



Johnson High School



Career and Technical Education Electives 2024-2025

To earn a CTE Pathway: A Student completing and passing three or more CTE courses for a total of four or more credits within a program of study.
Student must pass an Industry Based Certification (IBC)

Business & Industry Endorsement


Architectural Design Pathway

Level	Course #	Course Name	Grades	Credit
1	H6647	Principles of Architecture	9-12	1.0
2	H8245	Architectural Design I (Prerequisite: Principles of Architecture)	9-12	1.0
3	H8246	Architectural Design II (Prerequisite: Architectural Design I)	10-12	2.0
4	H6745/H8310	Career Preparation I/Extended Career Preparation I (10/15 hrs. Work week)	11-12	2.0/3.0
4	H6746/H8311	Career Preparation II/Extended Career Preparation II (10/15 hrs. Work week)	12	2.0/3.0

 Certification earned: Autodesk Associate User IBC / Entrepreneurship & Small Business IBC

Digital Communications Pathway

Level	Course #	Course Name	Grades	Credit
1	M3020	Principles of Arts, A/V, & Communication (Offered at Hill & Tejeda)	8	1.0
1	H6656	Principles of Arts, A/V, & Communication	9-12	1.0
2	H6731	Audio/Video Production I (Prerequisite: Princ. of A/V)	9-12	1.0
3	H6742	Audio/Video Production II w/ Lab (Prerequisite: A/V Prod. I)	10-12	2.0
4	H6761	Practicum in Audio/Video Production (Prerequisite: AV Prod II or AV Prod II lab)	11-12	2.0
4	H6745/H8310	Career Preparation I/Extended Career Preparation I (10/15 hrs. Work week)	11-12	2.0/3.0
4	H6746/H8311	Career Preparation II/Extended Career Preparation II (10/15 hrs. Work week)	12	2.0/3.0

 Certification earned: Adobe Certified Professional IBC / Entrepreneurship & Small Business IBC


Graphic Design & Interactive Media Pathway

Level	Course #	Course Name	Grades	Credit
1	M3020	Principles of Arts, A/V, & Communication (Offered at Hill, & Tejeda)	8	1.0
1	H6656	Principles of Arts, A/V, & Communication	9-12	1.0
2	H6711	Animation I (Prerequisite: Prin. of A/V)	10-12	1.0
2	H8015	Fashion Design I (Prerequisite: Principles of Arts, A/V Technology)	10-12	1.0
3	H6749	Fashion Design II W/ Lab (Prerequisite: Fashion Design I, Must be taken concurrently W/ Fashion Design II. May not be taken as a stand alone course.)	11-12	2.0
3	H6713	Animation II (Prerequisite: Animation I)	11-12	1.0
4	H8312	Practicum in Entrepreneurship (Prerequisite: Completion of at least two courses in a CTE program of study.)	11-12	2.0
4	H6745/H8310	Career Preparation I/Extended Career Preparation I (10/15 hrs. Work week)	11-12	2.0/3.0
4	H6746/H8311	Career Preparation II/Extended Career Preparation II (10/15 hrs. Work week)	12	2.0/3.0





 Certification earned: Adobe Certified Professional IBC / Entrepreneurship & Small Business IBC

Accounting & Finance Services Pathway

Level	Course #	Course Name	Grades	Credit
1	H8290	Principles of Business, Marketing & Finance	9-12	1.0
1	H8291	Business Info. Management I	9-12	1.0
2	H8301	Accounting I (Prerequisite: Prin. of BMF)	10-12	1.0
2	H8291	Banking & Financial Services (Prerequisite: Prin. of BMF)	10-12	0.5
3	H8302	Accounting II (Prerequisite: Acct. I) (Math credit)	11-12	1.0
4	H6745/H8310	Career Preparation I/Extended Career Preparation I (10/15 hrs. Work week)	11-12	2.0/3.0
4	H6746/H8311	Career Preparation II/Extended Career Preparation II (10/15 hrs. Work week)	12	2.0/3.0




 Certification earned: Intuit Quickbooks Certified User IBC, Volunteer Income Tax Assistance/Tax, Counseling IBC /

Business Management Pathway

Level	Course #	Course Name	Grades	Credit
	1 H8290	Principles of Business, Marketing & Finance	9-12	1.0
	1 H8291	Business Info. Management I	9-12	1.0
	2 H8292	Business Info. Management II (Prerequisite: BIM I)	10-12	1.0
	3 H8294	Business Management (Prerequisite: Prin. of BMF)	11-12	1.0
	4 H6745/H8310	Career Preparation I/Extended Career Preparation I (10/15 hrs. Work week)	11-12	2.0/3.0
	4 H6746/H8311	Career Preparation II/Extended Career Preparation II (10/15 hrs. Work week)	12	2.0/3.0

Certification earned: Microsoft Office Expert Excel, Word IBC /
Entrepreneurship & Small Business IBC


Marketing & Sales Pathway

Level	Course #	Course Name	Grades	Credit
	1 H8290	Principles of Business, Marketing & Finance	9-12	1.0
	2 H8304	Sports & Entertainment Marketing I (Prerequisite: Prin. of BMF)	9-12	0.5
	2 H8014	Fashion Marketing (Prerequisite: Prin. of BMF)	9-12	0.5
	3 H8313	Sports & Entertainment Marketing II (Prerequisite: Prin. of BMF)	9-12	0.5
	3 H8700	Fundamentals of Real Estate (Prerequisite: Prin. of BIM & ONE Full year credit of a Level 2 or Level 3 Course)	11-12	2.0
	3 H6769	Social Media Marketing (Prerequisite: Prin. of BMF)	9-12	0.5
	4 H6745/H8310	Career Preparation I/Extended Career Preparation I (10/15 hrs. Work week)	11-12	2.0/3.0
	4 H6746/H8311	Career Preparation II/Extended Career Preparation II (10/15 hrs. Work week)	12	2.0/3.0

Certification earned: Stukent Social Media Marketing IBC / Entrepreneurship & Small Business IBC


Public Service Endorsement

Diagnostic & Therapeutic Services Pathway

Level	Course #	Course Name	Grades	Credit
	1 H8340	Principles of Health Sciences	9-12	1.0
	2 H6757	Medical Terminology (Prerequisites: Prin. of Health Science)	9-12	1.0
	3 H3253	Anatomy & Physiology (Science credit) (Prerequisites: one credit in Biology, and one credit in Chemistry,IPC, or Physics.) (Recommended: One credit from the Health Sci. Pathway.)	10-12	1.0
	3 H8344	Health Science Theory (Prerequisites: Biology, & at least one credit in a course from the Health Sci. career cluster.)	10-12	1.0
	3 H6758	Medical Microbiology (Prerequisites: Biology, Chemistry & at least one credit in a course from the Health Sci. career cluster.	10-12	1.0
	3 H8346	Health Science Clinical (Prerequisites: Principles of Health Science, Medical Terminology, Biology, and Health Science Theory.)	11-12	2.0

Certification earned: Phlebotomy Technician IBC





Nursing Science Pathway

Level	Course #	Course Name	Grades	Credit
	1 H8340	Principles of Health Sciences	9-12	1.0
	2 H6757	Medical Terminology (Prerequisites: Prin. of Health Science)	9-12	1.0
	3 H3253	Anatomy & Physiology (Science credit) (Prerequisites: one credit in Biology, and one credit in Chemistry,IPC, or Physics.)	10-12	1.0
	3 H8344	Health Science Theory (Prerequisites: Biology, & at least one credit in a course from the Health Sci. career cluster.)	10-12	1.0
	3 H6758	Medical Microbiology (Prerequisites: Biology, Chemistry & at least one credit in a course from the Health Sci. career cluster.	10-12	1.0
	3 H8346	Health Science Clinical (Prerequisites: Principles of Health Science, Medical Terminology, Biology, and Health Science Theory.)	11-12	2.0

Certification earned: Phlebotomy Technician IBC




Teaching & Training Pathway

Level	Course #	Course Name	Grades	Credit
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	1	M3045	Principles of Education & Training (Offered at Tejada)	7-8	1.0
	1	M3016	Principles of Human Services (Offered at Hill, & Tejada)	7-8	1.0
	1	H6721	Principles of Human Services	9-12	1.0
	2	H6764	Child Development (Prerequisite: Prin. of Human Serv. Or Educ. & Training)	9-12	1.0
	3	H8084	Ready, Set, Teach I (Prerequisite: Prin. of Human Serv. Or Educ. & Training)	11-12	2.0
	4	H8043	Ready, Set, Teach II (Prerequisite: RST I)	12	2.0
	4	H6745/H8310	Career Preparation I/Extended Career Preparation I (10/15 hrs. Work week)	11-12	2.0/3.0
	4	H6746/H8311	Career Preparation II/Extended Career Preparation II (10/15 hrs. Work week)	12	2.0/3.0




Certification earned: Pre-Professional Certification in Early Childhood Education IBC, Education Aide Level 1 IBC / Entrepreneurship & Small Business IBC

Family & Community Services Pathway

Level	Course #	Course Name	Grades	Credit	
1	M3016	Principles of Human Services (Offered at Hill, & Tejada)	7-8	1.0	
1	H6721	Principles of Human Services	9-12	1.0	
1	H8025	Dollars & Sense (Prerequisite: Prin. of Human Serv.)	11-12	0.5	
2	H8029	Lifetime Nutrition & Wellness (Prerequisite: Prin. of Human Service, Prin. of Health Sci.)	9-12	0.5	
	2	H6764	Child Development (Prerequisite: Prin. of Human Serv. Or Educ. & Training)	9-12	1.0
	3	H8345	Counseling & Mental Health (Prerequisite: Prin. of Human Serv.)	11-12	1.0
	4	H6745/H8310	Career Preparation I/Extended Career Preparation I (10/15 hrs. Work week)	11-12	2.0/3.0
	4	H6746/H8311	Career Preparation II/Extended Career Preparation II (10/15 hrs. Work week)	12	2.0/3.0




Certification earned: Pre-Professional Certification in Early Childhood Education IBC / Entrepreneurship & Small Business IBC

Health and Wellness Pathway

Level	Course #	Course Name	Grades	Credit
	1 M3016	Principles of Human Services (Offered at Hill, & Tejada)	7-8	1.0
	1 H6721	Principles of Human Services	9-12	1.0
	1 H8025	Dollars & Sense (Prerequisite: Prin. of Human Serv.)	11-12	0.5
	2 H8029	Lifetime Nutrition & Wellness (Prerequisite: Prin. of Human Service, Prin. of Health Sci.)	9-12	0.5
	2 H6764	Child Development (Prerequisite: Prin. of Human Serv. Or Educ. & Training)	9-12	1.0
	3 H8345	Counseling & Mental Health (Prerequisite: Prin. of Human Serv.)	11-12	1.0
	4 H6745/H8310	Career Preparation I/Extended Career Preparation I (10/15 hrs. Work week)	11-12	2.0/3.0
	4 H6746/H8311	Career Preparation II/Extended Career Preparation II (10/15 hrs. Work week)	12	2.0/3.0

Certification earned: Pre-Professional Certification in Early Childhood Education IBC / Entrepreneurship & Small Business IBC

Law Enforcement Pathway



Level	Course #	Course Name	Grades	Credit
	1 H8410	Principles of Law, Public Safety, Corrections, & Security	9-12	1.0
	2 H8413	Law Enforcement I (Prerequisite: Prin. of Law)	10-12	1.0
	3 H8418	Law Enforcement II (Prerequisite: Law Enforcement I)	11-12	1.0
	4 H8414	Forensic Science (Science Credit) (Prerequisites: Biology, Chemistry,IPC, or Physics.)	11-12	1.0
	4 H6745/H8310	Career Preparation I/Extended Career Preparation I (10/15 hrs. Work week)	11-12	2.0/3.0
	4 H6746/H8311	Career Preparation II/Extended Career Preparation II (10/15 hrs. Work week)	12	2.0/3.0


Certification earned: Emergency Telecommunicator IBC

Engineering and Information Technology Endorsement





Engineering Foundations Pathway


Level	Course #	Course Name	Grades	Credit
1	M3019	Principles of Applied Engineering (Offered at Hill, & Tejada)	7-8	1.0
1	M3047	Robotics I (Offered at Hill)	7-8	1.0

1	H8250	Principles of Applied Engineering	9-12	1.0
	3 H8252	Engineering Design & Presentation I (Prerequisite: Prin of Applied Engineering , Algebra I)	10-12	1.0
	4 H8253	Engineering Design & Presentation II (Prerequisites: Engineering Design & Presentation I, Algebra I, Geometry)	11-12	2.0

 Certification earned: Autodesk Associate Certified User IBC

Programming & Software Development

Level	Course #	Course Name	Grades	Credit
1	M3025	Fundamentals of Computer Science (Offered at Hill, & Tejada)	7-8	1.0
	2 H3005	Computer Science I - Honors (Prerequisite: Algebra I)	9-12	1.0
	3 H3006	Computer Science II-Honors (Prerequisite: Algebra I, Comp. Sci. I, or AP Computer Sci. Prin.)	10-12	1.0
	2 H3007	AP Computer Science Principles (Prerequisite: Algebra I)	9-12	1.0
	3 H3010	AP Computer Science A (Prerequisite: Algebra I)	10-12	1.0
	4 H6745/H8310	Career Preparation I/Extended Career Preparation I (10/15 hrs. Work week)	11-12	2.0/3.0
	4 H6746/H8311	Career Preparation II/Extended Career Preparation II (10/15 hrs. Work week)	12	2.0/3.0

 Certification earned: PCEP - Certified Entry-Level Python Programmer; Information Technology Specialist - JAVA / Entrepreneurship & Small Business IBC





CTEC

Career and Technical Education Center







Electrical Pathway

Level	Course #	Course Name	Grades	Credit
	1 H6763Cx	Principles of Construction (Sem. 1)	9-12	1.0
	1 H8154x	Electrical Technology I (Sem. 2)	9-12	1.0
	2 H8155x	Electrical Tech. II	10-12	2.0
	3 H8078x	Practicum in Construction Tech I	11-12	2.0
	4 H8166x	Practicum in Construction Tech II	12	2.0



 Certification earned: NCCER Core IBC


Carpentry Pathway

Level	Course #	Course Name	Grades	Credit
	1 H6763Cx	Principles of Construction (Sem. 1)	9-12	1.0
	1 H8243x	Construction Tech. I (Sem. 2)	9-12	2.0
	2 H8244x	Construction Tech. II	10-12	2.0
	3 H8078x	Practicum in Construction Tech I	11-12	2.0
	4 H8166x	Practicum in Construction Tech II	12	2.0


 Certification earned: NCCER Core IBC / NCEER Carpentry Level 1 IBC / NCCER Carpentry Level 2 IBC

HVAC Pathway

Level	Course #	Course Name	Grades	Credit
	1 H6763Cx	Principles of Construction (Sem. 1)	9-12	1.0
	1 H8249x	HVAC Technology I (Sem. 2)	9-12	1.0
	2 H8295x	HVAC Technology II	10-12	2.0
	3 H8078x	Practicum in Construction Tech I	11-12	2.0
	4 H8166x	Practicum in Construction Tech II	12	2.0

 Certification earned: NCCER Core IBC / Refrigerant Handling (EPA 608) IBC

Plumbing Pathway

Level	Course #	Course Name	Grades	Credit
	1 H6763Cx	Principles of Construction (Sem. 1)	9-12	1.0
	1 H8241x	Plumbing Technology I (Sem. 2)	9-12	1.0

2	H8242x	Plumbing Technology II	10-12	2.0
3	H8078x	Practicum in Construction Tech I	11-12	2.0
4	H8166x	Practicum in Construction Tech II	12	2.0



Certification earned: NCCER Core IBC

Welding Pathway

Level	Course #	Course Name	Grades	Credit
	1 H8173x	Introduction to Welding (Sem. 1)	9-12	1.0
	1 H8174x	Welding Technology I (Sem. 2)	9-12	2.0
	2 H8175x	Welding Technology II	10-12	2.0
	3 H8179x	Practicum in Welding I	11-12	2.0
	4 H8180x	Practicum in Welding II	12	2.0



Certification earned: NCCER Core IBC / AWS D1.1 Sheet Metal Welding IBC / AWS D9.1 Sheet Metal Welding IBC

Diagnostic & Therapeutic Services Pathway

Level	Course #	Course Name	Grades	Credit
	1 H8340	Principles of Health Science	9-12	1.0
	2 H6757	Medical Terminology (Prerequisites: Prin. of Health Science)	9-12	1.0
	3 H3253	Anatomy & Physiology (Science credit) (Prerequisites: one credit in Biology, and one credit in Chemistry, IPC, or Physics.) (Recommended: One credit from the Health Sci. Pathway.)	10-12	1.0
	3 H8392	Dental Anatomy & Physiology (Dental A) (Sem. 1)	11-12	1.0
	3 H8390	Dental Equipment & Proc. (Dental B) (Sem. 2)	12	1.0
	3 H8344	Health Science Theory (Prerequisites: Biology, & at least one credit in a course from the Health Sci. career cluster.)	10-12	1.0
	3 H8346	Health Science Clinicals	9-12	2.0
	3 H6758	Medical Microbiology (Prerequisites: Biology, Chemistry & at least one credit in a course from the Health Sci. career cluster.	10-12	1.0
	4 H8360	Certified Medical Assistant	11-12	2.0
	4 H8354	Emergency Medical Technician	12	2.0
	4 H6759	Pathophysiology (Science credit) (Prerequisites: Biology and Chemistry; And 1 credit in a Level 2 or higher from the Health Science career cluster)	11-12	2.0
	4 H3254	Pharmacy Technician	9-12	2.0



Certification earned: Registered Dental Asst. X-Ray IBC / Phlebotomy Technician IBC / Certified Clinical Medical Asst. IBC /

Emergency Medical Technician IBC / Pharmacy Technician IBC

Automotive & Collision Repair Pathway

Level	Course #	Course Name	Grades	Credit
	1 H8126x	Small Engine Technology I (Sem. 1)	9-12	1.0
	1 H7777x	Automotive Basics (Sem. 2)	9-12	1.0
	2 H8112x	Automotive Technology I	10-12	2.0
	3 H8113x	Automotive Technology II	11-12	2.0
	4 H8114x	Practicum in Transportation Systems	12	2.0



Certification earned: ASE Refrigerant Recovery & Recycling IBC / ASE Entry Level-Auto Maintenance & Light Repair IBC

Diesel, Heavy Equipment Maintenance, & Commercial Drivers Pathway

Level	Course #	Course Name	Grades	Credit
	1 H8190x	Occupational Safety & Environmental Tech I (Sem. 1)	9-12	1.0
	1 H6734x	Principles of Transportation Systems (Sem. 2)	9-12	1.0
	2 H6774x	Diesel Technology I	10-12	2.0
	3 H6775x	Diesel Technology II	11-12	2.0
	4 H8114x	Practicum in Transportation Systems	12	2.0



Certification earned: ASE Refrigerant Recovery & Recycling IBC / ASE Entry Level-Medium/Heavy, Diesel Engines IBC







iCSI

Institute of Cybersecurity



Institute of Cybersecurity & Innovation Pathway

Level	Course #	Course Name	Grades	Credit
	1 H6658	Computer Maintenance (Cyber 1A)	9-12	1.0
	1 H6766	Principles of Cybersecurity (Cyber 1B)	9-12	1.0
	2 H6756	Networking with Lab (Cyber 2)	10-12	2.0
	3 H6794	Cybersecurity Capstone (Cyber 3A)	11-12	2.0
	3 H6785	Adv. Cloud Computing (Cyber 3B)	12	2.0
	4 H6698	Practicum in Information Tech (Cyber 4)	12	2.0

 Certification earned: Comp TIA IT Fundamentals IBC / Comp TIA Networking + IBC / Comp TIA Security + IBC / Cisco 200-201 CBROPS IBC