



# EARLY ENTRANCE & DUAL CREDIT



# Why early entrance?



Juniors and Seniors earn college credit while still in high school with potential of graduating simultaneously



Cost Savings - \$25.00 per credit hour



College and career readiness program available starting in the high school sophomore spring semester



College credit earned via:

- **DUAL CREDIT** courses identified by each high school (varies)
- **CONCURRENT ENROLLMENT:** College-level courses are taken online and/or on campus with WVNCC faculty

## SOPHOMORES

Sophomores begin the journey with an orientation course in the Spring semester.

This online course includes information on transitioning from high school to college processes. An emphasis is placed on skills for college success as well as WVNCC programs and related careers with first-hand information from professionals in their fields.

## JUNIORS

Juniors continue the journey by taking general education courses through WVNCC, building credits toward a Certificate or Associate degree program and/or for transferring to a four-year college in the future. Some courses are offered specifically for each county/high school. However, students may also take other WVNCC courses.

Students must meet the same eligibility as college students based on placement scores and course prerequisites.

## SENIORS

Seniors can be well on their way to completing a Certificate or Associate Degree at WVNCC. Seniors can take a combination of general education courses as well as some program courses.

Depending on the program, it's possible to complete high school and a college program simultaneously.

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# Pathways to a Certificate or Degree

Guided pathways are created to assist high school students to understand certificate and associate-degree program requirements and the pathway to earn credit for all courses required.

Guided pathways are divided among the four meta-major areas identified at West Virginia Northern Community College. Each program's pathway identifies courses required.

High school sophomores may begin their journey in their spring semester with an online orientation course covering college preparation and career exploration. Advisors will work with high school counselors to guide students in selecting a meta-major pathway to follow.

High school juniors and seniors continue their journey by taking a combination of dual credit, and college courses simultaneously.

The goal of the Guided Pathways is to provide suggested course scheduling for high school students to either (1) complete a Certificate program while still in high school and / or (2) to complete the first year of an Associate in Applied Science degree.

In addition to the Programs identified in this Early Entrance Guide, West Virginia Northern also has Associate in Science and Associate in Arts degrees for students interested in taking General Education course with plans to transfer on to 4-year institutions.

Please refer to the WVNCC College Catalog at [www.wvncc.edu](http://www.wvncc.edu) for more details.

Program curricula are subject to change.

## DUAL CREDIT PATHWAYS

### FREE COLLEGE CREDITS FOR QUALIFYING PROGRAMS

Dual Credit PATHWAYS are CTE programs for which there is an agreement between high schools or home schooled students, WVNCC, and the WV Department of Education to offer free college credit to high school students choosing certain CTE programs.

Tuition for any course within those programs for which a student will receive dual credit will be paid for by the state.

**Dual Credit Course** – A course that provides students both high school and college credit. Such a course must meet both the content standards for secondary course offering and the college course requirements.



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# ALLIED HEALTH:

## ADMINISTRATIVE MEDICAL ASSISTANT, C.A.S.

JUNIOR YEAR	
FALL SEMESTER	
ENG 101	College Composition I
AHS 103	Medical Terminology
BIO 114	Anatomy and Physiology I
SPRING SEMESTER	
MATH 109	Mathematics of Business and Finance
BIO 115	Anatomy and Physiology II
CIT 117	Microsoft Applications

SENIOR YEAR	
FALL SEMESTER	
AHS 108	Disease Process Applications
AHS 110	Medical Legal/Ethical Issues
AHS 102	Electronic Health Records
SPRING SEMESTER	
MAS 150	Introduction to Medical Administrative Procedures
MAS 153	Medical Insurance and Reimbursement Methodologies

SUMMER FOLLOWING GRADUATION	
MAS 125*	Basic Diagnostic and Procedural Coding
MAS 151*	Medical Financial Management

\* Classroom component may be involved

**Students completing the Administrative Medical Assistant, C.A.S. program qualify to apply for admission to the Clinical Medical Assisting, A.A.S. Degree program.**

## CLINICAL MEDICAL ASSISTANT, A.A.S.

FALL SEMESTER		SPRING SEMESTER	
MAS 201	Clinical Medical Assistant	MAS 210	Clinical Medical Assistant II
MAS 202	Clinical Medical Assistant Skills Lab	MAS 211	Clinical Medical Assistant Practicum
MAS 220	Medical Assisting Seminar I	MAS 221	Medical Assisting Seminar II
MATH 115	Math for Health Sciences	PSYC 208	Developmental Psychology
PSYC 105	Introduction to Psychology	SPCH 101	Interpersonal Communication
		OR	
		SPCH 105	Fundamentals of Speech Communication

# ALLIED HEALTH:

## MEDICAL BILLING AND CODING, C.A.S.

JUNIOR YEAR	
FALL SEMESTER	
ENG 101	College Composition I
AHS 103	Medical Terminology
BIO 114	Anatomy and Physiology I
SPRING SEMESTER	
MATH 115	Mathematics for Health Sciences
BIO 115	Anatomy and Physiology II
CIT 117	Microsoft Applications

SENIOR YEAR	
FALL SEMESTER	
AHS 108	Disease Process Applications
AHS 110	Medical Legal/Ethical Issues
AHS 102	Electronic Health Records
SPRING SEMESTER	
MBC 100	Revenue Cycle Management I
MBC 110	Physician and Hospital Coding

SUMMER FOLLOWING GRADUATION	
MBC 125	Revenue Cycle Management II
SPCH 105	Fundamentals of Speech Communication
OR	
SPCH 101	Interpersonal Communication

**Students completing the Medical Billing and Coding, C.A.S. program qualify to apply for admission to the Health Information Technology, A.A.S. Degree program.**

# HEALTH INFORMATION TECHNOLOGY, A.A.S.

FALL SEMESTER		SPRING SEMESTER	
HIT 100	Intro to Health Information Technology	HIT 240	Quality Mgmt/Performance Improvement
HIT 145	HIT Professional Practice Experience (PPE)	HIT 260	Advanced Medical Coding
HIT 150	Health Record Documentation	HIT 263	Health Information Technology Seminar
HIT 235	Intermediate Medical Coding	HIT 265	HIT Professional Practice Experience (PPE) II
MATH 210	Introduction to Statistics		Social Science Core Elective

# ALLIED HEALTH:



## PATIENT CARE TECHNICIAN, C.A.S.

JUNIOR YEAR	
FALL SEMESTER	
ENG 101	College Composition I
AHS 103	Medical Terminology
MATH 108	College Algebra
OR	
MATH 115	Mathematics for Health Sciences
SPRING SEMESTER	
SPCH 105	Fundamentals of Speech Communication (Elective suggestion)
PSYC 105	Introduction to Psychology (Elective suggestion)

SENIOR YEAR	
FALL SEMESTER	
PCT 101	Patient Care Tech I
BIO 114	Anatomy and Physiology I
SPRING SEMESTER	
BIO 115	Anatomy and Physiology II
PCT 151*	Patient Care Technician II

REMAINING COURSES (per program)	
<b>Patient Care Technician</b>	Student then ready to graduate from PCT Student can apply to other Allied Health programs or complete the PCT program

\*Courses taught in WVNCC Lab.

# ALLIED HEALTH: RADIOGRAPHY, A.A.S.

## JUNIOR YEAR

### FALL SEMESTER

ENG 101 College Composition I

MATH 108 College Algebra

OR

MATH 210 Introduction to Statistics

### SPRING SEMESTER

SPCH 101 Interpersonal Communication

OR

SPCH 105 Fundamentals of Speech Communication

PSYC 105 Introduction to Psychology

## SENIOR YEAR

### FALL SEMESTER

BIO 114 Anatomy and Physiology I

### SPRING SEMESTER

BIO 115 Anatomy and Physiology II

Upon completion of the above core courses, the student is prepared to apply to the Radiography, A.A.S. program for the fall semester.

## YEAR 1 RADIOGRAPHY PROGRAM

### FALL SEMESTER

RAD 100 Introduction to Radiography

RAD 105 Radiography I

RAD 110 Radiation Protection/Radiobiology I

RAD 120 Radiography Procedures I

RAD 115 Clinical Fundamentals I

### SPRING SEMESTER

RAD 125 Clinical Practice I

RAD 155 Radiography II

RAD 160 Radiation Protection/Radiobiology II

RAD 165 Clinical Fundamentals II

RAD 170 Radiography Procedures II

### SUMMER SEMESTER

RAD 175 Clinical Practice II

## YEAR 2 RADIOGRAPHY PROGRAM

### FALL SEMESTER

RAD 195 Clinical Practice III

RAD 205 Radiography III

RAD 210 Advanced Imaging Modalities

RAD 215 Clinical Fundamentals III

RAD 220 Radiography Procedures III

### SPRING SEMESTER

RAD 225 Clinical Practice IV

RAD 255 Radiography IV

RAD 260 Radiography Career Prep

RAD 265 Clinical Fundamentals IV

RAD 270 Radiography Procedures IV

# ALLIED HEALTH:

## REGISTERED NURSING, A.A.S.

JUNIOR YEAR	
FALL SEMESTER	
ENG 101	College Composition I
AHS 103	Medical Terminology (suggested, not required)
SPRING SEMESTER	
HS	Humanities Elective
PSYC 105	Introduction to Psychology
ART 150	Art Appreciation (Elective suggestion)

SENIOR YEAR	
FALL SEMESTER	
BIO 114	Anatomy and Physiology I
SPRING SEMESTER	
BIO 115	Anatomy and Physiology II

Upon completion of the above core courses, the student is prepared to apply for admission to the Registered Nursing, A.A.S. program for the fall semester.

NOTE: If the student is not accepted into the Registered Nursing Program, it is recommended to continue in the Patient Care Technician program and reapply to Nursing the following year

FIRST YEAR REGISTERED NURSING			
FALL SEMESTER		SPRING SEMESTER	
NURS 132	Drug and Dosage Calculations	NUR 112	Clinical Applications in Nursing Practice
NURS 133	Health Assessment and Diagnostics	NUR 142	Drug and Dosage Calculations II
NURS 134	Introduction to Nursing Concepts	NUR 144	Nursing Concepts of Health and Illness

SECOND YEAR REGISTERED NURSING			
FALL SEMESTER		SPRING SEMESTER	
NURS 234	Nursing Concepts of Health and Illness II	NUR 244	Synthesis of Nursing Concepts
		NUR 245	Professional Nursing and Health Systems Concepts



# ALLIED HEALTH:

## SURGICAL TECHNOLOGY, A.A.S.

JUNIOR YEAR	
FALL SEMESTER	
ENG 101	College Composition I
MATH 115	Mathematics for Health Sciences
SPRING SEMESTER	
SPCH 105	Fundamentals of Speech Communication
OR	
SPCH 101	Interpersonal Communications
PSYC 105	Introduction to Psychology

SENIOR YEAR	
FALL SEMESTER	
AHS 103	Medical Terminology
BIO 114	Anatomy and Physiology I
SPRING SEMESTER	
BIO 115	Anatomy and Physiology II

Upon completion of the above core courses, the student is prepared to apply to the Surgical Technology, A.A.S. program for the fall semester.

YEAR 1 SURGICAL TECHNOLOGY PROGRAM			
FALL SEMESTER		SPRING SEMESTER	
ST 105	Surgical Technology I	ST 125	Anesthesia/Pharmacology for the Surgical Technologist
ST 115	Clinical Practice I	ST 150	Surgical Technology II
		ST 155	Clinical Practice II

SUMMER SEMESTER	
ST 180	Clinical Experience

YEAR 2 SURGICAL TECHNOLOGY PROGRAM			
FALL SEMESTER		SPRING SEMESTER	
ST 200	Surgical Technology III	ST 250	Surgical Technology IV
ST 210	Clinical Practice III	ST 255	Clinical Practice IV
		ST 260	Surgical Technology Seminar

# COMPUTER INFORMATION TECHNOLOGY: MICROSOFT APPLICATIONS, A.A.S.

<b>JUNIOR YEAR</b>	
<b>FALL SEMESTER</b>	
ENG 101	College Composition I
CIT 105	Operating Systems
CIT 117	Microsoft Applications
<b>SPRING SEMESTER</b>	
CIT 107	Excel
CIT 159	Microsoft Publisher

<b>SENIOR YEAR</b>	
<b>FALL SEMESTER</b>	
CIT 120	Microsoft Word I
MATH 108	College Algebra
<b>SPRING SEMESTER</b>	
CIT 182	PowerPoint Presentations
CIT 245	Network Security Fundamentals

<b>SUMMER SEMESTER</b>	
PSYC 155	Human Relations
SPCH 105	Fundamentals of Speech Communication

<b>YEAR 2 - FALL SEMESTER</b>		<b>YEAR 2 - SPRING SEMESTER</b>	
CIT 111	Help Desk Concepts	CIT 112	Access
CIT 123	A+ Hardware Essentials	CIT 184	A+ Networking and Software
CIT 250	IT Analysis, Design, and Career Prep	CIT 207	Computer Applications Support
	Social Science Core Elective	CIT 220	Unix / Linux
		CIT 291	Internship and Certification

# COMPUTER INFORMATION TECHNOLOGY: CYBER SECURITY, A.A.S.

## JUNIOR YEAR

### FALL SEMESTER

ENG 101 College Composition I

CIT 101 Introduction to Cyber Security

CIT 117 Microsoft Applications

### SPRING SEMESTER

CIT 105 Operating Systems

CIT 184 A+ Networking and Software

CIT 187 HTML/CSS

## SENIOR YEAR

### FALL SEMESTER

CIT 106 Fundamentals of Hacking/IT Psychology and Security

CIT 241 Microsoft Network Administration

### SPRING SEMESTER

CIT 220 Unix / Linux

CIT 245 Network Security Fundamentals

## SUMMER SEMESTER

MATH 109 Mathematics of Business and Finance

PSYC 155 Human Relations

## YEAR 2 - FALL SEMESTER

CIT 142 Cisco I - Networking Fundamentals

CIT 235 Introduction to Cloud Computing

CIT 250 IT Analysis, Design, and Career Prep

SPCH 105 Fundamentals of Speech Communication

## YEAR 2 - SPRING SEMESTER

CIT 222 Ethical Protocols of Cyber Security

CIT 255 Tactical Perimeter Defense in Network Security

CIT 265 Virtualization Concepts

CIT 291 Internship and Certification

# COMPUTER INFORMATION TECHNOLOGY: SOFTWARE ENGINEERING, A.A.S.

## JUNIOR YEAR

### FALL SEMESTER

CIT 105	Operating Systems
CIT 117	Microsoft Applications
CIT 232	Introduction to Programming Logic

### SPRING SEMESTER

CIT 112	Access
CIT 176	Visual Basic Programming
CIT 187	HTML/CSS

## SENIOR YEAR

### FALL SEMESTER

ENG 101	College Composition I
SPCH 105	Fundamentals of Speech Communication

### SPRING SEMESTER

CIT 215	Client Side Scripting/JavaScript
MGT 253	Small Business Management
CIT 272	Object Oriented Programming/Data Structures

## SUMMER SEMESTER

MATH 108	College Algebra
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### YEAR 2 - FALL SEMESTER

### YEAR 2 - SPRING SEMESTER

CIT 205	Web Development Tools	CIT 220	Unix / Linux
CIT 237	Advanced Database Programming	CIT 227	Applied Programming
CIT 250	IT Analysis, Design and Career Prep	CIT 291	CIT Internship and Certification
CIT 253	Web Application Programming	PSYC 155	Human Relations

# CRIMINAL JUSTICE:



## CRIMINAL JUSTICE, A.A.S.

### JUNIOR YEAR

#### FALL SEMESTER

ENG 101 College Composition I

CIT 117 Microsoft Applications

MATH 108 College Algebra

OR

MATH 210 Introduction to Statistics

#### SPRING SEMESTER

ENG 102 College Composition II

CRJ 104 Introduction to Criminal Justice Systems

### SENIOR YEAR

#### FALL SEMESTER

BIO 110 Principles of Biology

SOC 125 Introduction to Sociology

#### SPRING SEMESTER

POLS 102 American National Government and Politics

CRJ 245 Introduction to Juvenile Justice System

### SUMMER SEMESTER

PSYC 105 Introduction to Psychology

SPCH 105 Fundamentals of Speech Communication

### YEAR 2 - FALL SEMESTER

CRJ 201 Introduction to Corrections

CRJ 220 Criminal Law

CRJ 225 Terrorism and Homeland Security

CRJ 276 Criminology

### YEAR 2 - SPRING SEMESTER

CRJ 221 Criminal Procedure

CRJ 235 Field Service

CRJ 251 Problems in Criminal Justice

2 Restricted Electives: Choose from: CRJ 110, CRJ 115, CRJ 205, CRJ 209, CRJ 246, CRJ 230



# EDUCATION & HUMAN SERVICES: HUMAN SERVICES, A.A.S.

## JUNIOR YEAR

### FALL SEMESTER

ENG 101 College Composition I

MATH 108 College Algebra

CIT 117 Microsoft Applications

### SPRING SEMESTER

SPCH 105 Fundamentals of Speech Communication

PSYC 105 Introduction to Psychology

## SENIOR YEAR

### FALL SEMESTER

BIO 110 Principles of Biology

PSYC 155 Human Relations

### SPRING SEMESTER

ENG 102 College Composition II

HS 100 Intro to Social Work & Human Services

## SUMMER SEMESTER

SOC 125 Introduction to Sociology

## REMAINING COURSES

### FALL SEMESTER

HS 101 Understanding Group Processes and Dynamics

HS 147 Understanding Human Diversity

HS 205 Human Services/EC Seminar

HS 210 Intro to Case Management & Counseling

PSYC 208 Developmental Psychology

### SPRING SEMESTER

HS 150 Intro to Substance Abuse

HS 200 Social Welfare Institutions

PSYC 200 Abnormal Psychology

HS 204 Human Services Field Experience

Choose 3 Credit Restricted Elective: Choose from: ART 256, CRJ 245, PSYC 210, PSYC 218, SS 207

# EDUCATION & HUMAN SERVICES: EARLY CHILDHOOD: CARE AND EDUCATION, A.A.S.



JUNIOR YEAR	
FALL SEMESTER	
ECCE 100	Foundations of Education
ENG 101	College Composition I
MATH 108	College Algebra
OR	
Math 210	Statistics
HIST 110	The US to 1865 (Elective suggestion)
OR	
HIST 111	The US Since 1865 (Elective suggestion)
CIT 117	Microsoft Applications
SPRING SEMESTER	
SPCH 101	Interpersonal Communication
OR	
SPCH 105	Fundamentals of Speech Communication
PSYC 105	Introduction to Psychology
PSYC 210	Child Development

SENIOR YEAR	
FALL SEMESTER	
BIO 110	Principles of Biology (Suggested Science)
SOC 125	Introduction to Sociology
PSYC 208	Developmental Psychology
SPRING SEMESTER	
ENG 102	College Composition II
OR	
ENG 115	Technical Writing
ECCE 212	Child, Family & Community

REMAINING COURSES			
FALL SEMESTER		SPRING SEMESTER	
ECCE 220	Language and Literacy	ART 256	Creative Expression in Art and Design
HS 147	Understanding Human Diversity	ECCE 204	Early Childhood Field Experience
ECCE 205	Early Childhood Seminar	PSYC 218	Exceptional Children
SOC 125	Intro to Sociology (Elective suggestion)	ECCE 214	Child Observation & Assessment
		ECCE 208	ECCE Field Experience

# BUSINESS:

## BUSINESS ADMINISTRATION: BUSINESS STUDIES, A.A.S.

JUNIOR YEAR	
FALL SEMESTER	
BA 100	Intro to Business
ENG 101	College Composition I
CIT 120	Microsoft Word I
OR	
CIT 117	Microsoft Applications
SPRING SEMESTER	
MATH 109	Mathematics of Business and Finance
OR	
Math 108	College Algebra
SPCH 105	Fundamentals of Speech Communication
ACC 122	Accounting I

SENIOR YEAR	
FALL SEMESTER	
PSYC 155	Human Relations
ECON 104	Macroeconomics
MGT 253	Small Business Management
SPRING SEMESTER	
MKT 230	Principals of Marketing
BA 240	Business Law I

REMAINING COURSES			
FALL SEMESTER		SPRING SEMESTER	
ECON 105	Principals of Microeconomics	ACC 123	Principals of Accounting II
CIT 107	Excel	ACC 222	Computerized Accounting
ACC 205	Cost & Managerial Accounting	BA 241	Business Law II
MGT 250	Principles of Management	BA 265	Business Communications
		BA 285	Accounting/Business Capstone

# BUSINESS:

## SMALL BUSINESS MANAGEMENT, C.A.S.

JUNIOR YEAR	
FALL SEMESTER	
ENG 101	College Composition I
BA 240	Business Law I
SPRING SEMESTER	
ACC 122	Accounting I
CIT 107	Excel
MATH 109	Mathematics of Business and Finance
MGT 253	Small Business Management

SENIOR YEAR	
FALL SEMESTER	
ECON 104	Macroeconomics
CIT 120	Microsoft Word I
SPRING SEMESTER	
MKT 230	Principals of Marketing
BA 265	Business Communications

REMAINING COURSES	
PROGRAM COMPLETE AS ABOVE	

# BUSINESS:



## ACCOUNTING/BUSINESS STUDIES, A.A.S.

JUNIOR YEAR	
FALL SEMESTER	
BA 100	Intro to Business
ENG 101	College Composition I
CIT 120	Microsoft Word I
OR	
CIT 117	Microsoft Applications
SPRING SEMESTER	
ACC 122	Accounting I
ECON 104	Macroeconomics
MATH 109	Mathematics of Business and Finance
OR	
Math 108	
ACC 122	Accounting I

SENIOR YEAR	
FALL SEMESTER	
SPCH 105	Fundamentals of Speech Communication
BA 240	Business Law I
MGT 250	Principles of Management
SPRING SEMESTER	
ACC 123	Accounting II
MGT 253	Small Business Management
BA 265	Business Communications

REMAINING COURSES			
FALL SEMESTER		SPRING SEMESTER	
CIT 107	Excel	ACC 222	Computerized Accounting
ACC 205	Cost & Managerial Accounting	ACC 225	Intermediate Accounting II
ACC 224	Intermediate Accounting I	ACC 240	Business Taxation
ECON 105	Principles of Microeconomics	ACC 250	Accounting Capstone
		BA 241	Business Law II



# CULINARY:

## CULINARY ARTS, C.A.S

### JUNIOR YEAR

#### FALL SEMESTER

ENG 101	College Composition I
MATH 108	College Algebra
CIT 117	Microsoft Applications
CART 121	Food Service Sanitation & Safety

### SENIOR YEAR

#### FALL SEMESTER

SOC 125	Introduction to Sociology (required if continuing into the AAS Degree Program)
SPCH 105	Fundamentals of Speech Communication

### REMAINING COURSES

FALL SEMESTER		SPRING SEMESTER	
CART 124	General Nutrition	CART 125	Essentials of Dining Services
CART 131	Bakeshop	CART 151	Meat, Poultry, Seafood Prep
CART 145	Elements of Commercial Food Preparation & Service	CART 175	Advanced Food Sciences
CART 159	Basic Food Science	NOTE: Students must take CART 251 Culinary Internship if planning to continue into the AAS program	

Upon completion of the above core courses, the student is prepared to continue into the Culinary Arts, A.A.S. program for the fall semester.

# CULINARY ARTS, A.A.S

### SECOND YEAR COURSES

FALL SEMESTER		SPRING SEMESTER	
CART 223	Personnel Supervision for Hospitality Industry	CART 231	Pasty Preparation
CART 235	American Cuisine	CART 241	Classical Cuisines
CART 240	Garde Manger	CART 245	Menu Purchasing and Cost Control
		CART 275	Senior Seminar

# APPLIED TECHNOLOGIES:

## INDUSTRIAL MAINTENANCE TECHNOLOGY, C.A.S.

### SUMMER AFTER SOPHOMORE YEAR - SESSION 1

ENG 101	College Composition I
APT 103*	Safety Hazards Recognition

### SUMMER AFTER SOPHOMORE YEAR - SESSION 2

APT 104*	Safety Applications
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### JUNIOR YEAR

#### FALL SEMESTER

APT 110	Introduction to Print Reading
RAH 100*	Basic Refrigeration I

#### SPRING SEMESTER

MATH 108	College Algebra
OR	
MATH 113	Technical Mathematics
APT 112*	Introduction to Welding

### SENIOR YEAR

#### FALL SEMESTER

HPE 110	First Aid & CPR
APT 150*	Hydraulic and Pneumatic Fundamentals

#### SPRING SEMESTER

MEC 120*	Motors and Motor Controls
MEC 232*	Pumps and Piping
APT 155*	Electrical and Electronic Fundamentals

\* Courses taught in Wheeling Campus Lab

# APPLIED TECHNOLOGIES:

## ENERGY TECHNOLOGY, C.A.S

JUNIOR YEAR	
FALL SEMESTER	
ENG 115	Technical Writing OR ENG 101 Composition I
SPCH 101	Interpersonal Communication (Required for AAS Program)
SPRING SEMESTER	
MATH 113	Technical Mathematics OR MATH 108
PSYC 155	Human Relations (Required for AAS Program)
SENIOR YEAR	
FALL SEMESTER	
APT 100	Introduction to Applied Technology
APT 110	Introduction to Print Reading
SPRING SEMESTER	
APT 155	Electrical & Electronic Fundamentals
PTRM 104*	Production Technology with Hands-On Lab
PTRM 150	Drilling/Completion Operations
PTRM 109*	Drilling Technology with Hands-On Lab
SUMMER SESSION 1	
APT 103*	Safety Hazards Recognition
CIT 117	Microsoft Applications
SUMMER SESSION 2	
APT 104*	Safety Applications
APT 150*	Hydraulics and Pneumatics Fundamentals

\* Courses taught in Wheeling Campus Lab

Complete the Energy Technology, A.A.S. Program after graduation:

## ENERGY TECHNOLOGY, A.A.S

REMAINING COURSES			
FALL SEMESTER		SPRING SEMESTER	
NRG 101	Energy Transition Tech & Application	PTRM 107	Rigging for Land-based Oil & Gas Operations
PTRM 206	Applied Chemistry for Petroleum with Hands-On Lab	PTRM 210	Introduction to Midstream Operations
PTRM 208	Artificial Lift with Hands-on Lab	PTRM 211	Well Controls with Hands-on Lab
PTRM 217	Petroleum Geology of Appalachia	PTRM 213	Gas Measurement with Hands-on Lab
OR			
MEC 115	Instrumentation I: Mechanical		
HPE 110	First Aid & CPR	PTRM 235	Petroleum Technology Seminar
		RAH 250	Alternative Energy Concepts

# APPLIED TECHNOLOGIES:

## REFRIGERATION, AIR CONDITIONING, AND HEATING TECHNOLOGY, A.A.S.

JUNIOR YEAR			
FALL SEMESTER			
SPCH 101	Interpersonal Communication		
CIT 117	Microsoft Applications		
PSYC 105	Introduction to Psychology		
OR			
PSYC 155	Human Relations		
OR			
SOC 125	Introduction to Sociology		
SPRING SEMESTER			
ENG 115	Technical Writing		
OR			
ENG 101	Composition		
MATH 101	Intermediate Algebra		
OR			
MATH 108	College Algebra		
OR			
MATH 109	Math of Business and Finance		
OR			
MATH 113	Tech Math		
SENIOR YEAR			
FALL SEMESTER	SPRING SEMESTER		
APT 104	Safety Applications	APT 112*	Introduction to Welding
		APT 155*	Electrical and Electronic Fundamentals
SUMMER SEMESTER			
MEC 120*	Motors and Motor Controls	RAH 100	Basic Refrigeration I
RAH 209*	Forced Air Systems / Duct Layout	RAH 110	HVACR Piping Skills
		RAH 102	Refrigeration Controls
		APT 103	Safety Hazard Recognition
REMAINING COURSES			
FALL SEMESTER		SPRING SEMESTER	
RAH 206*	Heating Systems I	HPE 110	CPR 1st Aid
RAH 220*	Hydronics	RAH 250*	Alternative Energy Concepts
RAH 207*	Heating Systems II	RAH 260*	Certification Preparation
RAH 235*	Comfort Cooling	RAH 265*	Commercial Refrigeration

\* Courses taught in Wheeling Campus Lab

# APPLIED TECHNOLOGIES:

## WELDING TECHNOLOGY, A.A.S.



### JUNIOR YEAR

#### FALL SEMESTER

WELD 101 Oxyacetylene Welding

CIT 117 Microsoft Applications

ENG 101 College Composition I

OR

ENG 115 Technical Writing

#### SPRING SEMESTER

WELD 102 Basic Shielded Metal Arc Welding

SPCH 105 Fundamentals of Speech Communication

### SENIOR YEAR

#### FALL SEMESTER

WELD 202 Beginning MIG

MATH 108 College Algebra

OR

MATH 113 Technical Mathematics

PSYC 155 Human Relations

#### SPRING SEMESTER

PTRM 107\* Rigging for Land-Based Oil and Gas Operations with Hands-On Lab

WELD 112 Advanced Shield Metal Arc Welding

WELD 206 Beginning TIG

### SUMMER SESSION 1

APT 103\* Safety Hazard Recognitions

APT 110 Intro to Print Reading

### REMAINING COURSES

#### FALL SEMESTER

APT 104 Safety Applications

WELD 204\* Advanced MIG

WELD 210\* Flux Core Welding

WELD 215\* Metallurgy

#### SPRING SEMESTER

HPE 110 First Aid & CPR

WELD 208\* Advanced TIG

WELD 220\* Layout Fabrication

WELD 225\* Downhill Pipe Welding





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WHEELING | WEIRTON | NEW MARTINSVILLE