

**Career Tech Education (CTE)**  
**Hardin Valley Academy**  
**2021-2022 Course Offerings**

**Advanced Manufacturing (Byington)**

Electromechanical Technology (Pathway at Byington)		
592200000	NIC Principles of Manufacturing	9,10,11
609100000	NIC Introduction to Electromechanical^	10,11,12
609000000	NIC Advanced Electromechanical Tech^	10,11,12
592600000	Manufacturing Practicum**	11,12
Welding (Pathway at Byington)		
592200000	NIC Principles of Manufacturing	9,10,11
607800000	NIC Welding I^	10,11,12
603300000	NIC Welding II^ (2 block)	11,12
592600000	Manufacturing Practicum**	12
Agriculture, Food and Natural Resources (Byington)		
Food Science (Pathway at Byington)		
595700000	NIC Agriscience	9,10,11
611800000	Principles of Food Production^	10,11,12
611500000	NIC Food Science and Safety^	10,11,12
Environmental and Natural Resource Management (Pathway at Byington)		
595700000	NIC Agriscience	9,10,11
611400000	Applied Environmental Science	10,11,12
595000000	Plant and Soil Science	10,11,12
611700000	Natural Resource Management	11,12
Architecture & Construction (Byington/HVA)		
Architecture (Pathway at HVA)		
603700000	Architectural and Engineering Design I	9,10
603900000	Architectural and Engineering Design II	10,11
592700000	NIC Architectural and Engineering Design III	11,12
TBD	Architectural Design Practicum or Dual Enrollment	12
Structural Systems (Pathway at Byington)		
592200000	NIC Fundamentals of Construction	9,10,11
616400000	NIC Structural Systems I^	10,11,12
616000000	Construction Practicum**	11,12
Mechanical Electrical & Plumbing Systems (Pathway at Byington)		
607300000	NIC Fundamentals of Construction	9,10,11
607500000	NIC Electrical Systems^	10,11,12
607700000	NIC HVAC^	10,11,12
608200000	NIC Plumbing Systems^	10,11,12
616000000	Construction Practicum**	11,12
Arts, Audio/Visual Technology, & Communication (Byington)		
Audio/Visual Production (Pathway at Karns/Byington)		
604900100	AV Production I (Radio)	9,10,11
605000100	AV Production II^ (Radio)	10,11,12
608300100	AV Production III^ (Radio)	10,11,12
615800000	Applied Arts Practicum	11,12
Digital Art and Design (Pathway at HVA)		
608400000	Digital Arts and Design I	9
608600000	Digital Arts and Design II	9,10
608700000	Digital Arts and Design III	10,11,12
TBD	Dual Enrollment Digital Arts and Design	12
Business Management & Administration (HVA)		
Business Management (Pathway at HVA)		
590500000	Introduction to Business & Marketing	9,10,11
588800000	Business Communications^	10,11,12
588900000	NIC Business Management	10,11,12
593400000	Practicum/DE or WBL	10,11,12
Health Services Administration (Pathway at HVA)		
599800000	Health Science Education	9,10
599700000	Health Information Technology	10,11
588900000	Business Management/SDC Intro to Business	10,11,12
TBD	Health Services Administration Practicum	12
TBD	Dual Enrollment Health Service Administration	12
Education and Training (HVA and Byington)		
Teaching as a Profession K-12 (Pathway at HVA)		
612300000	Fundamentals of Education	9,10
601000000	Teaching as a Profession I (TAP I)^	10,11,12
612500000	Teaching as a Profession II (TAP II)^	10,11,12
612600000	Teaching as a Profession III (TAP III)^ with Dual Enrollment	11,12

**Health Science (HVA)**

Therapeutic Medicine (Pathway at HVA)		
599800000	Health Science Education	9,10
325103000	Anatomy/Physiology^	10,11
613300000	NIC Pharmacological Science	11,12
599300000	Clinical Internship	12
TBD	Dual Enrollment	12
Sport and Human Performance (Pathway at HVA)		
599800000	Health Science Education	9,10
599000000	NIC Rehab Careers	10,11
599000007	NIC Rehab Careers 7AM	10,11
325103000	Anatomy/Physiology	10,11
617000000	NIC Exercise Science	11,12
599300000	Clinical Internship	12
Diagnostic Services (Pathway at HVA)		
599800000	Health Science Education	9,10
599400000	Diagnostic Medicine	10,11
599400007	Diagnostic Medicine 7AM	10,11
325103000	Anatomy and Physiology^	11,12
613100000	Cardiovascular Services & Clinical Internship** (2 block) (application)	12
Nursing Services (Pathway at HVA)		
599800000	Health Science Education	9,10,11
599900000	NIC Medical Therapeutics^	10,11,12
599900007	NIC Medical Therapeutics^ (7AM)	10,11,12
325103000	Anatomy/Physiology^	11,12
600000000 and 599300000	NIC Nursing Education and Clinical Internship** (2 block) (application)	12
Hospitality & Tourism		
593300000	Hospitality & Tourism Management 1	9,10,11
Human Services (HVA and Byington)		
Human and Social Sciences (Pathway at HVA)		
613700000	Introduction to Human Studies	9,10
601300000	Lifespan Development^	10,11,12
613600000	NIC Family Studies^	10,11,12
410800000	DE Social Health Sciences	12
Cosmetology (Pathway at Byington)		
598300000	Cosmetology I (1 block)	9,10
598600000	Cosmetology II ^ (2 blocks)	10,11,12
598400000	Cosmetology III ^ (2 blocks)	11,12
610500000	WBL**	12
Information Technology (HVA)		
Coding (Pathway at HVA)		
609500000	NIC Computer Science Foundations	9,10
609800000	Coding I^	9,10,11,12
609900000	NIC Coding II^	10,11,12
590800000	Coding Practicum^	11,12
363405000	AP Computer Science Principles^ (Fall only)	9,10,11,12
363505000	AP Computer Science A**	11,12
Cybersecurity (Pathway at HVA)		
609500000	NIC Computer Science Foundations	9,10,11
617500000	NIC Cybersecurity I^	10,11
617600000	NIC Cybersecurity II^	11,12
363405000	AP Computer Science Principles^ (Fall only)	9,10,11,12
363505000	AP Computer Science A**	11,12
619100000	Dual Enrollment Cybersecurity	12
Law, Public Safety, Corrections, & Security (HVA and Byington)		
Criminal Justice and Correction Services (Pathway at HVA)		
598700000	Criminal Justice I	9,10
598800000	Criminal Justice II^	10,11
598900000	Criminal Justice III^	10,11,12
C15H210DC	SDC Criminal Justice III	11,12
TBD	Criminal Justice Practicum, WBL or Dual Enrollment	12
Fire Management Services (Pathway at Byington)		
615400000	Principles of Fire and Emergency Services	9,10,11
615200000	Fire Science I^	10,11
615300000	Fire Science II^	11,12

Early Childhood Education Careers (Pathway at Byington)		
601500000	Early Childhood Education Careers I	9,10
601600000	Early Childhood Education Careers II^	10,11,12
601700000	Early Childhood Education Careers III^	10,11,12
613500000	NIC Early Childhood Education Careers IV^	11,12
Finance (HVA)		
Accounting (Pathway at HVA)		
590500000	Introduction to Business and Marketing	9,10,11
591000000	Accounting 1^	10,11,12
591100000	Accounting 2^	11,12
Banking and Finance (Pathway at HVA)		
590500000	Introduction to Business and Marketing	9,10,11
589900000	Banking and Finance^	10,11,12
593400000	Entrepreneurship, Practicum, DE or WBL	11,12

Please see the most up to date program of study options for 2020-21 school year on the State of Tennessee CTE website.  
 Course sequence/pre-requisite requirements and Industry certification information can be found at the following link:  
[https://www.tn.gov/content/dam/tn/education/cte/202122\\_CourseandProgramofStudyMatrix\\_Nov2020b.pdf](https://www.tn.gov/content/dam/tn/education/cte/202122_CourseandProgramofStudyMatrix_Nov2020b.pdf)

Pre-Law (Pathway at HVA)		
619500000	Pre-Law I	9,10
619600000	Pre-Law II	10,11
Marketing, Distribution & Logistics (HVA)		
Marketing Management (Pathway at HVA)		
590500000	Introduction to Business and Marketing	9,10,11
593100000	Marketing I^	10,11
C12H4600	Social Media Marketing & Analytics^	11,12
616800000	Event Planning^	11,12
610500000	WBL - Work Based Learning^*	11,12
Supply Chain Management (Pathway at HVA)		
590500000	Introduction to Business and Marketing	9,10,11
619800000	Foundations of Supply Chain Management^	10,11,12
619900000	Supply Chain Management	11,12
TBD	Dual Enrollment/WBL/Entrepreneurship	12
STEM (HVA)		
Engineering (Pathway at HVA)		
592400000	NIC Principles of Engineering and Technology	9,10
592400000	Engineering Design I^	10,11,12
614000000	NIC Engineering Design II^	10,11,12
614000007	NIC Engineering Design II^ (7am)	10,11,12
323805000 or 323405100	AP Physics^ (non CTE completes EF)	11,12
Diesel (Byington)		
4133CTEDE	Diesel Technology (2 block class at Byington)	11,12

**COURSE CRITERIA**

- \* Courses that require recommendation from teacher
- ^ Courses that have a pre-requisite
- \*\* Courses that have pre-requisite and require a recommendation from a teacher application/audition - courses that require audition or application