

**Associate in Applied Science in General Technology
Agriscience Option
(EDGE/Cooperative Program with Career/Technical Centers)**

The Associate in Applied Science in General Technology: Agriscience Option is an EDGE/Collaborative program between WVSTC and Career/Technical Centers. Students who complete the Agriscience Program and transfer to WVSTC will be granted 22 credit hours toward the A.A.S. in General Technology: Agriscience Option upon completion of all courses in the Agriscience program and a passing score of 75% or above on the state exam.

Careers for Agriscience

The program prepares the graduates for employment and/or further on-the-job training in the field of basic agriscience and natural resources technology. Typical jobs for graduates of this program may include:

- Horticulture businesses
- Animal care facilities
- Aquaculture and hydroponics facilities

Program Learning Outcomes

Upon completion of this program the student will be able to:

1. Pursue careers in Agriscience.
2. Identify components of an aquaculture system.
3. Identify components of animal management.
4. Identify skills in forestry and related occupations.
5. Interpret horticulture of plant growth in the various environments.
6. Understand the management of animal care.

Curriculum/Suggested Sequence

(62-63 hours required for graduation) / (22 credits transferred from Career Centers)

FIRST SEMESTER

COLL 101	College	3
ENGL 101	English Composition I OR	
ENG 110	English Composition I	3
HUM 101	Introduction to Humanities	3
BST 106	Introduction to Business	3
BST 104	Business Mathematics	3
Elective	Restricted Elective	3
	Total Credits	18

SECOND SEMESTER

ENG 120	Technical Writing OR	
BST 230	Business Comm & Ethics	3
BST 106	Intro to Comp & Office Appl OR	
BST 240	Fund of Computer Business Tech	3
BST 298	Business Studies Seminar	1
Elective	Natural Science Elective	3-4
Elective	Social Science Elective	3
Elective	Restricted Elective	3
	Total Credits	16-17

SUMMER SEMESTER

Elective	Restricted Elective	6
	Total Credits	6

Restricted Electives: (Choose any four courses)

BST 151, 180, 201, 202, 205, 255, ITEC 101, 180, CS 109 CO-OP and other courses as approved by the Program Director

Natural Science Electives: (Choose one)

CHEM 100, 101, PHYS 110, 102, 120, 170, 191, 203, BIOL 101

Social Science Elective: (Choose one)

SOC 101, POSC 100, 101, PSYC 151, ECON 201, 202

Career Center Courses-Transfer 22 credit hours to WVSTC

WVEIS Code 0141	Aquaculture	3
WVEIS Code 0182	Forestry	2
WVEIS Code 0212	Horticulture	3
WVEIS Code 0149	Small Animal Care and Management	3
WVEIS Code 0214	Greenhouse Technology	3
WVEIS Code 0101	Agriculture and Natural Resources I	2
WVEIS Code 0145	Hydroponics	3
WVEIS Code 0102	Agriculture and Natural Resources 2	3

For More Information, Contact:
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**Associate in Applied Science in General Technology
Automotive Option
(Edge/Cooperative Program with Career/Technical Centers)**

The Associate in Applied Science in General Technology: Automotive Option is a collaborative program between WVSTC Career/Technical Centers. Students who complete the Automotive Program and transfer to WVSTC will be granted 28 credit hours toward the A.A.S. in General Technology: Automotive Option upon completion of all courses (with a grade of C or better) in the Automotive program and a passing score of 75% or above on the state exam.

Careers for Automotive

The program prepares the graduates for employment and/or further on-the-job training in the field of maintenance, service, and principles of operation of automotive vehicles. Typical jobs for graduates of this program may include:

- Maintenance and service of automotive vehicles
- Diagnostic operations of automotive vehicles
- Inspection and overhaul of automotive vehicles

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Program Learning Outcomes

Upon completion of this program the student will be able to:

1. Pursue careers in Automotive.
2. Construct, maintain, service automotive engines.
3. Explain the fundamentals of the automotive electrical system.
4. Identify the electronic engine controls and repair air conditioning systems.
5. Inspect the support systems used in automotive equipment technology.
6. Describe the engine components used in automotive equipment technology.
7. Inspect vehicles for preventative maintenance.

CURRICULUM/SUGGESTED SEQUENCE

(62-63 hours required for graduation) / (28 hours transfer from career center)

SECOND SEMESTER

ENG 120	Technical Writing OR	
BST 230	Bus. Comm. & Ethics OR	
COMM 100	Speech Communications	3
BST 240	Fund of Bus Comp Tech OR	
CS 106	Intro to Comp & Office Appl	3
BST 298	Business Studies Seminar	1
Elective	Social Science Elective	3
Elective	Natural Science Elective	3-4
Elective	Restricted Elective	3
	Total Credits	16-17

FIRST SEMESTER

COLL 101	College 101	3
HUM 101	Humanities	3
ENGL 101	English Composition I OR	
ENG 110	English Composition I	3
BST 104	Business Math	3
Elective	Restricted Elective	6
	Total Credits	18

Restricted Electives: (Choose any three courses)

BST 106, 151, 180, 201, 202, 205, 255, ITEC 101, 180, CS 109, CO-OP, and other courses as approved by the PD

Natural Science Electives: (Choose one)

CHEM 100, 101, PSYS 102, 110, 120, 170, 191, 203, BIOL 101

Social Science Elective: (Choose one)

SOC 101, POSC 100, 101, PSYC 151, ECON 201, 202

Career Center Courses-Transfer 28 credit hours to WVSTC

WVEIS Code 1631	Fund of Automotive Technology	3	WVEIS Code 1635	Man/Auto Drive Train Axles	4
WVEIS Code 1623	Basic Engine Concepts	3	WVEIS Code 1621	Auto Alternative Fuels I	2
WVEIS Code 1637	Suspension and Steering Diagnosis	3		(Restricted Elective)	
WVEIS Code 1625	Brakes	3			
WVEIS Code 1633	Heating and Air Conditioning	4			
WVEIS Code 1629	Engine Performance	4			
WVEIS Code 1627	Electrical/Electronic Systems	4			



**Associate in Applied Science in General Technology
Building Construction Option
(EDGE/Cooperative Program with Career/Technical Centers)**

The Associate in Applied Science in General Technology: Building Construction Option is an EDGE/collaborative program between WVSCCTC and Career/Technical Centers. Students who complete the Building Construction Program and transfer to WVSCCTC will be granted 28 credit hours toward the A.A.S. in General Technology: Building Construction Option upon completion of all courses in the Building Construction program and a passing score of 74% or above on the state exam.

Careers for Building Construction

The program prepares the graduates for employment in an entry-level position in residential and commercial building construction and maintenance. The Building Construction program is nationally accredited through the Associated General Contractors (AGC). Typical jobs for graduates of this program may include:

- Construction Industry
- Building Maintenance
- Hospital Maintenance Crews
- Hotel/Motel Maintenance

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Program Learning Outcomes

Upon completion of this program the student will be able to:

1. Pursue careers in Building Construction.
2. Construct foundations and framing.
3. Understand the basic knowledge of building plans and materials.
4. Implement safe work habits in general building occupations.
5. Estimate and install interior and exterior wall, ceiling and floor coverings.
6. Estimate and construct masonry and plumbing systems.

Curriculum/Suggested Sequence

(62-63 hours required for graduation) / (28 hours transfer from career center)

FIRST SEMESTER	CREDITS	SECOND SEMESTER	CREDITS
COLL 101 College 101	3	ENG 120 Technical Writing OR	
HUM 101 Humanities	3	BST 230 Bus Comm and Ethics	3
ENGL 101 English Composition I OR		CS 106 Intro to Comp & Office App OR	
ENG 110 English Composition I	3	BST 240 Fund of Bus Comp Tech	3
MATH 100 Intermediate Algebra OR	3	Elective Natural Science Elective	3-4
BST 104 Business Math		Elective Social Science Elective	3
Elective Restricted Elective	<u>6</u>	Elective Restricted Elective	<u>3</u>
Total Credits	18	Total Credits	16-17

Restricted Electives: (Choose any three courses)

BST 106, 151, 180, 201, 202, 205, 255, ITEC 101, 180, CS 109, CO-OP, and other courses as approved by the PD

Natural Science Electives: (Choose one)

CHEM 100, 101, PSYS 102, 110, 120, 170, 191, 203, BIOL 101

Social Science Elective: (Choose one)

SOC 101, POSC 100, 101, PSYC 151, ECON 201, 202

Career Center Course – Transfer 28 credit hours to WVSCCTC

WVEIS Code 1827	Fundamentals of Bldg Construction	3
WVEIS Code 1825	Foundations of Framing	4
WVEIS Code 1829	Masonry & Plumbing	3
WVEIS Code 1823	Finishing Carpentry	3
WVEIS Code 1822	Blue Print Reading for Construction	3
WVEIS Code 1821	Concrete Finishing	4
WVEIS Code 1826	Exterior Finishing Carpentry	4
WVEIS Code 1824	Advanced Framing Practices	4



**Associate in Applied Science in General Technology
Collision Repair Option
(EDGE/Cooperative Program with Career/Technical Centers)**

The Associate in Applied Science in General Technology: Collision Repair Option is an EDGE/ collaborative program between WVSTC and Career/Technical Centers. Students who complete the Collision Repair Program and transfer to WVSTC will be granted 30 credit hours toward the A.A.S. in General Technology: Collision Repair Option upon completion of all courses in the Collision Repair program and a passing score of 75% or above on the state exam.

Careers for Collision Repair

The program prepares the graduates for employment and/or further on-the-job training in the field of basic Collision Repair. Typical jobs for graduates of this program may include:

- Auto dealers or independent repair shops
- Insurance companies
- Auto manufacturing plants
- Specialty body shops

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Program Learning Outcomes

Upon completion of this program the student will be able to:

1. Pursue careers in collision repair.
2. Identify structural analysis and damage repair.
3. Identify components of the mechanical and electrical systems.
4. Identify plastics and adhesives systems.
5. Understand the painting and refinishing of surfaces.

Curriculum/Suggested Sequence

(61-62 hours required for graduation) / (30 hours transfer from career center)

FIRST SEMESTER				SECOND SEMESTER				CREDITS
CREDITS								
COLL	101	College 101	3	ENG	120	Technical Writing OR		3
HUM	101	Humanities	3	BST	230	Bus Comm and Ethics		
ENGL	101	English Composition I OR		CS	106	Intro to Comp & Office App OR		
ENG	110	English Composition I	3	BST	240	Fund of Bus Comp Tech		3
BST	104	Business Math	3	BST	298	Business Studies Seminar		1
Elective		Restricted Elective	<u>3</u>	Elective		Natural Science Elective		3-4
		Total Credits	15	Elective		Social Science Elective		3
				Elective		Restricted Elective		<u>3</u>
						Total Credits		16-17

Restricted Electives: (Choose any two courses)

BST 106, 139, 151, 180, 201, 202, 205, 255, ITEC 101, 180, CS 109, CO-OP, and other courses as approved by the PD

Natural Science Electives: (Choose one)

CHEM 100, 101, PSYS 102, 110, 120, 170, 191, 203, BIOL 101

Social Science Elective: (Choose one)

SOC 101, POSC 100, 101, PSYC 151, ECON 201, 202

Career Center Courses –Transfer 30 credit hours to WVSTC

WVEIS Code 1675	Non Structural Analysis and Damage Repair	3
WVEIS Code 1677	Structural Analysis and Damage Repair	4
WVEIS Code 1673	Mechanical and Electrical Components	4
WVEIS Code 1672	Detailing & Interior Parts	4
WVEIS Code 1679	Surface and Preparation and Refinishing	4
WVEIS Code 1674	Advanced Refinishing Techniques	4
WVEIS Code 1676	Custom Finishing Process	4
WVEIS Code 1671	Fundamentals of Collision Repair	3



**Associate in Applied Science in General Technology
Computer Aided Drafting and Design Option
(EDGE/Cooperative Program with Career/Technical Centers)**

The Associate in Applied Science in General Technology: Computer Aided Drafting and Design Option is an EDGE/collaborative program between WVSTC and Career/Technical Centers. Students who complete the Computer Aided Drafting and Design Program and transfer to WVSTC will be granted 21 credit hours toward the A.A.S. in General Technology: Computer Aided Drafting and Design Option upon completion of all courses in the Computer Aided Drafting and Design program and a passing score of 75% or above on the state exam.

Careers for Computer Aided Drafting and Design

The program prepares the graduates for employment and/or further on-the-job training in the field of basic Computer Aided Drafting and Design for many applications including architectural, mechanical, structural, electrical/electronics, and chemical. Typical jobs for graduates of this program may include:

- Architectural and Engineering firms
- Manufacturing industries
- Construction, Communications, and Utilities industries

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Program Learning Outcomes

Upon completion of this program the student will be able to:

1. Pursue careers in Computer Aided Drafting and Design.
2. Recognize and use an established set of standards in Computer Aided Drafting and Design.
3. Understand the application of dimensioning techniques, assembly and detail drawings, pictorial views and common threads and fasteners.
4. Apply the applications using a CAD system.
5. Interpret basic fundamentals of drafting and geometric construction.
6. Analyze the operation of advanced techniques and special projects.

Curriculum/Suggested Sequence

(61-62 hours required for graduation) / (28 hours transfer from career center)

FIRST SEMESTER

COLL 101	College 101	3
HUM 101	Humanities	3
ENGL 101	English Composition I OR	
ENG 110	English Composition I	3
MATH 100	Intermediate Algebra OR	
BST 104	Business Math OR	
MATH 101	College Algebra OR	
MAT 130	Technical Math I	3
Elective	Restricted Elective	<u>6</u>
	Total Credits	18

SECOND SEMESTER

ENG 120	Technical Writing OR	
BST 230	Bus Comm and Ethics	3
CS 106	Intro to Comp & Office App OR	
BST 240	Fund of Bus Comp Tech	3
BST 298	Business Studies Seminar	1
Elective	Natural Science Elective	3-4
Elective	Social Science Elective	3
Elective	Restricted Elective	<u>3</u>
	Total Credits	16-17

THIRD SEMESTER

Elective	Restricted Elective	<u>6</u>
	Total Credits	6

Restricted Electives: (Choose any five courses)

BST 106, 151, 180, 201, 202, 205, 255, ITEC 101, 180, CS 109, CO-OP, and other courses as approved by the PD

Natural Science Electives: (Choose one) CHEM 100, 101, PSYS 102, 110, 120, 170, 191, 203, BIOL 101

Social Science Elective: (Choose one) SOC 101, POSC 100, 101, PSYC 151, ECON 201, 202

Career & Technical Courses-Transfer 21 credit hours to WVSTC

WVEIS Code 1729	Fundamentals of Drafting	2	WVEIS Code 1728	Adv Computer Aided Drafting	3
WVEIS Code 1727	Drafting Techniques	2	WVEIS Code 1723	Drafting Specialization Civil	3
WVEIS Code 1725	Drafting Specialization Mech	3	WVEIS Code 1724	Electrical/Electronics Drafting	3
WVEIS Code 1721	Drafting Specialization Arch	3	WVEIS Code 1661	Blueprint Reading	2



**Associate in Applied Science in General Technology
Diesel Mechanics Option
(EDGE/Cooperative Program with Career/Technical Centers)**

The Associate in Applied Science in General Technology: Diesel Mechanics Option is an EDGE/ collaborative program between WVSCCTC and Career/Technical Centers. Students who complete the Diesel Mechanics Program and transfer to WVSCCTC will be granted 30 credit hours toward the A.A.S. in General Technology: Diesel Mechanics Option upon completion of all courses (with a grade of C or better) in the Diesel Mechanics program and a passing score of 75% or above on the state exam.

Careers for Diesel Mechanics

The program prepares the graduates for employment and/or further on-the-job training in the field of maintenance, service, and principles of operation of diesel engines. Typical jobs for graduates of this program may include:

- Maintenance and service of diesel engines
- Diagnostic operations of diesel engines
- Inspection and overhaul of diesel engines

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Program Learning Outcomes

Upon completion of this program the student will be able to:

1. Pursue careers in diesel mechanics.
2. Construct, maintain, and service small diesel engines.
3. Explain the fundamentals of the diesel electrical system.
4. Identify the electronic engine controls and repair air conditioning systems.
5. Inspect the support systems used in diesel equipment technology.
6. Describe the engine components used in diesel equipment technology.
7. Inspect medium and heavy trucks for preventative maintenance.

Curriculum/Suggested Sequence

(62-63 hours required for graduation) / (30 hours transfer from career center)

FIRST SEMESTER

COLL 101	College 101	3
HUM 101	Intro to Humanities	3
ENGL 101	English Composition I OR	
ENG 110	English Composition I	3
MATH 100	Intermediate Algebra OR	
BST 104	Business Math	3
Elective	Restricted Elective	<u>3</u>
	Total Credits	15

SECOND SEMESTER

ENG 120	Technical Writing OR	
BST 230	Bus Comm & Ethics	3
CS 106	Intro to Com & Office Appl OR	
BST 240	Fund of Computer Tech	3
BST 298	Business Studies Seminar	1
Elective	Natural Science Elective	4-5
Elective	Social Science Elective	3
Elective	Restricted Elective	<u>3</u>
	Total Credits	17-18

Restricted Electives: Choose any two courses

BST 106, 151, 205, 255, 202, 180, CO-OP, and other courses as approved by Program Director

Natural Science Electives:

BIO 101, CHEM 101, PHYS 191 & 203, 201 & 203

Social Science Electives:

SOC 101, POSC 100, POSC 101, PSYC 151, ECON 201, ECON 202

Career/Technical Courses-Transfer 30 credit hours to WVSCCTC

WVEIS Code 1741	Electronic Engine Concepts	4	WVEIS 1949	Diesel Truck Chassis Const II	5
WVEIS Code 1742	Electrical Systems	4	WVEIS 1751	Fund of Diesel Equip Tech	3
WVEIS Code 1743	Diesel Engine Tune-Up	4			
WVEIS Code 1744	Electronic Engine Controls	3			
WVEIS Code 1745	Diesel Prevent/Maintenance & Inspec	3			
WVEIS Code 1747	Diesel Support Systems	4			



**Associate in Applied Science in General Technology
Electricity Option
(EDGE/Cooperative Program with Career/Technical Centers)**

The Associate in Applied Science in General Technology: Electricity Option is an EDGE/collaborative program between WVSCCTC and Career/Technical Centers. Students who complete the Electricity Program and transfer to WVSCCTC will be granted 30 credit hours toward the A.A.S. in General Technology: Electricity Option upon completion of all courses in the Electricity program and a passing score of 75% or above on the state exam.

Careers for Electricity

The program prepares the graduates for employment and/or further on-the-job training in the field of basic DC and AC theory, residential and commercial wiring, motor circuits and control according to the National Electrical Code. Typical jobs for graduates of this program may include:

- Contract Residential and Commercial Electrician
- Industrial Electrician
- Basic knowledge to become a Mining Electrician

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Program Learning Outcomes

Upon completion of this program the student will be able to:

1. Pursue careers in Electricity.
2. Use meters and construct circuits.
3. Install industrial and commercial wiring according to the National Electrical Code.
4. Prepare for the state license testing.
5. Interpret basic circuits, devices, and wiring techniques used in residential dwellings.
6. Interpret control circuits, pilot devices, motor controls, relays, motor braking circuits, alternators and generators and AC and DC motors.
7. Analyze the operation of programmable logic controllers, fiber optics, and lasers.

Curriculum/Suggested Sequence

(61-62 hours required for graduation) / (30 hours transfer from career center)

FIRST SEMESTER

COLL 101	College 101	3
HUM 101	Intro to Humanities	3
ENGL 101	English Composition I OR	
ENG 110	English Composition I	3
MATH 100	Intermediate Algebra OR	
BST 104	Business Math	3
Elective	Restricted Elective	<u>3</u>
	Total Credits	15

SECOND SEMESTER

ENG 120	Technical Writing OR	
BST 230	Bus Comm & Ethics	
CS 106	Intro to Comp & Office Appl OR	3
BST 240	Fund of Bus Computer Tech	3
BST 298	Business Studies Seminar	1
Elective	Natural Science Elective	3-4
Elective	Social Science Elective	3
Elective	Restricted Elective	<u>3</u>
	Total Credits	16-17

Restricted Electives (Choose any two courses) - BST 106,151, 180, 201,202, 205,255, ITEC - 180, 101, CS 109, CO-OP, and other courses as approved by program director.

Natural Science Electives (Choose one) – BIOL 101, CHEM 100, 101, PHYS 110, 102, 120, 170, 191 & 203

Social Science Electives (Choose one) – SOC 101, POSC 100, 101, PSYC 151, ECON 201, 202

Career Technical Center Courses-Transfer 30 credit hours to WVSCCTC

WVEIS Code 1763	Fundamentals of Electricity	3
WVEIS Code 1765	Industrial & Commercial Writing	4
WVEIS Code 1767	National Electric Code	3
WVEIS Code 1769	Residential Wiring	4
WVEIS Code 1771	Rotating Devices & Control Circuitry	4
WVEIS Code 1601	Basic Control Circuits	4
WVEIS Code 1762	Blueprint Reading for Electricians	4
WVEIS Code 1766	Integrated Electrical Lab OR	
WVEIS Code 1773	Special Applications in Electronics	4



**Associate in Applied Science in General Technology
Electronics Technician Option
(EDGE/Cooperative Program with Career/Technical Centers)**

The Associate in Applied Science in General Technology: Electronics Technician Option is an EDGE/ collaborative program between WVSTC and Career/Technical Centers. Students who complete the Electronics Technician Program and transfer to WVSTC will be granted 31 credit hours toward the A.A.S. in General Technology: Electronics Technician Option only upon completion of all courses (with a grade of C or better) in the Electronics Technology program and a passing score of 75% or above on the state exam.

Careers for Electronics Technicians

The program primarily prepares the graduates for employment and/or further on-the-job training in the field of consumer, commercial, and industrial electronics as service or maintenance technicians. Typical jobs for graduates of this program may include:

- Maintenance and service of electronic, computer, and communication equipment;
- Consumer electronics (audio and video) business electronics (data processing equipment);
- Automation (robotics and artificial intelligence);
- Utility companies (electric, telephone, gas, cable, and computer interactive services);
- Health care industry as bio-electronics technicians;
- Broadcast industry as radio/television engineers/ technicians; and
- any facility or operation using electrical/electronic systems, e.g., manufacturing industries, mining, armed forces, automobile, aerospace, semiconductor, waste-treatment, and weather forecasting.

Program Learning Outcomes

Upon completion of this program the student will be able to:

1. Pursue careers in electronics.
2. Adapt to rapid changes in the electronics field.
3. Explain DC and AC circuits.
4. Understand wiring and soldering.
5. Describe solid state devices.
6. Understand computer electronics theory and circuits.

Curriculum/Suggested Sequence

(66-67 hours required for graduation)

FIRST SEMESTER

COLL 101	College 101	3
HUM 101	Humanities	3
ENGL 101	English Composition I OR	
ENG 110	English Composition I	3
MATH 100	Intermediate Algebra OR	
BST 104	Business Math	3
Elective	Restricted Elective	<u>6</u>
	Total Credits	18

SECOND SEMESTER

ENG 120	Technical Writing OR	
BST 230	Bus Comm and Ethics OR	3
CS 106	Intro to Comp & Office App OR	
BST 240	Fund of Bus Comp Tech OR	3
BST 298	Business Studies Seminar	1
Elective	Natural Science Elective	4-5
Elective	Social Science Elective	3
Elective	Restricted Elective	<u>3</u>
	Total Credits	17-18

Restricted Electives (Choose any three courses) - BST 106,151, 180, 201,202, 205,255, ITEC, 101, 180, CS 109, CO-OP, and other courses as approved by program director.

Natural Science Electives (Choose one) – BIOL 101, CHEM 100, 101, PHYS 110, 102, 120, 170, 191 & 203

Social Science Electives (Choose one) – SOC 101, POSC 100, 101, PSYC 151, ECON 201, 202

Career/Technical Center Courses-Transfer 31 credit hours to WVSTC

WVEIS Code 1763	Fundamentals of Electricity	3	WVEIS Code 1789	Analog Circuits	3
WVEIS Code 1787	DC Circuit & Electronics Physics	3	WVEIS Code 1785	Digital Circuits	3
WVEIS Code 1783	AC Circuit	3	WVEIS Code 1782	Comp Elec Theory	3
WVEIS Code 1795	Wiring & Soldering	3	WVEIS Code 1784	Comp Elec Circuits	3
WVEIS Code 1781	Analog Circuits	3	WVEIS Code 1791	Electron Specialization	4

Note: Student must complete two years at Ben Franklin Career Center to obtain degree program from WVSTC.



**Associate in Applied Science in General Technology
Graphic Design Option
(EDGE/Cooperative Program with Career/Technical Centers)**

The Associate in Applied Science in General Technology: Graphic Design Option is an EDGE/ collaborative program between WVSTC and Putnam Career & Technical Center. Students who complete PCTC's Graphic Design Program and transfer to WVSTC will be granted 32 credit hours toward the A.A.S. in General Technology: Graphic Design Option upon completion of all courses (with a grade of B or better) in the PCTC Graphic Design program and a passing score of 75% or above on the state exam.

Careers in Graphic Design

The program primarily prepares the graduates for employment and/or further on-the-job training in the fields of graphic design and advertising. Typical jobs for graduates of this program may include:

- graphic design businesses
- printing businesses
- advertising businesses
- entrepreneurship opportunities

Program Learning Outcomes

These learning outcomes are established for the Graphic Design Program at the associate degree level. Upon completion of this program the student will be able to:

1. Obtain appropriate employment as a Graphic Design artist.
2. Adapt to emerging and rapid changes in technology.
3. Assist in a graphic design labs.
4. Assist with press and printing procedures.
5. Assist in the creativity and management procedures of layouts.
6. Assist in website design and animation.
7. Assist in drawing and painting techniques.

For More Information, Contact
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Curriculum/Suggested Sequence

(66 hours required for graduation)
College 101 if ACT is 19 or below

CLASSES HELD AT WVSTC

FIRST SEMESTER

HUM	101	Humanities	3
ENGL	101	English Composition I OR	
ENG	110	English Composition I	3
BST	104	Business Math	3
BST	240	Fund of Bus Comp Tech	3
BST	173	Sales I	3
BST	106	Introduction to Business	3
Total Credits			18

SECOND SEMESTER

BST	205	Fund of Marketing	3
BST	230	Bus Comm & Ethics OR	
ENG	120	Technical Writing	3
BST	298	Bus Studies Seminar	1
COMM	285	Web Design & Dig Media	3
PSYC	151	General Psychology	3
PHYS	103	Elem of Phys Science OR	
CHEM	100	Consumer Chemistry	3
Total Credits			16

Graphic Design courses offered at Putnam Career & Technical Center

WVEIS Code 1851	Basic Illustration	4
WVEIS Code 1861	Illustration	4
WVEIS Code 1857	Fund of Graphic Design and Prod.	4
WVEIS Code 1859	Graphic Design	4
WVEIS Code 1853	Computer Graphics	4
WVEIS Code 1854	Advanced Computer Graphics	4
WVEIS Code 1855	Desktop Publishing/Page Layout	4
WVEIS Code 1856	Advanced Desktop Pub/Page Layout	4
Total Credits		32

Note: Student must complete two years at Putnam Career & Technical Center to obtain this degree program at WVSTC.



**Associate in Applied Science in General Technology
Heating, Ventilation, and Air Conditioning Option
(EDGE/Cooperative Program with Career/Technical Centers)**

The Associate in Applied Science in General Technology: Heating, Ventilation, and Air Conditioning (HVAC) Option is an EDGE/collaborative program between WVSCCTC and the Career/Technical Centers. Students who complete the HVAC Program and transfer to WVSCCTC will be granted 30 credit hours toward the A.A.S. in General Technology: Heating, Ventilation, and Air Conditioning Option only upon completion of all courses (with a grade of C or better) in the HVAC program and a passing score of 75% or above on the state exam and upon achievement of the industry certification in the following: ICE (Industry Competency Exam) ARI and achieve EPA Certification on Section 608.

Careers for Heating, Ventilation, and Air Conditioning Technicians

The program primarily prepares the graduates for employment and/or further on-the-job training in the field of heating, refrigeration, air conditioning, and control circuits systems. Typical jobs for graduates of this program may include:

- Heating, cooling, and electrical companies
- Maintenance and service of gas, oil, electric, and heat pump systems
- Maintenance and service of refrigerators, air conditioners, and dehumidifiers
- Maintenance and service of electrical components

For More Information, Contact
Ms. Sandra LaVoie, Program
Director
Cole Complex 201
Phone: (304) 766-5119
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Program Learning Outcomes

Upon completion of this program the student will be able to:

1. Pursue careers in heating, cooling, and electrical.
2. Service, install, and repair heating systems.
3. Analyze and repair refrigeration systems, air conditioners, and dehumidifiers.
4. Repair or replace electrical components.
5. Complete the required course work in general education that meets the requirements for an associate degree.

CURRICULUM/SUGGESTED SEQUENCE

(65-66 hour required for graduation) / (30 hours transfer from career center)

FIRST SEMESTER

COLL 101	College 101	3
HUM 101	Introduction to Humanities	3
ENGL 101	English Composition OR	
ENG 110	English Composition I	3
MATH 100	Intermediate Algebra OR	
BST 104	Business Math	3
Elective	Restricted Electives	6
	Total Credits	18

SECOND SEMESTER

ENG 120	Technical Writing OR	
BST 230	Business Comm and Ethics	3
CS 106	Intro to Comp & Office Appl OR	
BST 240	Fund of Bus Computer Tech	3
BST 298	Business Seminar	1
Elective	Natural Science Elective	3-4
Elective	Social Science Elective	3
Elective	Restricted Elective	3
	Total Credits	17-18

Career/Technical Center Courses-Transfer 30 credit hours to WVSCCTC

WVEIS Code 1602	Electrical Components	3
WVEIS Code 1606	Air Prop & Distribution	3
WVEIS Code 1605	Fund of AC/Ref I	4
WVEIS Code 1601	Basic Control Circuits	4
WVEIS Code 1603	Domestic Refrigeration I	4
WVEIS Code 1607	Heating Systems OR	
WVEIS Code 1608	Commercial Air Conditioning	4
WVEIS Code 1604	Fossil Fuel Heating Systems	4
WVEIS Code 1609	Adv Duct Work	4

Restricted Electives: (Choose three)- BST 106, 139, 151, 180, 201,202, 205,255, ITEC - 180, 101, CS 109, CO-OP, and other courses as approved by program director.

Natural Science Electives: (Choose one) – BIOL 101, CHEM 100, 101, PHYS 102, 191 & 203, 201 & 203

Social Science Electives: (Choose one) – SOC 101, POSC 100, 101, PSYC 151, ECON 201, 202



**Associate in Applied Science in General Technology
Machine Tool Technology Option
(EDGE/Cooperative Program with Career/Technical Centers)**

The Associate in Applied Science in General Technology: Machine Tool Technology Option is a collaborative program between WVSTC and Career/Technical Centers. Students who complete the Machine Tool Technology Program and transfer to WVSTC will be granted 30 credit hours toward the A.A.S. in General Technology: Machine Tool Technology Option upon completion of all courses (with a grade of C or better) in the Machine Tool Technology program and a passing score of 75% or above on the state exam.

Careers for Machine Tool Technology

The program prepares the graduates for employment and/or further on-the-job training in the field of a basic machinist who shapes metal and nonmetal parts by using machine tools and hand tools. Typical jobs for graduates of this program may include:

- Manufacturing companies that employ Machinists
- Machine operators who produce parts for aircraft and automobiles
- Steel Mills, Paper Mills, and Chemical Plants
- Machinists work as Tool and Die Makers

For More Information, Contact
Ms. Sandra LaVoie, Program Director
Cole Complex 201
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Program Learning Outcomes

Upon completion of this program the student will be able to:

1. Pursue careers in Machine Tool Technology.
2. Interpret blueprint readings, layout and measuring, and hand and power tools that are used in a machine shop.
3. Demonstrate metallurgy, welding, and advanced hand and power tools.
4. Demonstrate advanced skills related to CNC Machining Technology.
5. Interpret metal trades process and application.

Curriculum/Suggested Sequence

(62-63 hours required for graduation) / (30 hours transfer from career center)

FIRST SEMESTER

COLL 101	College 101	3
HUM 101	Intro to Humanities	3
ENGL 101	English Composition I OR	
ENG 110	English Composition I	3
MATH 100	Intermediate Algebra OR	
BST 104	Business Math	3
Elective	Restricted Elective	<u>3</u>
	Total Credits	15

SECOND SEMESTER

ENG 120	Technical Writing OR	
BST 230	Bus Comm & Ethics	3
CS 106	Intro to Comp & Office Appl OR	
BST 240	Fund of Bus Computer Tech	3
BST 298	Business Studies Seminar	1
Elective	Natural Science Elective	4-5
Elective	Social Science Elective	3
Elective	Restricted Elective	<u>3</u>
	Total Credits	17-18

Restricted Electives: (Choose two) - BST 106,151, 205,255, 202, ITEC 180, 101, CO-OP, and other courses as approved by program director.

Natural Science Electives: BIOL 101, CHEM 101, PHYS 191 & 203, 201 & 203

Social Science Electives : SOC 101, POSC 100, 101, PSYC 151, ECON 201, 202

Career/Technical Center Courses-Transfer 30 credit hours to WVSTC

WVEIS Code	1902	Adv. Machine Tool Technology	4
WVEIS Code	1903	Fund. of Machine Tool Technology	3
WVEIS Code	1904	Integrated Machine Procedures	4
WVEIS Code	1905	Machine Processes & Applications	3
WVEIS Code	1906	Adv. Machine Procedures	5
WVEIS Code	1907	Machining Processes and Applications	3
WVEIS Code	1908	Adv. CNC Machining	5
WVEIS Code	1909	Metal Trades Process & Application	3



**Associate in Applied Science in General Technology
Masonry Option
(EDGE/Cooperative Program with Career/Technical Centers)**

The Associate in Applied Science in General Technology: Masonry Option is an EDGE/collaborative program between WVSTC and Career/Technical Centers. Students who complete the Masonry Program and transfer to WVSTC will be granted 28 credit hours toward the A.A.S. in General Technology: Masonry Option upon completion of all courses in the Masonry program and a passing score of 75% or above on the state exam.

Careers for Masonry

The program prepares the graduates for employment and/or further on-the-job training in the field of basic masonry, foundations and footings, bricklaying, block and rock laying, concrete finishing, decorative masonry, and advanced bricklaying and masonry procedures. Typical jobs for graduates of this program may include:

- Contract Residential and Commercial Masonry
- Industrial Masonry
- Bricklayer and Stonemason Contractors

For More Information, Contact
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Program Learning Outcomes

Upon completion of this program the student will be able to:

1. Pursue careers in Masonry.
2. Recognize and use an established set of standards in masonry.
3. Install bricks and stones in commercials and residential construction.
4. Use the application for brick mortar joints.
5. Interpret basic fundamentals of laying foundations and footings.
6. Interpret the standards used in formation of block leads and corners.
7. Analyze the operation of advanced techniques and special projects.

Curriculum/Suggested Sequence

(62-63 hours required for graduation) / (30 hours transfer from career center)

FIRST SEMESTER				SECOND SEMESTER			
COLL	101	College 101	3	ENG	120	Technical Writing OR	
HUM	101	Intro to Humanities	3	BST	230	Bus Comm & Ethics	3
ENGL	101	English Composition I OR		CS	106	Intro to Comp & Office Appl OR	
ENG	110	English Composition I	3	BST	240	Fund of Bus Computer Tech	3
MATH	100	Intermediate Algebra OR		BST	298	Business Studies Seminar	1
BST	104	Business Math	3	Elective		Natural Science Elective	4-5
Elective		Restricted Elective	<u>3</u>	Elective		Social Science Elective	3
		Total Credits	15	Elective		Restricted Elective	<u>3</u>
				Total Credits			17-18

Restricted Electives: (Choose two) - BST 106,151, 205,255, 202, ITEC 180, 101, CO-OP, and other courses as approved by program director.

Natural Science Electives: (Choose one) – BIOL 101, CHEM 101, PHYS 191 & 203, 201 & 203

Social Science Electives: (Choose one) – SOC 101, POSC 100, 101, PSYC 151, ECON 201, 202

Career/Technical Center Courses-Transfer 28 credit hours to WVSTC

WVEIS Code	1919	Fundamentals of Masonry	3
WVEIS Code	1917	Foundations and Footings	3
WVEIS Code	1913	Bricklaying	3
WVEIS Code	1911	Block and Rock Laying	3
WVEIS Code	1915	Concrete Finishing	4
WVEIS Code	1916	Decorative Masonry Work	4
WVEIS Code	1914	Advanced Bricklaying	4
WVEIS Code	1912	Advanced Masonry Procedures	4



**Associate in Applied Science in General Technology
Plumbing Option
(EDGE/Cooperative Program with Career/Technical Centers)**

The Associate in Applied Science in General Technology: Plumbing Option is an EDGE/collaborative program between WVSTC and Career/Technical Centers. Students who complete the Plumbing Program and transfer to WVSTC will be granted 30 credit hours toward the A.A.S. in General Technology: Plumbing Option upon completion of all courses in the Plumbing program and a passing score of 75% or above on the state exam.

Careers for Plumbing

The program prepares the graduates for employment and/or further on-the-job training in the field of basic plumbing theory in the residential and commercial areas. Typical jobs for graduates of this program may include:

- Contract Residential and Commercial Plumbers
- Industrial Plumbers
- Basic knowledge to become certified in NCCER; gas piping; wardflex piping; gastite piping and NOCTI

Program Learning Outcomes

Upon completion of this program the student will be able to:

1. Pursue careers in Plumbing.
2. Describe the basic procedures for construction safety.
3. Identify the parts of fitting and measuring techniques.
4. Identify the components of fuel systems.
5. Identify the basic types of materials used in the manufacture of plumbing fixtures.

For More Information, Contact
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Curriculum/Suggested Sequence

(62-63 hours required for graduation) / (30 hours transfer from career center)

FIRST SEMESTER

COLL 101	College 101	3
HUM 101	Intro to Humanities	3
ENGL 101	English Composition I OR	
ENG 110	English Composition I	3
MATH 100	Intermediate Algebra OR	
BST 104	Business Math	3
Elective	Restricted Elective	<u>3</u>
	Total Credits	15

SECOND SEMESTER

ENG 120	Technical Writing OR	
BST 230	Bus Comm & Ethics	3
CS 106	Intro to Comp & Office Appl OR	
BST 240	Fund of Bus Computer Tech	3
BST 298	Business Studies Seminar	1
Elective	Natural Science Elective	3-4
Elective	Social Science Elective	3
Elective	Restricted Elective	<u>3</u>
	Total Credits	16-17

Restricted Electives: (Choose two) - BST 106,151, 205,255, 202, ITEC 180, 101, CO-OP, and other courses as approved by program director.

Natural Science Electives: (Choose one) – BIOL 101, CHEM 101, PHYS 191 & 203, 201 & 203

Social Science Electives: (Choose one) – SOC 101, POSC 100, 101, PSYC 151, ECON 201, 202

Career/Technical Center Courses-Transfer 30 credit hours to WVSTC

WVEIS Code	2142	Construction Safety	3
WVEIS Code	2143	Introduction to the Plumbing Trade	3
WVEIS Code	2144	Basic Plumbing	4
WVEIS Code	2145	Soldering & flaring copper Pipe	4
WVEIS Code	2146	Gas Piping	4
WVEIS Code	2147	Cast-Iron Piping	4
WVEIS Code	2148	Drains, Waste and Vent Systems	4
WVEIS Code	2149	Plumbing Fixtures	4



**Associate in Applied Science in General Technology
Welding Technology Option
(EDGE/Cooperative Program with Career/Technical Centers)**

The Associate in Applied Science in General Technology: Welding Technology Option is an EDGE/collaborative program between WVSTC and Career/Technical Centers. Students who complete the Welding Technology Program and transfer to WVSTC will be granted 28 credit hours toward the A.A.S. in General Technology: Welding Technology Option upon completion of all courses in the Welding Technology program and a passing score of 74% or above on the state exam.

Careers for Welding Technology

The program prepares the graduates for employment in an entry-level position in industries utilizing welding technology. Students successfully completing testing on SMAW, GTAW, GMAW, FCAW or OAW will be awarded a certificate. The Welding Technology program is nationally approved through the American Welding Society (AWS) and students passing the above listed tests will be placed on the AWS registry. Typical jobs for graduates of this program may include:

- Welding Industry
- Construction Maintenance

Program Learning Outcomes

Upon completion of this program the student will be able to:

1. Pursue careers in Welding Industries.
2. Perform shielded metal arc welding processes (SMAW).
3. Apply gas metal arc welding procedures (GMAW).
4. Utilize flux cored arc welding (FCAW-S, FCAW-G) processes.
5. Perform gas tungsten arc welding (GTAW).
6. Understand the fundamentals of blueprint reading.

For More Information, Contact:
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Curriculum/Suggested Sequence

(62-63 hours required for graduation) / (30 hours transfer from career center)

FIRST SEMESTER

COLL 101	College 101	3
HUM 101	Intro to Humanities	3
ENGL 101	English Composition I OR	
ENG 110	English Composition I	3
MATH 100	Intermediate Algebra OR	
BST 104	Business Math	3
Elective	Restricted Elective	6
	Total Credits	18

SECOND SEMESTER

ENG 120	Technical Writing OR	
BST 230	Bus Comm & Ethics	3
CS 106	Intro to Comp & Office Appl OR	
BST 240	Fund of Bus Computer Tech	3
BST 298	Business Studies Seminar	1
Elective	Natural Science Elective	3-4
Elective	Social Science Elective	3
Elective	Restricted Elective	3
	Total Credits	16-17

Restricted Electives: (Choose three) - BST 106,151, 180, 201, 202, 205,255, ITEC 180, 101, CS 109, CO-OP, and other courses as approved by program director.

Natural Science Electives: (Choose one) – BIOL 101, CHEM 101, PHYS 191 & 203, 201 & 203

Social Science Electives: (Choose one) – SOC 101, POSC 100, 101, PSYC 151, ECON 201, 202

Career/Technical Center Courses-Transfer 30 credit hours to WVSTC

WVEIS Code	1985	Fundamentals of Welding Tech	3
WVEIS Code	1995	Thermal Cutting and Welding	4
WVEIS Code	1993	Shielded Metal Arc Welding	3
WVEIS Code	1987	Gas Metal Arch Welding	3
WVEIS Code	1983	Blueprint Reading * Metallurgy	3
WVEIS Code	1989	Gas Tungsten Arc Welding	4
WVEIS Code	1982	Ornamental Metalwork	4
WVEIS Code	1981	Arc Welding	4

