

Engineering, Project Lead the Way, & Industrial Technology Career Clusters

Career Cluster	Pathway	Courses & Credit	Location	Professions
Agriculture, Food, & Natural Resources	Metal Technology/Welding	9000 Industrial Arts Technology (2 HS Credits) S1& S2	High Schools	Welder/Cutter, Tool & Die Maker
		9009 Welding Technology (2 HS Credits) S1& S2	Harry Hopkins	
		9031 Welding I (2 HS Credits) S1& S2	Harry Hopkins	
		9G54A/WEL 120 Oxy Fuel Welding (2 HS Credits, 2 WITCC Credits) S1	WITCC	
		9G55A/WEL 186 GMAW Gas Metal Arc Welding (2 HS, 4 WITCC Credits) S1		
		9G34B/WEL 161 SMAW Arc Welding 1 (4 HS Credits, 3 WITCC Credits) S2		
Architecture & Construction	Construction	9000 Industrial Arts Technology (2 HS Credits) S1 & S2	High Schools	Construction Manager (Residential or Commercial), Carpenter, Construction Labor
		9004 Woodworking (2 HS Credits) S1 & S2	West	
		9008/CON 136 Introduction to Construction Shop (2 HS Credits, 1 Articulated WITCC Credit) S1 & S2	West	
		9G18A/CON 204 Basic Framing Techniques (2 HS Credits, 4 WITCC Credits) S1	WITCC	
		9G16B/CON 209 Intro to Drywall (1 HS Credit, 3 WITCC Credits) S2		
		9G14B/CON 258 Wall Coverings and Coatings (1 HS Credit, 1.5 WITCC Credits) S2		
Science, Technology, Engineering & Math	Engineering Design	9655/EGT 400 Introduction to Engineering Design PLTW (2 HS Credits, 3 WITCC Credits) S1 & S2	High Schools	Architect, Engineer, CAD Design, Drafting, Quality Technician,
	Engineering Design Student Selects one of the three courses	9629/EGT 416 Civil Engineering & Architecture PLTW (2 HS) S1 & S2	ESC	
		9660/EGT 420 Digital Electronics PLTW (2 HS Credits, 3 WITCC Credits) S1 & S2		
		9028 Engineering Design & Development PLTW (2 HS Credits) S1 & S2		

Engineering, Project Lead the Way, & Industrial Technology Career Clusters Continued

Career Cluster	Pathway	Courses & Credit	Location	Professions
Law, Public Safety, Corrections & Security	Police Science	8603/CRJ 100 Introduction to Criminal Justice (1 HS Credit, 3 WITCC Credits) S1	High Schools	Police Officer, Correctional Officer, Probation/Parole Officer, Forensics Investigator,
		8609/CRJ 101 Ethics & Criminal Justice (1 HS Credit, 3 WITCC Credits) S2		
	Fire Science	8608/CRJ 120 Introductions to Corrections (1 HS Credit, 3 WITCC Credits) S1	ESC	
		7607/EMS 114 Emergency Responders (1 HS Credit, 2 WITCC Credits) S2		
	Fire Science	9655/FIR 213 Principles of Emergency Services (2 HS Credits, 3 WITCC Credits) S1	WITCC	Firefighter, EMT
		9666/FIR 124 Building Construction for Fire Protection (2 HS Credits, 3 WITCC Credits) S2		
9G56/FIR 140 Firefighter I (2 HS Credit, 2 WITCC Credits) S1		WITCC		
9G57/FIR 141 Firefighter II (1 HS Credit, 2 WITCC Credits) S2				
7607/EMS 114 Emergency Responders (1 HS Credit, 2 WITCC Credits) S2	ESC			
Transportation, Distribution, & Logistics	Auto Body	9000 Industrial Arts Technology (2 HS Credits) S1 & S2	Harry Hopkins	Fleet Manager, Auto or Auto Body Mechanic
		9022 Power Mechanics (2 HS Credit) S1 & S2	Harry Hopkins	
		9015 Auto Body I (2 HS Credit) S1 & S2	Harry Hopkins	
		9025 Auto Body Repair II (2 HS Credits) S1 & S2	Harry Hopkins	
	Auto Tech	9000 Industrial Arts Technology (2 HS Credits) S1 & S2	Harry Hopkins	Vehicle Systems Technician
		9022 Power Mechanics (2 HS Credit) S1 & S2	Harry Hopkins	
		9030 Intro to Automotive Technology (2 HS Credit) S1 & S2	Harry Hopkins	

Business & Marketing Career Clusters

Career Cluster	Pathway	Courses & Credit	Location	Professions
Arts, Audio/ Video Technology & Communications	Graphic Design	B606/GRA 201 Design Principles I (1 HS Credit, 3 WITCC Credit) S1 B607/GRA 325 Digital Color Theory (1 HS Credit, 3 WITCC) S2	High Schools	Graphic Designer, Video or Web Producer, Artist, Website Designer
		9658/ART 186 Digital Photography (1 HS Credit, 3 WITCC Credits) S1 B608/GRA 233 Web Page Coding (1 HS Credit, 3 WITCC) S2	High Schools	
Business Management & Administration & Finance	Business Management & Administration OR Entrepreneurship/Small Business Development	B004 Financial Literacy (2 HS Credits) S1 & S2 B001 Accounting I (2 HS Credits, Articulated with WITCC) S1 & S2 (meets district Math requirement) B006 Business & Personal Law (1 HS Credit) S1 B007 Sales & Marketing (1 HS Credit) S2 B018 Business Entrepreneurship (2 HS Credits) S1 & S2	High Schools	Customer Service Representative, Executive Assistant , Accountant
	Accounting & Finance	B004 Financial Literacy (2 HS Credits) S1 & S2 B001 Accounting I (2 HS Credits, Articulated with WITCC) S1 & S2 (meets district Math requirement) B020 Accounting II (2 HS Credits, Articulated with WITCC) S1 & S2 B050 Accounting III (2 HS Credits) S1 & S2	High Schools	
	Dual Credit Course Options FOR Business Management & Administration OR Entrepreneurship/Small Business Development OR	B600/BUS 102 Intro to Business (1 HS Credit, 3 WITCC Credits) S1 B601/MGT 101 Principles of Management (1 HS Credit, 3 WITCC Credits) S2 B605/MKT 110 Principles of Marketing (1 HS Credit, 3 WITCC Credits) S1 B602/MGT 170 Human Resource Mgt (1 HS Credit, 3 WITCC Credits) S2	ESC	

Business & Marketing Career Clusters

Career Cluster	Pathway	Courses & Credit	Location	Professions
Business & Marketing	Marketing	B004 Financial Literacy (2 HS Credits) S1 & S2	High Schools	Advertising & Promotions Manager, Market Research Analyst, Event Planners, Marketing Manager & Specialist
		B014 Sports & Entertainment Management (1 HS Credit) S1	High Schools	
		B007 Sales & Marketing (1 HS Credit) S2		
		B606/GRA 201 Design Principles I (1 HS Credit, 3 WITCC Credit) S1	High Schools	
		B607/GRA 325 Digital Color Theory (1 HS Credit, 3 WITCC) S2		
		1008 Computer Yearbook & Applications (2 HS Credits) S1 & S2	High Schools	
	Dual Credit Course Options FOR Marketing	B018 Business Entrepreneurship (2 HS Credits) S1 & S2		
		B600/BUS 102 Intro to Business (1 HS Credit, 3 WITCC Credits) S1	ESC	
		B601/MGT 101 Principles of Management (1 HS Credit, 3 WITCC Credits) S2		
		B605/MKT 110 Principles of Marketing (1 HS Credit, 3 WITCC Credits) S1		
B602/MGT 170 Human Resource Mgt (1 HS Credit, 3 WITCC Credits) S2				
Information Technology	Network Systems	B029 Microsoft Office Suite/Certiport (2 HS Credits) S1 & S2	High Schools	Computer Systems Analyst, Information Security Analyst, Management Information Specialist , Software Developer, Web Developer, Computer Hardware Engineer
		B015 Video Game Design Foundations (1 HS Credits) S1 OR S2		
		9658/ART 186 Digital Photography (1 HS Credit, 3 WITCC Credits) S1	High Schools	
		B608/GRA 233 Web Page Coding (1 HS Credit, 3 WITCC) S2		
		9607/NET 161 IT Essentials PC Hardware & Software (2HS Credits, 4 WITCC Credits) S1	ESC	
		9608/NET 162 IT Essentials Advanced PC Hard & Software (2 HS Credits, 3 WITCC Credits) S2		
		X060 Internship (2 HS Credits) S1 & S2		
		9663/NET 155 Intro to Wireless Networks (1 HS Credit, 3 WITCC Credits) S1	ESC	
	9664/NET 520 Microsoft Workstation-MTCS (1HS Credit, 3 WITCC Credits) S2			
	X061 Internship (2 HS Credits) S1 & S2			
Computer Science	9010 Computer Science & Software Engineering PLTW (2 HS Credits) S1 & S2	ESC		
	9621/CIS 606 Visual Basic.Net (2 HS Credit, 3 WITCC Credits) S1 & S2			

Health Science Career Clusters

Career Cluster	Pathway	Courses & Credit	Location	Professions
Health Science	Certified Nurse Assistant	7615/HSC 109 Health Careers & Teams (1 HS Credit, 3 WITCC Credits) S1 7025 Health Careers & Teams II (1 HS Credit) S2	ESC	Certified Nurse Assistant
		7611/HSC 114 Medical Terminology (1 HS Credit, 3 WITCC Credits) S1 7612/HSC 111 Issues in Health & Society (1 HS Credit, 3 WITCC Credits) S2	ESC	
		7613/HSC 173 Nurse Aide Theory (1 HS Credit, 3 WITCC Credits) S1 7614/HSC 174 Nurse Aide Clinical (1 HS Credit, 1 WITCC Credit) S1 7608/HSC 178 Advanced Nurse Aide (2 HS Credit, 4 WITCC Credits) S2	ESC	
		7615/HSC 109 Health Careers & Teams (1 HS Credit, 3 WITCC Credits) S1 7025 Health Careers & Teams II (1 HS Credit) S2	ESC	
		7611/HSC 114 Medical Terminology (1 HS Credit, 3 WITCC Credits) S1 7612/HSC 111 Issues in Health & Society (1 HS Credit, 3 WITCC Credits) S2	ESC	
		7622/PHR 105 Intro to Pharmacy Technology (2 HS Credits, 3 WITCC Credits) S1 7609/PHR 120 Pharmacology for Pharmacy Technicians (1 HS Credit, 3 WITCC Credits) S2 7610/PHR 947 Pharmacy Technician Practicum (1 HS Credit, 1 WITCC Credit) S2	ESC	
	Pharmacy Tech	Pharmacy Technician	7615/HSC 109 Health Careers & Teams (1 HS Credit, 3 WITCC Credits) S1 7025 Health Careers & Teams II (1 HS Credit) S2	ESC
			7611/HSC 114 Medical Terminology (1 HS Credit, 3 WITCC Credits) S1 7612/HSC 111 Issues in Health & Society (1 HS Credit, 3 WITCC Credits) S2	ESC
			7622/PHR 105 Intro to Pharmacy Technology (2 HS Credits, 3 WITCC Credits) S1 7609/PHR 120 Pharmacology for Pharmacy Technicians (1 HS Credit, 3 WITCC Credits) S2 7610/PHR 947 Pharmacy Technician Practicum (1 HS Credit, 1 WITCC Credit) S2	ESC
	Surgical Tech	Surgical Technician	7611/HSC 114 Medical Terminology (1 HS Credit, 3 WITCC Credits) S1 7612/HSC 111 Issues in Health & Society (1 HS Credit, 3 WITCC Credits) S2	ESC
			7600/BIO 169 Human Anatomy & Physiology I (1 HS, 4 WITCC Credits) S1 7620/BIO 174 Human Anatomy & Physiology 2 (1 HS, 4 WITCC Credits) S2	High Schools
			7G22/SUR 123 Patient Care Concepts (4 HS Credits, 2 WITCC Credits) S1 7G23/SUR 127 Introduction to Surgical Technology (2 HS, 3 WITCC Credits) S2 7G24/SUR 420 Pharmacology for Surgical Technician (2 HS, 2 WITCC Credits) S2	WITCC

Family and Consumer Science Career Clusters

Career Cluster	Pathway	Courses & Credit	Location	Professions
Education & Training	Education & Para Educator	8600/EDU 210 Foundations of Education (1 HS Credit, 3 WITCC Credits) S1 8601/EDU 120 Communication, Ethics, and Confidentiality (1 HS Credit, 2 WITCC Credits) S2	High Schools	Para Educator, Teacher, Administrator, Instructional Assistant
		8604/EDU 122 Roles and Responsibilities (1 HS Credit, 2 WITCC Credits) S1 8605/EDU 121 Behavior Improvement (1 HS Credit, 2 WITCC Credits) S2 Completing EDU 120 EDU 122 and EDU 121 will earn Para Educator Certificate.	ESC	
Human Services	Child Development Associate	4000 Individuals & Families (1 HS Credit) (Meets Health graduation requirement) S1 or S2	High Schools	Child Care Worker, Head Start Worker, Preschool Teacher, Director of Childcare Facility, Parent Educator
		4018 CDA Workplace Experience I (2 HS Credits, Articulated with WITCC) S1 & S2	High Schools	
		4020 CDA Workplace Experience II (2 HS Credits) CDA Certificate S1 & S2 X064 Internship (2 HS Credits) S1 & S2	High Schools	
Hospitality & Tourism	Culinary/ProStart	4021 Culinary Essentials (2 HS Credits) S1 & S2	High Schools	Restaurant, Food Service, Catering Owner, Operator or Manager, Chef, Hotel/Resort Manager
		4009 Food Science Technology (2 HS Credits) (Meets Science graduation requirement) S1 & S2 or Chemistry	High Schools	
		4022 ProStart 1 (Hospitality and Food Industries) (2 HS Credits, Articulated with DMACC) S1 & S2	East and West	
		4023 ProStart 2 (2 HS Credit, Articulated with DMACC) S1 & S2 X065 Internship (2 HS Credits) S1 & S2 ProStart and ServSafe Certification	East and West	

Family and Consumer Science Career Clusters

Career Cluster	Pathway	Courses & Credit	Location	Professions
Visual Arts	Interior Design	4015 Sewing Technology Basics (1 HS Credit) S1	High Schools	Interior Designer, Home Furnishings Coordinator
		4016 Design Studio (1 HS Credit) S2		
		2640 /ART 101 Art Appreciation (1 HS Credit, 3 WITCC Credits) S1	High Schools	
		4027 Interior Design Studio (1 HS Credit) S2		
		B600/BUS 102 Introduction to Business (1 HS Credit, 3 WITCC Credits) S1	ESC	
B601/MKT 101 Principles of Management (1 HS Credit, 3 WITCC Credits) S2				
Visual Arts	Fashion Design	4015 Sewing Technology Basics (1 HS Credit) S1	High Schools	Fashion Designer, Design Illustrator, Textiles Designer
		4016 Design Studio (1 HS Credit) S2	North High	
		4024 Applied Sewing Technology & Textiles (2 HS Credits) S1 & S2		
		2640/ART 101 Art Appreciation (1 HS Credit, 3 WITCC Credits) S1	High Schools	
		4017 Fashion Analysis I (1HS Credit) S2	North High	
		B604/MKT 125 Applied Marketing (1 HS Credit, 3 WITCC Credits) S1	High Schools	
4028 Fashion Analysis II (2 HS Credit) S1 & S2	North High			