

HFM CTE PROGRAMS OF STUDY LEARNING CHARACTERISTICS

AUTO BODY

Curriculum and materials used:

 Auto Collision Repair and Refinishing (Goodheart-Wilcox)

Text reading level:

• 10th grade

Recommendations to take prior to enrollment or concurrently at home district:

• Basic math (fractions decimals)

Testing/Certification:

- · Auto Collision Repair and Refinishing (Goodheart-Wilcox)
- NOCTI exam
- Precision exam
- Technical endorsement

Technical skills needed/developed:

- Basic computer skills
- Welding MIG & STRSW
- Metal fabrication
- · Auto body repair
- · Auto body refinishing
- · Paint mixing and color matching
- Appraisal costs
- Repair costs
- How to use adhesives and fillers



Professional skills needed/developed:

- · Instrinsic motivation
- · Time management
- Strong work ethic
- Organization
- Communication
- Problem solving/troubleshooting
- Critical thinking Follow safety procedures and
- instructions · Reliability/dependability

- · Work boots, long pants, and shirts with sleeves
- Safety glasses (provided by CTE)
- · Any other specific PPE required for safely working in and around the

Curriculum and materials used:

- · Automotive Technology: A Systems Approach
- · Introduction to Automotive Technology - CDX Learning
- Identifix and All-Data

Dress Code:

- Work boots, long pants, and shirts
 Reliability/dependability with sleeves
- safely working in and around the

Recommendations to take prior to enrollment or concurrently at home district:

Pass English 10

Testing/Certification:

- ASE Student Certification • Valvoline Oil Change Certification
- · Hunter Tire Machine, Balancer and **Alignment Certification**
- Snap-On Scan Tools
- Precision exams
- · Technical endorsement

AUTOMOTIVE TECHNOLOGY

Professional skills needed/developed:

- Ability to communicate
- Follow safety procedures and instructions
- Intrinsic motivation Strong work ethic
- · Work independtly
- · Collaborate with others Critical thinking
- Problem solvina/troubleshootina
- Time management

Safety glasses (provided by CTE) Technical skills needed/developed:

- technical manuals, schematics, flow charts, and wiring diagrams Understand and verbalize industry
- specific language Computer skills including typing,
- information literacy, and record keepina Fine motor skills and spatial
- awareness
- · Ability to regularly lift and handle 50+ pounds

Text reading level:

· 12th grade+

CONSTRUCTION

Curriculum and materials used:

 Modern Carpentry 13th Edition (Hardcover and E book)

Recommendation to take prior to enrollment or concurrently at home district:

Pass Algebra I

- Construction Math: measurement layout, geometry, formulas, equations, estimate materials,
- Dimensioning
- · Computer Skills: Google Classroom, Google Drive, Google
- Development of eye/hand coordination
- Ability to successfully use a project
- Understand the phases of construction
- · Technical endorsement

Professional skills

Technical skills needed/developed:

- estimate labor
- Read construction drawinas/blueprints

- variety of tools and machines to process materials for a building

Testing/Certification: OSHA 10 Safety Certification

- Precision exams

needed/developed:

- Responsibility
- Self-awareness
- Life-long learning Problem solving
- Discipline/Work Ethic · Collaborate with others
- Time management
- · Follow safety procedures and instructions
- · Reliability/dependability

Hard hats (provided by CTE)

Dress Code:

- · Work boots, long pants, and shirts with sleeves Safety glasses (provided by CTE)
- · Any other specific PPE required for safely working in and around the
 - Blow drving · Hair care

Text reading level:

9th grade



COSMETOLOGY

Curriculum and materials used:

• Milady Standard Cosmetology Cengage Learning

Technical skills needed/developed:

• Hair styling (formal and informal)

· Black/white shoes - top of foot

· Black polo or black button up

must be completely covered (NYS

- . Milady Theory & Practical Workbooks Pivot Point

Text reading level: 12th grade

Business

Perming

Dress Code:

· Permanent waving

Client consultation

Manicure/pedicure

rules/regulations)

· Black dress pants

collared shirt

· Chemical treatments

Sanitation and hygiene

• Business management

Recommendations to take prior to needed/developed: enrollment or concurrently at home

- district: Personal hygiene • Pass: Algebra I, Health, English 10, Accepts constructive feedback Biology, Chemistry
 - · Effective communication
 - · Work independently

Time management

- Organization · Attention to detail
- · Follow safety procedures and
- · Reliability/dependability

- Nocti exams
- · Technical endorsement
- · NYS Cosmetology Licensure Examination
- 1,000 hours over a two-year period to be eligible for the

hours for liscensing.*

CRIMINAL JUSTICE

Curriculum and materials used:

- Introduction to Criminal Justice 9th Edition · NYS Penal Law, NYS Vehicle and
- Traffic Law, NYS Criminal Procedure Law, US Constitution
- FEMA Independent Study Courses
- · Federal Court of Appeals Publications (website) · US Supreme Court Case
- Publications (website) Community partner

presentations Text reading level:

12th+

Recommendations to take prior to enrollment or concurrently at home district:

- Sociology/Psychology • Forensic Science
- · Pass Physical Education Testing/Certification: NYS Pre-Assignment Security Guard
- Red Cross First Aid/CPR/AED NYS Opiate Overdose training
- Stop the Bleed Training FEMA/NIMS
- Precision exams · Technical endorsement
- · School appropriate-daily · Business casual-industry visits



Technical skills needed/developed:

- Ticketing
- Traffic stops
- Crime scene processing
- Fingerprinting • Evidence identification · Application of law
- Corrections standards Case studies

Professional skills needed/developed:

- Keen observation/attention to detail · Time management
- · Critical thinking & problem solving · Active listening & learning
- · Team & leadership · Written & verbal communication
- · Follow safety procedures and instructions · Reliability/dependability

- Handcuffing Business
 - needed/developed: Critical thinking

ServSafe

- Communication
- · Personal hygiene · Time management
- Follow safety procedures and instructions
- Precision exam · Qualtars/ProStart certification · Technical endorsement

CULINARY ARTS

Curriculum and materials used:

- Prostart NY State Knife skills
- Recommendations to take prior to
- enrollment or concurrently at home · Algebra I - (fractions, decimals,

• The Culinary Professional

- conversions) · Family and Consumer Science
- Professional skills
- Problem solving and troubleshooting
- Team & leadership skills
- Multitaskina skills Reliability/dependability
- Testing/Certification: Servsafe certification
- Text reading level: • 10th grade

nail polish

Technical skills needed/developed:

- · Cooking and baking basics · Sanitation and food safety · Kitchen accident prevention and
- response
- Fire safety and risk management Proper equipment usage · Dining room service
- Customer relations

Dress Code:

· No jewelry, piercings, long nails,

- Chef uniform (provided by CTE) Safety shoes-non skid
- Hair pulled back (tucked in hat)





Curriculum and materials used: Year 1:

- (CompTIA) Testout PC Pro · Cisco Introduction to Cybersecurity
- Programming Essentials in Python
- Year 2: (CompTIA) CertMaster Learn Network+ · Cisco Cybersecurity Essentials

• TestOut Network Pro Exam-Year 2

• Programming Essentials in Python Testing/Certification: TestOut PC Pro Exam-Year 1

· Technical endorsement

Dress Code:

· School appropriate

Recommendations to take prior to enrollment or concurrently at home district:

- · Algebra I (fractions, decimals, conversions) Basic computer skills
- Technical skills needed/developed: Fundamentals of computer hardware and software

Linux

CYBERSECURITY AND COMPUTER TECHNOLOGY

- Typing skills Security and networking
- IT support · Installation and configuration of PCs

Configure common features such

as network connectivity and email

for Android and Apple iOS mobile

operating systems. **Professional skills**

- needed/developed: • Time management Communication
- · Attention to detail Critical thinking Troubleshooting
- Organization · Ability to process and implement verbal and written instructions · Willingness to learn from and
- accept feedback Reliability/dependability

Text reading level: • 12th+ grade

- · Mac Computer Lab DSLR Cameras

· Professional arade studio

district:

Recommendations to take prior to

- Pass English 10 · Computer Science
- needed/developed: · Time management

Professional skills

- · Attention to detail · Intrinsic motivation
- · Critical thinking · Reliability/dependability

- instructions Testing/Certification:
- *Hourly Requirement: Verified

*Attendance is crucial to meet the

DIGITAL MULTIMEDIA

- Curriculum and materials used: · Adobe Creative Suite (Photoshop/Illustrator & Premiere
- · Professional grade camcorders

equipment

- enrollment or concurrently at home
 - Graphic design Animation

Dress Code:



- · Compositional eye Creative writing · Audio mixing and recording • Use various software technologies

• TV and radio production

as tools for visual expression Website design Utilize special effects

· School appropriate



- Pro)
- Wacom Tablets

Text reading level: • 11th-12th grade

- Art/Graphic Design class
 - Movie industry studies
- · Work independently Team work
- Testina/Certification:
- Adobe Certification Exam
- Precision exams · Technical endorsement

Technical skills needed/developed:



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ENVIRONMENTAL CONSERVATION

Recommendation to take prior to enrollment or concurrently at home district:

• Algebra I - (fractions

Curriculum and materials used:

- New York Logger Training Forestry Ecology & Silviculture
- 10 OSHA Training

decimals)

- · Best Management Practices for Water Ouality
- NYS Department of Environmental Conservation web resources
- · Land surveying and laser leveling
- Heavy equipment operation and maintenance

Testing/Certification:

- NOCTI Forest Products and Processing
- NCCER Heavy Equipment Operations chainsaw NYS Game of Logging Chainsaw
- Training Level 1
- Technical endorsement
- · OSHA certification

Dress Code:

- Work boots, long pants, and shirts with sleeves
- Safety alasses (provided by CTE) · Any other specific PPE required for safely working in and around the
- Hard hats (provided by CTE)
- · Appropriate clothing for all weather conditions including rain. snow, and wind

Professional skills needed/developed:

- · Effective communication
- Collaborate with others · Time management
- Problem solve and troubleshoot
- · Be respectful of others and their property
- Reliability and dependability
- · Follow safety procedures and instructions

Technical skills needed/developed:

- · Sharpen, adjust, and handle a
- · Tree scaling and identification Compass use and pacing to calculate acreage
- · Hand-eye coordination especially during equipment operation
- Heavy equipment operation & maintenance
- Read and comprehend technical manuals
- Use of surveying equipment for elevation, horizontal, and anale measurements

Recommendations to take prior to

enrollment or concurrently at home

Pass Biology/Living Environment,

Algebra, and Chemistry regents

American Heart Association Basic Life

Support/First Aid/AED Certification

Narcan Administration Certification

· Hospital physical, and immunization

Text reading level:

9th-10th Grade

requirements

Testing/Certification:

• Stop the Bleed

Black medical scrubs

Application Requirements:

· Cumulative GPA of 85+

Admissions essay

· Student ID badge assigned at

· 2 letters of recommendation

· Interview with the instructor

Dress Code:

NEW VISIONS HEALTHCARE

Technical skills needed/developed:

- Knowledge of biology, chemistry and life sciences · Knowledge of medical terms and
- abbreviations Medical ethics, pharmacology.
- Anatomy and Physiology · CapStone Research Project culminating in a professional

community presentation

- On site at Nathan Littauer Hospital in Gloversville 4 days a week
- · Wednesdays at CTE for College level English and 12th Grade PIG/ECO

Professional skills needed/developed:

- · Critical thinking skills related to medical field, observation, reasoning & judgment
- Confidentiality
- · Independence and maturity in professional health care setting
- Good communication with patient start of school year and health care team, hospital personnel and medical professionals.
- Time management
- Organization
- · Follow safety procedures and instructions

Curriculum and Materials used

- The Culinary Professional
 - ServSafe Essentials Text reading level:

- Differentiated texts per students' abilities Dress Code
- · Closed toe shoes
- Hair pulled back (tucked in hat) · No nail polish or jewelry
- · Uniform provided by CTE (hat, apron, pants, chef coat)

Testing/Certification:

· 2 Year Completer certificate

FIRE SCIENCE

Curriculum and materials used:

· Principles of Electric Circuits

• Algebra I - 75% or higher on

· Work both independently and

Reliability & dependability

· Proactive work practices

· Foundational skills and

· School appropriate-daily

· Business casual-industry visits

· Follow safety procedures and

Regents exam

Technology courses

Pass Algebra II

Professional skills

needed/developed:

collaboratively

Problem solve and

• Time management

troubleshoot

Organization

instructions

knowledae

Dress Code:

district:

• Introduction to Digital Electronics

Recommendations to take prior to

enrollment or concurrently at home

• Beef U Online - program certificate

FOUNDATIONS OF FOOD

Professional skills needed/developed: · Healthy personal hygiene

- · Communication skills
- · Time management
- Organization
- Follow directions and expectations · Follow safety procedures and instructions
- · Stay on task
- · Ability to work independently and in a group setting

Technical skills needed/developed:

- Basic math and science skills for following and converting recipes How to measure ingredients
- Cooking and baking basics
- Knife skills
- · Safety skills

Curriculum and Materials used

· Essentials of Firefighting

Certificate (OFPC BEFO)

Text reading level:

ROBOTICS AND ENGINEERING TECHNOLOGY

• 10th to 12th grade

Testing/Certification:

- · Work force preparation
- · Sanitation and cleaning
- · Understanding the food service industry
- · Identifying ingredients

Basic Exterior Firefighting Operations

First-Aid, Narcan, CPR, Stop the Bleed

Technical skills needed/developed:

· Collect, organize, and analyze

electromechanical systems

analysis and components

· Implementation of PLCs, HMIs,

· Use instrumentation (DMM,

· Understand and use basic circuit

Oscilloscope, function generator,

relays, input and function blocks

• Up to 14 college credits available

data to draw conclusions

Work with industrial

Testing/Certification:

· Technical endorsement

· Precision exams

Text reading level:

· 10th grade

MEDICAL ASSISTING

Curriculum and materials used:

- Edition
- Illness 7th Edition Medical Terminology 350, 2nd
- Edition

Recommendations to take prior to enrollment or concurrently at home district:

- Pass Biology/Living Environment.
- Pass Algebra I
- Chemistry

Technical skills needed/developed:

- Manual dexterity Phlebotomy
- ECG
- Medical terminology
- Administrative practices & procedures
- Anatomy & Physiology
- · Laboratory and diagnostic procedures
- First Aid/CPR
- · Pharmacology and administering medication

Text reading level:

10th-12th grade+

School appropriate-daily

Closed-toe shoes

Technical skills needed:

· Business casual-industry visits

as instructed by Mr. Demars

· Student must be able to lift 50 lbs

· Fire apparatus and attire is provided by

· Safety PPE provided by CTE will be needed

CTE to be used in the lab setting

Dress Code:

Professional skills needed/developed:

- Organization and critical thinking • The Human Body and Health and • Effective written and verbal
 - communication skills
 - Accept constructive criticism and guidance
 - Maintain confidentiality
 - Follow safety procedures and instructions

Testing/Certification:

- NOCTI exam
- · CHP Certification for Clinical Medical Assistant
- · Stop the Bleed
- Narcan Administration Certification

Clinical Requirements:

- · Hospital dress code: no visible tattoos, no facial piercinas, hair must be of a natural color, and no artificial nails
- · Uniform which is the student's responsibility to purchase:
- Scrub pants and top, closed shoes/sneakers in white, gray or black
- Physical, immunization record, Flu vaccine, Tuberculosis Screen

Professional skills needed/developed:

- · Effective communication
- Time management
- Be respectful of others and their
- instructions

Collaborate with others

- Problem solve and troubleshoot
- property Reliability and dependability
- Follow safety procedures and

SKILLED TRADES

Curriculum and materials used:

Solar and Alternative Energy

Technical skills needed/developed:

Electrical panel/circuit/wiring

Residential Plumbing

Electrical Residential

· Occupational safety

and measurement

OSHA 10 hr certificate

• First Aid/CPR certificate

Testing/Certification:

coordination

Dexterity and hand/eve

HVAC

Heating

Ventilation

Plumbing

Solderina

Recommendation to take prior to enrollment or concurrently at home

Pass Algebra

district:

Text reading level:

• 10th-11th grade

• Skilled Trades courses

Professional skills needed/developed in program:

- Leadership
- · Independent work · Collaborate with others
- · Follow safety procedures and instructions
- · Problem solve and troubleshoot · Time management
- Organization
- · Reliability and dependability
- (attendance is crucial) Dress Code:

· Work boots, long pants, and shirts

- with sleeves · Safety glasses (provided by CTE)
- · Any other specific PPE required for safely working in and around the
- Hard hat (provided by CTE)

NEW VISIONS EDUCATION

Curriculum and materials used:

- · The First Days of School
- The Classroom Management
- · How To Deal With Difficult Parents
- Foundations of Education

Text reading level:

• 11th+ grade

Recommendation to take prior to enrollment or concurrently at home **Dress Code:** district:

- · Pass English 11 Pass U.S. History

Technical skills needed/developed: · Create assessments and rubrics

- Attention to detail
- · Observational skills and note taking for off-site classroom observations
- · Develop and teach lessons · Research educational systems
- · Determine classroom management techniques
- · Best practices in the classroom · Theory and practice of professional ethics
- Next Gen Standards and NYS Learning Standards

Professional skills needed/developed:

- · Collaborate with others
- Public Speaking
- · Time Management
- Problem solve
- · Observe and make/take constructive feedback
- · Goal setting

- School appropriate in class
- Business casual for observations in the field

Testina/Certification:

• Up to 9 college credits available



VETERINARY & ANIMAL SCIENCE



Recommendations to take prior to enrollment or concurrently at Response (ECSI)

- home district: • Pass Living Environment Regents
- · Chemistry (if on a veterinary pathway)

Professional skills needed/developed:

- Multitask
- · Effective communication (oral and written)
- · Intrinsic motivation · Time management
- · Work independently and collaboraitively Organization Public speaking
- · Critical thinking · Ability to accept feedback

(attendance is crucial)

· Goal setting

- · Consistent daily attendance · Willingness to clean/sanitize
- animal facilities/barns · Follow safety procedures and instructions
- · Reliability and dependability

• 10th-12th grade

Curriculum and materials used:

- Veterinary Science 9-12: The Classroom Curriculum Veterinary Assisting Fundamentals and Applications textbook
- Modern Livestock & Poultry Production textbook An Illustrated Guide to Veterinary
- Medical Terminology textbook Pet Emergency First Aid/CPR/Disaster

Technical skills needed/developed:

- · Technical/formal lab writing skills · Ability to read/understand animal
- body language/behavior · Ability to lift up to 50lbs • Fine Motor Skills/Ability to
- restrain/handle small & large animals Medical Terminology Ability to process/implement verbal
- instructions around live animals Animal anatomy and physiology

· ECSI: Pet First Aid, CPR, and Disaster

Assess live animals · Dog grooming

Testing/Certification: · Precision Exams: Veterinary Assistant

· Technical endorsement **Dress Code:**

Scrubs, closed toe shoes, no facial

Response

piercings, no artificial nails, hair must be pulled back, barn boots,

Text reading level:

Relaibility & dependability