology (C21H04)	Engineering Design I ¹ (C21H05) -or- IGCSE Design & Technology (C21H03)	Engineering Design II ¹ (C21H06) -or- AP Computer Science Principles ^{4 & 5} (G02H44) -or- Dual Enrollment Engineering I (C21H00) -or- Dual Enrollment Engineering II (C21H11)	Engineering Practicum ³ (C21H14) -or- AP Physics I: Algebra-Based ⁵ (G03H27) -or- AP Physics II: Algebra-Based ⁵ (G03H28) -or- AP Physics C: Electricity & Magnetism ⁵ (G03H24) -or- AP Physics C: Mechanics ⁵ (G03H29) -or- AP Computer Science A ^{4 & 5} (G02H45) -or- Dual Enrollment Engineering III (C21H41) -or- Dual Enrollment Engineering IV (C21H42) -or- Dual Enrollment Engineering V (C21H61) -or- Dual Enrollment Engineering VI (C21H62) -or- Dual Enrollment Engineering VII (C21H63) -or- Dual Enrollment Engineering VIII (C21H64) -or- Dual Enrollment Engineering IX (C21H65) -or- Dual Enrollment Engineering X (C21H66) -or- CIE

Program of Study	Level 1	Level 2	Level 3	Level 4
				Design & Technology 1 AS Level (C10H05) -or- IB Physics II SL (G03H82) -or- WBL Engineering Career Practicum ² (C21H47)
Technology	Principles of Engineering & Technology (C21H04)	Digital Electronics (C13H07)	Robotics & Automated Systems (C13H15) -or- AP Computer Science Principles ^{4 & 5} (G02H44) -or- Dual Enrollment Technology I (C21H01) -or- Dual Enrollment Technology II (C21H12)	Engineering Practicum ³ (C21H14) -or- AP Physics I: Algebra-Based ⁵ (G03H27) -or- AP Physics II: Algebra-Based ⁵ (G03H28) -or- AP Physics C: Electricity & Magnetism ⁵ (G03H24) -or- AP Physics C: Mechanics ⁵ (G03H29) -or- AP Computer Science A ^{4 & 5} (G02H45) -or- Dual Enrollment Technology III (C21H43) -or- Dual Enrollment Technology IV (C21H44) -or- Dual Enrollment Technology V (C21H67) -or- Dual Enrollment Technology VI (C21H68) -or- Dual Enrollment Technology VII (C21H69) -or- Dual Enrollment Technology VIII (C21H70) -or- Dual Enrollment Technology IX

Program of Study	Level 1	Level 2	Level 3	Level 4
				(C21H71) -or- Dual Enrollment Technology X (C21H72) -or- IB Physics II SL (G03H82) -or- WBL Technology Career Practicum ² (C21H48)

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.

⁴ May count for the computer science graduation requirement.

⁵ Satisfies the fourth math credit required for graduation.

Available courses for elective credit in this cluster:

- **Introduction to Geographical Information Systems (GIS)** (C18H39) is a supplemental course that can be offered in addition to courses within these programs of study but does not count toward concentrator status.
- **Foundations of Technology (EBD)** (C21H27) is a supplemental course that can be offered in addition to courses within these programs of study but does not count toward concentrator status.
- **Technological Design (EBD)** (C21H28) is a supplemental course that can be offered in addition to courses within these programs of study but does not count toward concentrator status.
- **Advanced Design Applications (EBD)** (C21H29) is a supplemental course that can be offered in addition to courses within these programs of study but does not count toward concentrator status.
- **Advanced Technological Applications (EBD)** (C21H30) is a supplemental course that can be offered in addition to courses within these programs of study but does not count toward concentrator status.
- **Engineering Design (EBD)** (C21H31) is a supplemental course that can be offered in addition to courses within these programs of study but does not count toward concentrator status.
- **Introduction to Engineering Design (PLTW)** (C21H19) is a supplemental course that can be offered in addition to courses within these programs of study but does not count toward concentrator status.
- **Principles of Engineering (PLTW)** ¹ (C21H20) is a supplemental course that can be offered in addition to courses within these programs of study but does not count toward concentrator status.
- **Aerospace Engineering (PLTW)** (C21H21) is a supplemental course that can be offered in addition to courses within these programs of study but does not count toward concentrator status.
- **Civil Engineering & Architecture (PLTW)** (C21H22) is a supplemental course that can be offered in addition to courses within these programs of study but does not count toward concentrator status.
- **Biotechnical Engineering (PLTW)** (C21H23) is a supplemental course that can be offered in addition to courses within these programs of study but does not count toward concentrator status.
- **Digital Electronics (PLTW)** (C21H24) is a supplemental course that can be offered in addition to courses within these programs of study but does not count toward concentrator status.
- **Computer Integrated Manufacturing (PLTW)** (C21H25) is a supplemental course that can be offered in addition to courses within these programs of study but does not count toward concentrator status.
- **Engineering Design & Development (PLTW)** (C21H26) is a supplemental course that can be offered in addition to courses within these programs of study but does not count toward concentrator status.
- **Medical Detectives (PLTW)** (C14801) is a supplemental course that can be offered in addition to courses within these programs of study but does not count toward concentrator status.
- **Energy & the Environment (PLTW)** (C25802) is a supplemental course that can be offered in addition to courses within these programs of study but does not count toward concentrator status.
- **JAG TN I (), JAG TN II (), JAG TN III (), and JAG TN IV** (C25H09) is a supplemental course that can be offered in addition to courses within the programs of study but does not count toward concentrator status.
- **Preparing for the ACT, Postsecondary, and Career** (C25H19) is a supplemental course that can be offered in addition to courses within the programs of study but does not count toward concentrator status.

Transportation

Program of Study	Level 1	Level 2	Level 3	Level 4
Automotive Maintenance and Light Repair	Maintenance & Light Repair I (C20H09)	Maintenance & Light Repair II (C20H10)	Maintenance & Light Repair III (C20H11) -or- Dual Enrollment Automotive Maintenance & Light Repair I (C20H01) -or- Dual Enrollment Automotive Maintenance & Light Repair II (C20H21)	Maintenance & Light Repair IV (C20H12) -or- Dual Enrollment Automotive Maintenance & Light Repair III (C20H22) -or- Dual Enrollment Automotive Maintenance & Light Repair IV (C20H30) -or- Dual Enrollment Automotive Maintenance & Light Repair V (C20H37) -or- Dual Enrollment Automotive Maintenance & Light Repair VI (C20H38) -or- Dual Enrollment Automotive Maintenance & Light Repair VII (C20H39) -or- Dual Enrollment Automotive Maintenance & Light Repair VIII (C20H40) -or- Dual Enrollment Automotive Maintenance & Light Repair IX (C20H41) -or- Dual Enrollment Automotive Maintenance & Light Repair X (C20H42) -or- WBL Automotive Maintenance and Light Repair Career Practicum ¹ (C20H34)
Automotive Collision Repair	Introduction to Collision Repair (C20H20)	Collision Repair: Non-Structural (C20H13)	Collision Repair: Painting & Refinishing (C20H14) -or- Dual Enrollment Automotive Collision Repair I (C20H02) -or- Dual Enrollment	Collision Repair: Damage Analysis, Estimating, and Customer Service (C20H19) -or- Dual Enrollment Automotive Collision Repair III (C20H24) -or-

Program of Study	Level 1	Level 2	Level 3	Level 4
			Automotive Collision Repair II (C20H23)	Dual Enrollment Automotive Collision Repair IV (C20H31) -or- Dual Enrollment Automotive Collision Repair V (C20H43) -or- Dual Enrollment Automotive Collision Repair VI (C20H44) -or- Dual Enrollment Automotive Collision Repair VII (C20H45) -or- Dual Enrollment Automotive Collision Repair VIII (C20H46) -or- Dual Enrollment Automotive Collision Repair IX (C20H47) -or- Dual Enrollment Automotive Collision Repair X (C20H48) -or- WBL Automotive Collision Repair Career Practicum ¹ (C20H35)
Aviation Flight	Introduction to Aerospace (C20H15)	Aviation I: Principles of Flight (C20H16)	Aviation II: Advanced Flight (C20H18) -or- Dual Enrollment Aviation Flight I (C20H03) -or- Dual Enrollment Aviation Flight II (C20H28)	Unmanned Aircraft Systems Pilot (C20H29) -or- Dual Enrollment Aviation Flight III (C20H32) -or- Dual Enrollment Aviation Flight IV (C20H33) -or- Dual Enrollment Aviation Flight V (C20H49) -or- Dual Enrollment Aviation Flight VI (C20H50) -or- Dual Enrollment Aviation Flight VII

Program of Study	Level 1	Level 2	Level 3	Level 4
				(C20H51) -or- Dual Enrollment Aviation Flight VIII (C20H52) -or- Dual Enrollment Aviation Flight IX (C20H53) -or- Dual Enrollment Aviation Flight X (C20H54) -or- WBL Aviation Flight Career Practicum ¹ (C20H36)

¹ May be taught for 1 or 2 credits.

Available courses for elective credit in this cluster:

- **JAG TN I (), JAG TN II (), JAG TN III (), and JAG TN IV** (C25H09) is a supplemental course that can be offered in addition to courses within the programs of study but does not count toward concentrator status.
- **Preparing for the ACT, Postsecondary, and Career** (C25H19) is a supplemental course that can be offered in addition to courses within the programs of study but does not count toward concentrator status.

Middle School

Career Cluster	6 th Grade	7 th Grade	8 th Grade
Advanced Manufacturing	STEM Explorers (C25600) Career Awareness (C25X06)	STEM Innovators (C25701) Career Exploration (C25X07)	STEM Designers (C25801) Career Advising and Planning (C25X08)
Agriculture, Food, & Natural Resources	Career Awareness (C25X06) Exploring Agriculture Education ()	Introduction to Agriculture Education () Career Exploration (C25X07)	Introduction to Agriculture Sciences (C18X00) Career Advising and Planning (C25X08)
Architecture & Construction	STEM Explorers (C25600) Career Awareness (C25X06)	STEM Innovators (C25701) Career Exploration (C25X07)	STEM Designers (C25801) Career Advising and Planning (C25X08)
Arts, Audio/Visual Technology, & Communication	Keyboarding Fundamentals () Career Awareness (C25X06)	Keyboarding Fundamentals () Career Exploration (C25X07)	Computer Applications (C12X00) Keyboarding Fundamentals () Career Advising and Planning (C25X08) Exploring Business and Marketing ()
Business Management & Administration	Keyboarding Fundamentals () Career Awareness (C25X06)	Keyboarding Fundamentals () Career Exploration (C25X07) Exploring Business and Marketing ()	Computer Applications (C12X00) Keyboarding Fundamentals () Career Advising and Planning (C25X08)
Education & Training	Introduction to Social Health ¹ (C19X00) Career Awareness (C25X06)	Introduction to Social Health ¹ (C19X00) Career Exploration (C25X07)	Introduction to Social Health ¹ (C19X00) Career Advising and Planning (C25X08)
Finance	Keyboarding Fundamentals () Career Awareness (C25X06)	Keyboarding Fundamentals () Career Exploration (C25X07)	Computer Applications (C12X00) Keyboarding Fundamentals () Career Advising and Planning (C25X08)
Government & Public Administration	Career Awareness (C25X06)	Career Exploration (C25X07)	Career Advising and Planning (C25X08)
Health Science	Career Awareness (C25X06)	Introduction to Health Science (C14X00) Career Exploration (C25X07)	Introduction to Health Science (C14X00) Career Advising and Planning (C25X08)
Hospitality & Tourism	Career Awareness (C25X06)	Career Exploration (C25X07)	Career Advising and Planning (C25X08)
Human Services	Introduction to Social Health ¹ (C19X00) Career Awareness (C25X06)	Introduction to Social Health ¹ (C19X00) Career Exploration (C25X07)	Introduction to Social Health ¹ (C19X00) Career Advising and Planning (C25X08)
Information Technology	Keyboarding Fundamentals () STEM Explorers (C25600) Computer Science Discoveries (C25X04) Career Awareness (C25X06)	Keyboarding Fundamentals () STEM Innovators (C25701) Computer Science (G25X40) Computer Science: Flexible Scheduling (G25X41) Computer Science Discoveries (C25X04) Career Exploration (C25X07)	Computer Applications (C12X00) Keyboarding Fundamentals () STEM Designers (C25801) Career Advising and Planning (C25X08) Computer Science (G25X40) Computer Science: Flexible Scheduling (G25X41) Computer Science Discoveries (C25X04)
Law, Public Safety, Corrections, & Security	Career Awareness (C25X06)	Career Exploration (C25X07)	Career Advising and Planning (C25X08)

Career Cluster	6 th Grade	7 th Grade	8 th Grade
Marketing, Distribution & Logistics	Keyboarding Fundamentals () Career Awareness (C25X06)	Keyboarding Fundamentals () Career Exploration (C25X07)	Computer Applications (C12X00) Keyboarding Fundamentals () Career Advising and Planning (C25X08)
STEM	STEM Explorers (C25600) Computer Science Discoveries (C25X04) Career Awareness (C25X06)	STEM Innovators (C25701) Computer Science Discoveries (C25X04) Career Exploration (C25X07)	STEM Designers (C25801) Career Advising and Planning (C25X08) Computer Science Discoveries (C25X04)
Transportation	STEM Explorers (C25600) Career Awareness (C25X06)	STEM Innovators (C25701) Career Exploration (C25X07)	STEM Designers (C25801) Career Advising and Planning (C25X08)

¹ *Introduction to Social Health* may also be used with 5th-grade students (C19X00).

Middle School *Engineering by Design (EBD)* and *Project Lead the Way (PLTW)* curriculum package courses. Note, these courses may require additional costs and training to implement.

C25700 – Inventions & Innovators (EBD)
 C25800 – Technological Systems (EBD)
 C25802 – Energy & the Environment (PLTW)
 C25803 – Flight & Space (PLTW)
 C25804 – Green Architecture (PLTW)
 C25805 – Magic of Electrons (PLTW)
 C25806 – Science & Technology (PLTW)
 C25X01 – Exploring Technology (EBD)
 C25X02 – Design & Modeling (PLTW)
 C25X03 – Automation & Robotics (PLTW)