



# Churchill High School








## Career and Technical Education Electives 2025-2026

**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 and Passing an Industry Base Certification (IBC)






### Business & Industry Endorsement


#### Digital Communications Pathway

Level	Course #	Course Name	Grades	Credit
	1 M3020	Principles of Arts, A/V, & Communication (Offered at Bradley, Eisenhower, & Jackson)	7-8	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 H6741	Audio/Video Production II (Prerequisite: A/V Prod. I)	10-12	1.0
	3 H6742	Audio/Video Production II with lab (Prerequisite: A/V Prod. I; A/V Prod II Lab must be taken with A/V Prod II)	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 Bradley, Eisenhower, & Jackson)	7-8	1.0
	1 H6656	Principles of Arts, A/V, & Communication	9-12	1.0
	1 H6700	Video Game Design (Prerequisite: Princ. of A/V)	9-12	1.0
	2 H6711	Animation I (Prerequisite: Prin. of A/V)	10-12	1.0
	2 H6732	Commercial Photography I (Prerequisite: Prin. of A/V)	9-12	1.0
	2 H3024	Digital Design & Media Production (Prerequisite: Princ. of A/V)	9-12	1.0
	3 H6713	Animation II (Prerequisite: Animation I)	11-12	1.0
	3 H6714	Animation II with Lab (Prerequisite: Animation I) (Corequisite: Animation II. Animation II Lab must be taken concurrently with Animation II & may not be taken as a stand alone course.)	11-12	2.0
	3 H6735	Commercial Photography II (Prerequisite: Comm. Photo 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: 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 Information Management I	9-12	1.0
	2 H8301	Accounting I (Prerequisite: Prin. of BMF)	10-12	1.0
	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 / Entrepreneurship & Small Business IBC

#### Business Management Pathway

Level	Course #	Course Name	Grades	Credit
	1 H8290	Principles of Business, Marketing & Finance	9-10	1.0
	1 H8291	Business Information Management I	9-12	1.0
	2 H8288	Virtual Business (Prerequisite: Prin. of BMF)	10-12	0.5
	2 H8292	Business Information Management II (Prerequisite: BIM I)	10-12	1.0
	2 H8308	Entrepreneurship I (Prerequisite: Prin. of BMF)	10-12	1.0
	3 H8294	Business Management (Prerequisite: Prin. of BMF, and BIM 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: Microsoft Office Expert Excel, Word IBC; General Management IBC, Entrepreneurship & Small Business IBC

### Entrepreneurship Pathway

Level	Course #	Course Name	Grades	Credit
	1 H8290	Principles of Business, Marketing & Finance	9-10	1.0
	1 H8291	Business Information Management I	9-12	1.0
	2 H8308	Entrepreneurship I (Prerequisite: Prin. of BMF)	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: Entrepreneurship and 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 H8288	Virtual Business (Prerequisite: Prin. of BMF)	10-12	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

### Real Estate Pathway


Level	Course #	Course Name	Grades	Credit
	1 H8290	Principles of Business, Marketing & Finance	9-12	1.0
	2 H8308	Entrepreneurship I	10-12	1.0
	3 H8700	Fundamentals of Real Estate (Prerequisite: Prin. of BMF & any Level 2 Course in the Real Estate Pathway)	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: 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.)	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 H8346	Health Science Clinical (Prerequisites: Principles of Health Science, Medical Terminology, Biology, and Health Science Theory.)	11-12	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
	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



Certification earned: Phlebotomy Technician IBC






### Teaching & Training Pathway

Level	Course #	Course Name	Grades	Credit
	1 M3016	Principles of Human Services (Offered at Bradley & Eisenhower)	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)	10-12	1.0
	3 H8084	Ready, Set, Teach I (Prerequisite: Prin. of Human Serv. Or Educ. & Training)	11-12	2.0
	3 H8084D	Dual Credit: 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






### Early Learning Pathway

Level	Course #	Course Name	Grades	Credit
	1 M3016	Principles of Human Services (Offered at Bradley & Eisenhower)	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)	10-12	1.0
	3 H6765	Child Guidance (Prerequisite: Prin. of Human Serv., and Child Development)	10-12	2.0
	4 H8046	Practicum in Early Learning (Prerequisite: Child Guidance)	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 / Early Childhood Education & Care-Basic IBC / Entrepreneurship & Small Business IBC


### Family & Community Services Pathway

Level	Course #	Course Name	Grades	Credit
	1 M3016	Principles of Human Services (Offered at Bradley & Eisenhower)	7-8	1.0
	1 H6721	Principles of Human Services	9-12	1.0
	2 H8025	Dollars & Sense (Prerequisite: Prin. of Human Serv.)	11-12	0.5
	2 H6764	Child Development (Prerequisite: Prin. of Human Serv. Or Educ. & Training)	10-12	1.0
	2 H8029	Lifetime Nutrition & Wellness (Prerequisite: Prin. of Human Serv. or Princ. of Health Science)	9-12	0.5
	2 H8308	Entrepreneurship I (Prerequisite: Prin. of BMF)	10-12	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 / Community Health Worker IBC / Entrepreneurship & Small Business IBC

### Lodging and Resort Management



Level	Course #	Course Name	Grades	Credit
	1 HTBD	Principles of Hospitality and Tourism	9-12	1.0
	1 H8290	Principles of Business, Marketing, and Finance	9-12	1.0
	2 H8308	Entrepreneurship I (Prerequisite: Prin. of BMF)	10-12	1.0
	3 H8294	Business Management (Prerequisite: Prin. of BMF & BIM 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



Entrepreneurship & Small Business IBC

## Engineering and Information Technology Endorsement





### Engineering Foundations Pathway

Level	Course #	Course Name	Grades	Credit
	1 M3019	Principles of Applied Engineering (Offered at Bradley, Eisenhower, & Jackson)	7-8	1.0
	1 H8250	Principles of Applied Engineering	9-12	1.0
	2 M3047	Robotics I (Offered at Eisenhower, & Jackson)	7-8	1.0
	2 H8094	Robotics I (Prerequisites: Prin. of Applied Engineering.)	9-10	1.0
	3 H8252	Engineering Design & Presentation I (Prerequisite: Prin of Applied Engineering , Algebra I )	10-12	1.0
	4 H8258	Engineering Design & Problem Solving (Prerequisites: Algebra I, Geometry, and at least one credit in a Level 2 or higher in the Career Cluster.)	11-12	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 / Autodesk Associate Certified User Inventor IBC

### Programming & Software Development from STEM Pathway

Level	Course #	Course Name	Grades	Credit
	1 M3025	Fundamentals of Computer Science (Offered at Bradley, & Jackson)	8	1.0
	1 H3032	Fundamentals of Computer Science	9-12	1.0
	2 H3005	Computer Science I - Honors (Prerequisite: Algebra I)	9-12	1.0
	3 H3010	AP Computer Science A (Prerequisite: Algebra I) Math & LOTE credit	10-12	1.0
	3 H3006	Computer Science II-Honors (Prerequisite: Algebra I, Comp. Sci. I, or AP Computer Sci. Prin.)	10-12	1.0
	4 H3027	Computer Science III-Honors (Prerequisite: Comp. Sci. II, AP Comp. A)	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: PCEP - Certified Entry-Level Python Programmer; Information Technology Specialist - JAVA /

Entrepreneurship & Small Business IBC

### Science Credit

Level	Course #	Course Name	Grades	Credit
	4 H8414	Forensic Science (Prerequisite: Biology & Chemistry)	11-12	1.0




# 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 / NCCER 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