Whatever your destination may be, JRTI can help get you there.

Limitless opportunities several Adult and High School Programs!

Financial aid and scholarships available. See our website for more information.

APPLY ONLINE
www.jamesrumsey.com

Launching careers in the 4-state area for over 50 years!

LOOK INSIDE!
Discover where you can go...

James Rumsey Technical Institute
EARN COLLEGE CREDITS
Many of our two year programs give you the skills and certification to start out at entry level positions within your field. In addition to giving you specific training within your chosen career path, you will also be in contact with local businesses and institutions that are looking to hire skilled professionals!

EARN EXPERIENCE THROUGH COOPERATIVE EDUCATION
All of James Rumsey Technical Institute's programs are structured as simulated work places. This gives each student the ability to work with one another as a small business and establish dynamic synergies that push technical learning beyond the classroom. Hands-on work experience ensures a stronger understanding of your educational experience while being utilized in a safe and guided environment.

START YOUR CAREER SOONER
All of our programs have strong educational and business relationships with local companies. In addition to being able to move right into your chosen career after successfully completing our courses, you will also have access to career placement services through the school to help start you on your path.

MONEY SAVINGS
James Rumsey Technical Institute offers higher education opportunities at a fraction of the cost of traditional four year schooling, while providing students with a quality education to ensure success in their chosen field.

LOCAL NETWORKING OPPORTUNITIES
Each program instructor keeps current with technology, industry and educational changes throughout the year by being actively involved with local business owners and industry specialists. These outside community members offer their time and support to JRTI throughout the year to play an active role in student development, allowing students the opportunity to explore outside local resources.

JOB PLACEMENT
JRTI has a full-time Job Placement Coordinator on staff that assists with career openings and availabilities. In addition to this, each instructor teaches interviewing and resume writing skills that are specific to your chosen industry.

ADMINISTRATION
Donna Van Metre .......................................................... Director
Russell Penner .......................................................... ACE Assistant Principal/Work-Based Learning Coordinator
Carla Cacicia .......................................................... Student Services
Andrew Albright .......................................................... HS Assistant Principal/Facilities

James Rumsey Technical Institute is accredited by the Commission of the Council on Occupational Education.

James Rumsey Technical Institute does not discriminate on the basis of race, color, national origin, sex, religion, disability, age, or any other basis prohibited by law in its programs, activities, or employment practices. For inquiries contact: Title IX Director, 3274 Hedgesville Rd, Martinsburg, WV 25403, 304-754-7925.
Looking for a course we don’t offer or want to expand on the program you’re taking? JRTI offers an extensive catalog of online courses through ed2go. Choose from either quick classes that take only a few weeks or career training courses that take up to 18 months to complete.

For more information, visit https://www.ed2go.com/rumsey/
The WV Adult Education programs build skills for success by providing adults with the opportunity to acquire and improve functional skills necessary to enhance the quality of their lives as workers, family members, and citizens. These programs play an important role in fostering productive employment, effective citizenship, personal and family growth, self-esteem, and dignity for adult learners.

What is “Adult Education”?
The West Virginia Department of Education (WVDE) recognizes that today’s workplace presents numerous opportunities and challenges for adults in West Virginia. Employers need workers with strong basic skills and an ability to adapt to change. Today’s families are faced with multiple responsibilities as they address their children’s educational needs as well as their own. Special populations, such as the homeless and incarcerated, must deal with additional challenges in order to lead safe and productive lives.

High School Equivalency
Work on the steps of the education plan which you and your instructor developed. This can include in-person instruction, virtual instruction, and distance education methods.

Then, you’ll take the HiSet Official Practice Test to determine your ability to pass the actual High School Equivalency (HSE) exam.

Once you are ready, your instructor will assist you to register for the HSE at a nearby testing center.

Finally, take (& pass) your HSE exam!

Can I Study At Home?
In order to participate in the distance education program, you must be a West Virginia resident and be able to go to an onsite class to take the assessment test and enroll.

Types Of Training
Broadly the type of training adult education offers can be divided into three categories:

Academic: whether obtaining your high school equivalency, preparing for a post-secondary school entrance exam, or preparing for the academic components of a work-based certification – we can help!

Soft Skills: whether it is preparing a resume, writing a cover letter, or learning about the employment skills most in demand by employers – we can help!

Certifications: whether it is learning about customer service, digital skills, or Microsoft Office products – we can help!

Microsoft Office Associate: earn your certification in Excel, Word, Outlook, or PowerPoint.

Microsoft Office Specialist – Associate: Earn any three of the four MOA.
There are a lot of choices for adult technical education these days. Why is JRTI your best option? We’ve been serving the community since 1969, and have a proven track record of student success and industry relationships. Unlike many of our competitors, we are not a for-profit school. We are a public institution dedicated to serving the community.

Program Entry Requirements
To ensure successful completion of the course of study, students must meet course requirements and complete all enrollment procedures before being admitted to class. For specific requirements for each program, visit www.jamesrumsey.com or call 304-754-7925.

All adult students who enter James Rumsey Technical Institute must be assessed. The Truck Driving program is the only program that does not require a high school diploma, HISET, TASC™, GED®, or a West Virginia-accepted equivalency diploma.

Enrollment Procedures
Each program’s enrollment procedure is slightly different. The best thing to do is to go to the program’s page on our website, www.jamesrumsey.com. You will find a link to the procedures for that specific program.

WHY CHOOSE JRTI FOR ADULT TECHNICAL TRAINING?
Check the program's prerequisites. Each program has its own requirements. However, most programs require that you be at least 18 years old, and have a high school diploma or WV-accepted equivalency diploma.

Financial Aid
Information can be found at www.jamesrumsey.com. JRTI offers tuition assistance, NOT student loans. Applicants may complete the FAFSA during the enrollment process at least 2 weeks after submitting the previous year’s income tax return.

Processing financial aid funding:
Upon receiving JRTI acceptance notices, applicants eligible for the Pell Grant should contact our Office of Student Services at 304-754-7925.

Textbook, registration and pre-admission fees are non-refundable.

Learn more at www.jamesrumsey.com
The curriculum is divided into four (4) marking periods. Classes include:

**Automotive Fundamentals**
- Careers in Automotive Technology
- Safety
- Tools—use and care

**Brakes**
- Brakes—Disc and Drum
- Electronic Anti-lock Brakes

**Steering and Suspension**
- Alignment
- Steering Systems
- Front and Rear Suspension

**Engine**
- Block/Heads
- Valve train

**Engine Performance**
- Fuel System Components - Functions
- Emissions Controls
- Computer Inputs/Outputs
- Ignition Systems

**Electrical**
- Wiring Systems
- Electronic Components
- Scan Tool Use

**Heating and Air Conditioning**
- A/C System Components
- A/C Operation and Theory
- Heating Components

**Courses of Study**
- 9243A Automotive Technology MLR-1
- 9244A Automotive Technology MLR-3
- 9245A Automotive Technology MLR-4
- 9246A Automotive Technology MLR-2
- 9247A Alternative Fuels
- 9248A Automotive Technology AST-4
- 9249A Automotive Technology AST-1
- 9250A Automotive Technology AST-2
- 9251A Automotive Technology AST-3
- 9011A Work-Based Integration & Transition

**Opportunities in the Field**
- Dealerships—Line Mechanic, Specialty Mechanic, New/Used Car Preparation Parts, Parts Sales
- Specialty Shops—Brakes, Tune-Up, Exhaust, Tires
- Independent Shops
- Service Centers
- Service Stores
- Parts Stores

**Cooperative Education**
Offered through area dealerships, such as
- Apple Valley Chevrolet/Toyota
- Miller Honda
- Miller Jeep
- Thomassen Ford
- Douglas Chevrolet
- Opequon Motors
- Parsons Ford

**Academic**
Applicant must be a high school graduate or have a GED equivalent and must take the TABE (Test of Adult Basic Education). **Enrollment**
Class enrollment is limited to 20.

**Graduation**
Upon successful completion of the program, graduates receive a certificate. Students are required to take ASE Tests which will recognize them nationally in areas of training.

**Health**
Students must be in good health, able to lift approximately forty pounds, bend, and stand up to six hours daily on concrete floors.

**Application**
Prospective students will fill out an application and take a short entrance exam. The information is used in the student selection process. A copy of student’s driving record must be submitted.

**Clothing**
Students wear clothing suitable for the job. In the shop, students will wear leather boots, a sleeved shirt, long pants, and safety glasses.

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The Automotive Technology program trains students for entry-level positions in the automotive industry. Students spend 50 percent of their time working in a supervised shop, and the other 50 percent is spent in the classroom studying related theory.

Automotive technicians are in great demand. In the metropolitan area, technicians can earn an annual salary as high as the mid-$60,000 range. Increased high-tech controls are enabling technicians to earn even more!

Through articulation agreements students can earn 12 hours of credit through the University of Northwestern Ohio. Call 304-754-7925 for more information.
PUT YOUR AUTOMOTIVE CAREER INTO GEAR!

Admission Procedures Checklist ✅
Automotive Technology

Do you meet the prerequisites?

☐ Must be 18 years old.
☐ Have a high school diploma or WV-accepted equivalency diploma.
☐ Students must be in good health, able to lift approximately forty pounds, bend, and stand on concrete floors for up to six hours a day.

What to do next

☐ Fill out an application. The registration fee will be deferred until you have been accepted into the program.

☐ Take the TABE (basic skills test) to evaluate your academic (reading, math, etc.) skills. Call the Jill S. Weekly Learning Center to schedule your test. 304-754-9712

☐ Complete your application for Federal Student Aid at www.fafsa.ed.gov. This is a requirement for receiving Federal Financial aid (PELL grant). JRTI school code is (008355).

☐ Meet with the instructor for an interview. Bring a copy of your driving record. You can contact the instructor via email from the Automotive Technology program’s page on our website.

Final steps

☐ The instructor will contact you to inform you if you have met the requirements and have been accepted into the program.

☐ If you have been accepted, you will need to pay the registration fee to reserve your seat in the program.

Financial Aid

Financial Aid information can be found at: www.jamesrumsey.com

JRTI administers the Pell Grant, NOT student loans. Applicants may complete the FAFSA during the enrollment process.

Pell Grant-eligible applicants should contact our Office of Student Services when they receive JRTI acceptance notices so that the financial aid funding can be processed.

304-754-7925

Refund Policy

There is no refund for the registration fee. No refunds are issued after the 10th day of class. No refund is given for textbooks or tools.
Full-Time Adult Classes
10 Week Program
30 Hours of Training Per Week
300 Clock Hours

This 9 week program consists of 3 courses lasting about 3 weeks each. The first few weeks students spend getting familiar handling the tractor-trailer on our 25 acre driving range. Shifting, backing and other basic skills are covered along with defensive driver training. The middle 3 weeks students prepare for their State CDL exam here on our facility. The last 3 weeks are spent in our full size road truck-trailer. Students gain practical road experience driving in various terrains and roadways. Mountain driving, load security, DOT size & weight regulations and trip planning are also covered, as students prepare for their next training experience with a trucking company.

Class hours are 8:00 a.m. to 2:40 p.m. Monday through Friday. Students work in the classroom approximately four hours a week. During class time, the student is given lessons on Federal Motor Carrier Safety Regulations, size and weight requirements, hours of service requirements, cargo securement, inspection procedures, trip planning, CSA 2010, and employer relations.

Because of state support for this program, the cost (approximately $4,000) to students is low compared to programs of this type and quality. In addition, students completing this program have an excellent success rate in passing the state CDL performance exam.

Interviews for potential students are conducted on Wednesdays at 2:00 p.m. at the Driving Range. No appointment is necessary. However, a certified copy of your lifetime driving record is required at the time of the interview. See website for more information.

Student Financial Aid
The Pell Grant is not available for the Trucking Driving program. However, WV students may be eligible for a Higher Education Adult Part-Time Student (HEAPS) Grant.

Length Of Program
9 Weeks, Monday through Friday 8:00 a.m. to 2:40 p.m. with one evening of driving (after dark). CDL test at discretion of State Examiner.

Career Opportunities
The truck driving program boasts a 95% placement rate. The staff at James Rumsey's Truck Driving Program works closely with several companies whose orientation and training programs enable employers to hire entry level drivers. Within two weeks to two months, many employers have students driving full-time as over-the-road tractor trailer drivers.
Do you meet the prerequisites?

☐ Must be at least 21 years of age or 18 with two (2) years’ experience as a licensed driver. If under 21, you may only drive within your state of residence.

☐ Must have no physical impairments that would interfere with their ability to drive a CMV (Commercial Motor Vehicle) as outlined in the FMCSR (Federal Motor Carrier Safety Regulations). Certain medications are also prohibited. You can call the WV DOT @ 304-347-5935 to determine medical eligibility.

☐ Must hold a valid driver’s license in West Virginia, Virginia, Maryland, or Pennsylvania.

☐ Must not have more than six (6) points against your driving record. It is the responsibility of the applicant to furnish a certified original copy of his/her lifetime Department of Motor Vehicle record prior to final acceptance.

☐ Must not have been convicted of any of the following crimes:
    a. Driving while under the influence of alcohol or illegal drugs within the past year.
    b. Transporting drugs.
    c. Leaving the scene of an accident during the year prior to enrollment.
    d. Using a vehicle to commit a serious crime.
    e. Be convicted of a felony offense during the year prior to enrollment.

*Note:* These are minimum CDL requirements. Company hiring policies may be more stringent. It is advisable to discuss personal situations with an instructor.

What to do next

☐ Visit the program any Wednesday at 2:00 p.m. to complete the interview process. You can contact the instructor via email from the Truck Driving program’s page on our website.

☐ Fill out an application and pay the registration fee.

☐ Pass a Department of Transportation approved physical examination and drug screen by a physician of your choice. After passing the physical, a copy must be sent to Charleston along with a CDL application from the DMV.

Final steps

☐ Students will be permitted to begin after the tuition for the class has been paid or arrangements have been verified in writing from a sponsoring agency.

Refund Policy

There is no refund for the registration fee, textbooks or tools.
ACE PROGRAMS

Creative

CULINARY ARTS
ACFEF and ServSafe Certified

Full-Time Adult Classes
11-Month Program
30 Hours of Training Per Week
1215 Clock Hours

The Culinary Arts program teaches the skills necessary to operate a successful food service business. The program incorporates the NRAEF ServSafe Manager curriculum to train students to arrange and run a kitchen in a way that ensures food is prepared, stored and reheated safely, and all federal and state regulations are adhered to. Students take the National Restaurant Association ServSafe® examination for certification.

Learn how the purchasing cycle of a restaurant works, from product and vendor selection to filling orders. Analyze the flow of goods, forecast sales, and control labor and food costs to improve the profitability of a foodservice establishment. Learn what it takes to uphold the professional standards of performance for dining room personnel, including order taking and guest relations.

Of course, the kitchen is the heart of the industry. You will learn fundamental cooking theories and techniques including knife skills, soups, stocks, sauces, glazes, baked goods and pastries, moist heat and dry heat cooking techniques. No meal is complete without beverages. Learn about styles of wine, cocktails, and beers, as well as non-alcoholic beverages from around the world. You will also learn the theory and practice of matching beverages with food, tastings, and organizing beverage service.

Throughout the program, you will develop an online portfolio to showcase your achievements and abilities.

“Cooking is not a job ... it is a way of life.” – Marco Pierre White

Get the ACF advantage.
To get the job you want, you need to prove you're more qualified than the competition. Successful completers of the Culinary Arts program are eligible to test for ACF Certification. This certification shows that you have the knowledge and skills to be valuable in this industry.

Curriculum
Restaurant Management Foundations I
• Introduction to Gastronomy
• Culinary Mathematics
• Safety and Sanitation in the Food service Industry
• Cost Control & Food Purchasing
• Portfolio Development

Culinary Foundations I
• Product & Equipment Knowledge
• Stocks, Soups, and Sauces
• Meat, Poultry, & Seafood Identification & Fabrication
• Cooking Techniques
• Breakfast & Lunch Cookery

Restaurant Management Foundations II
• Supervisory & Management Skills
• Dining Room & Beverage Service
• Culinary Nutrition
• Menu Development
• Internship

Culinary Foundations II
• Baking and Pastry Foundations
• Garde Manger & Charcuterie
• Banquet Cookery
• Cuisines of the World
• Contemporary á la carte Cooking

Courses of Study
9161A Culinary Arts 1
9162A Culinary Arts 2
9163A Culinary Arts 3
9164A Culinary Arts 4
9165A Culinary Arts 5
9166A Culinary Arts 6
9167A Culinary Arts 7
9168A Culinary Arts 8
9169A Culinary Arts 9
9011A Work-Based Integration & Transition

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ACE PROGRAMS

FIRE UP YOUR CULINARY CAREER!

Admission Procedures Checklist ☑
Culinary Arts

Do you meet the prerequisites?
☐ Must be 18 years old.
☐ Have a high school diploma or WV-accepted equivalency diploma.
☐ Must be able to lift up to (approximately) 50 pounds, bend, and stand on concrete floors for up to six hours a day.

What to do next
☐ Fill out an application. The registration fee will be deferred until you have been accepted into the program.

☐ Take the TABE (basic skills test) to evaluate your academic (reading, math, etc.) skills. Call the Jill S. Weekly Learning Center to schedule your test. 304-754-9712

☐ Complete your application for Federal Student Aid at www.fafsa.ed.gov. This is a requirement for receiving Federal Financial aid (PELL grant). JRTI school code is (008355).

☐ Meet with the instructor for an interview. You can contact the instructor via email from the Culinary Arts program’s page on our website.

Final steps
☐ The instructor will contact you to inform you if you have met the requirements and have been accepted into the program.

☐ If you have been accepted, you will need to pay the registration fee to reserve your seat in the program.

Financial Aid
Financial Aid information can be found at: www.jamesrumsey.com

JRTI administers the Pell Grant, NOT student loans. Applicants may complete the FAFSA during the enrollment process.

Pell Grant-eligible applicants should contact our Office of Student Services when they receive JRTI acceptance notices so that the financial aid funding can be processed.

304-754-7925

Refund Policy
There is no refund for the registration fee. No refunds are issued after the 10th day of class. No refund is given for textbooks or tools.
The Electrical Technician course concentrates on the academic, technical, and social skills required to be successful in the residential and commercial field. In addition, students have the opportunity to earn NCCER certification for each skill set mastered. This is also intended to prepare students who wish to attend the second year Electromechanical.

Approximately 60 percent of time is spent in the classroom studying electrical theory and code practices, and 40 percent of time is spent in the shop and lab. Students are required to purchase their own hand tools, a scientific calculator, and safety glasses. The total cost is approximately $800.00.

Opportunities in the Field
There is an increasing demand for skilled electricians who have the knowledge and ability to meet the licensing requirements. The industry is experiencing a shortage of qualified electrical technicians; these positions are among the highest paying and most secure in today’s industry.

Admission Criteria
Health—Electricians are required to work from ladders and scaffolding, lift loads up to 40 pounds, and stand for long periods of time on concrete floors. Students are required to have the strength and physical endurance to accomplish these tasks.

Enrollment—The class is limited to 22 students. Applications are accepted on a first-come basis.

Courses of Study
9001A Electrical Trades I
9002A Electrical Trades II
9003A Electrical Trades III
9004A Electrical Trades IV
9005A Blueprint Reading for Electricians
9006A Industrial and Commercial Wiring
9007A Integrated Electrical Lab
9008A National Electrical Code
9009A Residential Wiring
9010A Rotating Devices and Control Circuitry
9011A Work-Based Integration & Transition

ELECTRICAL TECHNICIAN
NCCER Certified

Full-Time Adult Classes
11-Month Program
30 Hours of Training Per Week
1080 Clock Hours

The Electrical Technician course concentrates on the academic, technical, and social skills required to be successful in the residential and commercial field. In addition, students have the opportunity to earn NCCER certification for each skill set mastered. This is also intended to prepare students who wish to attend the second year Electromechanical.

Approximately 60 percent of time is spent in the classroom studying electrical theory and code practices, and 40 percent of time is spent in the shop and lab. Students are required to purchase their own hand tools, a scientific calculator, and safety glasses. The total cost is approximately $800.00.

Length of Program
11 months per year, with maximum number of days absent must not exceed 6 per year.

Clothing
Students wear clothing suitable for the job. Safety equipment must be worn during lab activities.

Curriculum
The curriculum is divided into four marking periods.

UNITS OF STUDY
In each course of study, students develop problem-solving techniques and participate in hands-on activities.

Electrical Trades I
The Electrical Trades I course introduces the student to the knowledge base and technical skills of the electrical trades industry. It begins with the NCCER Core curriculum, which is a requirement for all Level I completions. The students complete the following modules: Basic Safety, Introduction to Construction Math, Introduction to Hand Tools, Introduction to Power Tools, Introduction to Construction Drawings, Basic Rigging, Basic Communication Skills, Basic Employability Skills, and Introduction to Materials Handling. Students then begin developing skill sets in relation to the fundamentals of Electricity such as Orientation to the Electrical Trade and Electrical Safety.

Electrical Trades II
Electrical Trades II continues to build student skill sets in areas such as Introduction to Electrical Circuits, Electrical Theory, Introduction to the National Electrical Code®, Device Boxes, Hand Bending, Raceways and Fittings, Conductors and Cables, Basic Electrical Construction Drawings, Residential Electrical Services, and Electrical Test Equipment.

Electrical Trades III
Electrical Trades III continues to build student skill sets in areas of Alternating Current, Motors: Theory and Application, Electric Lighting, and Conduit Bending.

Electrical Trades IV
Electrical Trades IV continues to build student skill sets in areas of Pull and Junction Boxes, Conductor Installations, Cable Tray, Conductor Terminations and Splices, Grounding and Bonding, Circuit Breakers and Fuses, and Control Systems and Fundamental Concepts.

Courses of Study
9001A Electrical Trades I
9002A Electrical Trades II
9003A Electrical Trades III
9004A Electrical Trades IV
9005A Blueprint Reading for Electricians
9006A Industrial and Commercial Wiring
9007A Integrated Electrical Lab
9008A National Electrical Code
9009A Residential Wiring
9010A Rotating Devices and Control Circuitry
9011A Work-Based Integration & Transition

Opportunities in the Field
There is an increasing demand for skilled electricians who have the knowledge and ability to meet the licensing requirements. The industry is experiencing a shortage of qualified electrical technicians; these positions are among the highest paying and most secure in today’s industry.

Admission Criteria
Health—Electricians are required to work from ladders and scaffolding, lift loads up to 40 pounds, and stand for long periods of time on concrete floors. Students are required to have the strength and physical endurance to accomplish these tasks.

Enrollment—The class is limited to 22 students. Applications are accepted on a first-come basis.

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Opportunities in the Field
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## Admission Procedures Checklist ✔

### Electrical Technician

<table>
<thead>
<tr>
<th>Step</th>
<th>Instructions</th>
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</thead>
</table>
| **1** | **Do you meet the prerequisites?**  
☐ Must be 18 years old.  
☐ Have a high school diploma or WV-accepted equivalency diploma.  
☐ Electricians are required to work from ladders and scaffolding, lift loads up to 40 pounds, and stand for long periods of time on concrete floors. Students are required to have the strength and physical endurance to accomplish these tasks. |
| **2** | **What to do next**  
☐ Fill out an application. The registration fee will be deferred until you have been accepted into the program.  
☐ Take the TABE (basic skills test) to evaluate your academic (reading, math, etc.) skills. Call the Jill S. Weekely Learning Center to schedule your test. 304-754-9712  
☐ Complete your application for Federal Student Aid at www.fafsa.ed.gov. This is a requirement for receiving Federal Financial aid (PELL grant). JRTI school code is (008355).  
☐ Meet with the instructor for an interview. You can contact the instructor via email from the Electrical Technician program's page on our website. |
| **3** | **Final steps**  
☐ The instructor will contact you to inform you if you have met the requirements and have been accepted into the program.  
☐ If you have been accepted, you will need to pay the registration fee to reserve your seat in the program. |

### Financial Aid

Financial Aid information can be found at:  
www.jamesrumsey.com

JRTI administers the Pell Grant, NOT student loans. Applicants may complete the FAFSA during the enrollment process.

Pell Grant-eligible applicants should contact our Office of Student Services when they receive JRTI acceptance notices so that the financial aid funding can be processed.

304-754-7925

### Refund Policy

There is no refund for the registration fee. No refunds are issued after the 10th day of class. No refund is given for textbooks or tools.
Graduates of the HVAC program are qualified for entry into the Heating, Ventilation, Air Conditioning and Refrigeration installation, service, and maintenance fields. This vast industry offers a diverse selection of career opportunities. Entry level positions include:

- Installation Technician
- Maintenance Technician
- Service Technician
- Control Technician
- Oil Burner Technician
- Air Balance Technician

**Admission Criteria**

Applicant must be a high school graduate or have a GED. Applicant must be in good health and able to lift, bend, and stand on concrete floors for up to six hours a day. No pre-admission test is required. However, students are tested to evaluate current academic skills.

**Course Description**

The major units of study explored in this course focus on building a knowledge base and technical skills in the heating, ventilation, and air conditioning industry. Students have the opportunity to earn NCCER credentials for each skill set mastered. In addition students gain the skills necessary for developing a positive work ethic. The course is divided into 50% hands on and 50% classroom work.

**Tools**

Students are responsible for providing their own tools. Tools cost approximately $1,000.

**Graduation**

In addition to successfully completing the HVAC Technician program, graduate requirements consist of (1) earning the “Universal” technician level Section 608 certification for refrigerant recovery and (2) passing the R-410A Safety Certification Exam, (3) Low GWP Refrigerant Safety Certification, and (4) NCCER credentials. (5) 1215 hours towards their HVAC Technician in Training license.

**Clothing**

Students wear clothing suitable for the job. Students are required to wear work-type footwear and provide their own safety glasses. No shorts or open-toed shoes permitted.

**Curriculum**

The curriculum has been designed to meet industry standards and align with NCCER standards.
- Career Preparation
- Safety
- Leadership Development
- Customer Service
- Introduction to Construction Math
- Hand and Power Tool Basics

**Courses of Study**

9041A HVAC Technician I
9042A HVAC Technician II
9043A HVAC Technician III
9044A HVAC Technician IV
9045A Basic Control Circuits
9046A Air Conditioning Applications
9047A Domestic Refrigeration
9048A Fossil Fuel Heating Systems
9049A Heating Systems
9050A Commercial Air Conditioning
9011A Work-Based Integration & Transition
HEAT UP YOUR HVAC/R CAREER!

Admission Procedures Checklist ✅ HVAC/R

1. Do you meet the prerequisites?
   - ☐ Must be 18 years old.
   - ☐ Have a high school diploma or WV-accepted equivalency diploma.
   - ☐ Must be in good health and able to lift, bend, and stand on concrete floors for up to six hours a day.

2. What to do next
   - ☐ Fill out an application. The registration fee will be deferred until you have been accepted into the program.
   - ☐ Take the TABE (basic skills test) to evaluate your academic (reading, math, etc.) skills. Call the Jill S. Weekely Learning Center to schedule your test. 304-754-9712
   - ☐ Complete your application for Federal Student Aid at www.fafsa.ed.gov. This is a requirement for receiving Federal Financial aid (PELL grant). JRTI school code is (008355).
   - ☐ Meet with the instructor for an interview. You can contact the instructor via email from the HVAC/R program's page on our website.

3. Final steps
   - ☐ The instructor will contact you to inform you if you have met the requirements and have been accepted into the program.
   - ☐ If you have been accepted, you will need to pay the registration fee to reserve your seat in the program.

Financial Aid
Financial Aid information can be found at: www.jamesrumsey.com

JRTI administers the Pell Grant, NOT student loans. Applicants may complete the FAFSA during the enrollment process.

Pell Grant-eligible applicants should contact our Office of Student Services when they receive JRTI acceptance notices so that the financial aid funding can be processed. 304-754-7925

Refund Policy
There is no refund for the registration fee. No refunds are issued after the 10th day of class. No refund is given for textbooks or tools.
PRACTICAL NURSING
Accredited by WV Board of Examiners for Licensed Practical Nurses

**Why the James Rumsey Technical Institute School of Practical Nursing?**

- With a 50 year history, Practical Nursing is the oldest program at JRTI.
- Faculty experience in urgent care, trauma, critical care, pediatric, obstetric, long-term care, management, surgical, and clinical nursing.
- Over $20,000 of recent renovations in new state-of-the-art equipment, including 12 lead EKG, Cardiac Monitor, Realistic Manikins, IV Pump, etc.
- Continued history of high caliber Practical Nursing graduates.

**Where do Practical Nurses Work?**
The opportunities for nurses are vast and encompass virtually every aspect of health care.

- Acute Care Hospitals
- Urgent Care Centers
- Long Term Care
- Physician Offices
- Medical and Surgical Offices
- Emergency Department
- Travel Nurse Agencies
- Rehab Facilities
- Home Health
- Hospice
- Mental Health Facilities
- Correctional Facilities
- Private Duty
- Federal Agencies

**Curriculum**
The curriculum is an 11.5-month program that prepares students to take the national nursing board licensing exam (NCLEX-PN) and become licensed practical nurses. The admission process begins in December; at that time potential candidates contact the Learning Resource Center at James Rumsey to schedule mandatory orientation and entrance exams. Entrance exams take place in late March/April. After passing the entrance exam at the benchmark level, candidates are selected for an interview and, if chosen by the faculty, begin taking classes in July. Financial aid and grants are available for those who qualify.

**Courses of Study**
Students are educated through lecture series, simulated laboratory exercises, and hands-on training at clinical sites. The academic curriculum takes a total of 11.5 months to complete and is divided into two semesters.

- Practical Nursing I
- Practical Nursing II
- Practical Nursing III
- Practical Nursing IV
- Practical Nursing V
- Practical Nursing VI
- Practical Nursing VII
- Practical Nursing VIII
- Practical Nursing IX
- Practical Nursing X

**New for 2021**
ANATOMAGE TABLE
The Practical Nursing program has acquired an $81,000 state of the art 3D virtual dissection and anatomy visualization tool. Students are able to study in a new interactive way.
START CARING FOR YOUR FUTURE!

Admission Procedures Checklist ☑

Practical Nursing

<table>
<thead>
<tr>
<th>Do you meet the prerequisites?</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ Must be 18 years old.</td>
</tr>
<tr>
<td>☐ Have a high school diploma or WV-accepted equivalency diploma.</td>
</tr>
<tr>
<td>☐ A laptop is required.</td>
</tr>
<tr>
<td>☐ Have a transcript of all previous education.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>What to do next</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ Attend a mandatory orientation. Call the Jill S. Weekely Learning Center to schedule your orientation, 304-754-9712.</td>
</tr>
<tr>
<td>☐ Take the TEAS (basic skills test) to evaluate your academic (reading, math, etc.) skills.</td>
</tr>
<tr>
<td>☐ If you scored the desired % on the TEAS, you will receive an interview email.</td>
</tr>
<tr>
<td>☐ Complete your application for Federal Student Aid at <a href="http://www.fafsa.ed.gov">www.fafsa.ed.gov</a>. This is a requirement for receiving Federal Financial aid (PELL grant). JRTI school code is (008355).</td>
</tr>
<tr>
<td>☐ Fill out an application, and pay the registration fee.</td>
</tr>
<tr>
<td>☐ Await an acceptance letter.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Final steps</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ Attend mandatory New Student Luncheon.</td>
</tr>
<tr>
<td>☐ Obtain a medical screening, background check, CPR certification (AHA Healthcare Provider only), drug screen, and provide proof of health insurance. You will receive information during the New Student Luncheon about where and how to have these performed.</td>
</tr>
</tbody>
</table>

Financial Aid

Financial Aid information can be found at: www.jamesrumsey.com

JRTI administers the Pell Grant, NOT student loans. Applicants may complete the FAFSA during the enrollment process.

Pell Grant-eligible applicants should contact our Office of Student Services when they receive JRTI acceptance notices so that the financial aid funding can be processed.

304-754-7925

Refund Policy

There is no refund for the registration fee. No refunds are issued after the 10th day of class. No refund is given for textbooks.
SURGICAL TECHNOLOGY

CAAHEP Accredited

Full-Time Adult Classes
11-Month Program
30 Hours of Training Per Week
1200 Clock Hours

The Surgical Technology program is accredited through the Commission on Accreditation of Allied Health Education Program (CAAHEP). Graduates are qualified to take the national certification exam and, upon passing, earn the title of Certified Surgical Technologist (CST).

Our graduates are eligible to sit for certification by the NBSTSA (National Board of Surgical Technology and Surgical Assisting).

Enrollment
Class enrollment is limited to 12 students.

Attendance
Students are encouraged to be on time and in class every day. The maximum number of absences must not exceed 48 hours per school year.

Curriculum
The Surgical Technology program uses the Association of Surgical Technologist (AST) Core Curriculum. The AST Core Curriculum not only includes a strong knowledge and skills focus, but also incorporates cutting-edge technology and professional affective behaviors—all essential to prepare the students for the field of Surgical Technology.

Courses Of Study
- 9147A Surgical Technology I
- 9148A Surgical Technology II
- 9149A Surgical Technology III
- 9150A Surgical Technology IV
- 9151A Surgical Technology V
- 9152A Intro to Central Supply & Employability Skills
- 9153A Surgical Technology VI
- 9154A Surgical Technology VII
- 9066A Introduction to Health Care
- 9068A Science Clinical Experience
- 9067A Essentials of Addiction and Prevention

Accreditation
Commission on Accreditation of Allied Health Education Programs (CAAHEP)
25400 U.S. Highway 19 North Suite 158
Clearwater FL 33763
Phone: 727-210-2350
Fax: 727-210-2354

Accreditation Review Council on Education in Surgical Technology and Surgical Assisting (ARC/STSA)
6W. Dry Creek Circle, Suite #110
Littleton, CO 80120
Phone: 303-694-9262
Fax: 303-741-3655

Articulation
Students enrolled after August 1, 2021 in the James Rumsey Technical Institute Surgical Technology program will work toward an Associate of Applied Science Degree in Surgical Technology through articulation agreements with either Alderson Broaddus University or Blue Ridge Community and Technical College. The entire program can be completed within four academic semesters.
### Admission Procedures Procedures Checklist 🔄 Surgical Technology

#### 1. Do you meet the prerequisites?
- ☐ Must be 18 years old.
- ☐ Have a high school diploma or WV accepted equivalency diploma.

#### 2. What to do next
- ☐ Fill out an application. The registration fee will be deferred until you have been accepted into the program.
- ☐ Attend orientation and take the TABE (basic skills test) to evaluate your academic (reading, math, etc.) skills. Call the Jill S. Weekley Learning Center to schedule 304 754-9712.
- ☐ Complete your application for Federal Student Aid at www.fafsa.ed.gov. This is a requirement for receiving Federal Financial aid (PELL grant). JRTI school code is (008355).

#### 3. Final steps
- ☐ When you receive your letter of acceptance, follow the steps outlined in the letter.
- ☐ Once you have been accepted, you will need to pay the registration fee to reserve your seat in the program.
- ☐ Provide up-to-date shot record, ppd, tetanus within 10 years, hep b vaccine, physical examination, and proof of health insurance.

### Financial Aid
Financial Aid information can be found at: www.jamesrumsey.com

JRTI administers the Pell Grant, NOT student loans. Applicants may complete the FAFSA during the enrollment process.

Pell Grant-eligible applicants should contact our Office of Student Services when they receive JRTI acceptance notices so that the financial aid funding can be processed.

304-754-7925

### Refund Policy
There is no refund for the registration fee. No refunds are issued after the 10th day of class. No refund is given for textbooks.
Want to know more about what JRTI has to offer and how to enroll? We have several Zoom meetings available each month to discuss your needs and answer questions about our ACE programs.

Sessions are held the second and fourth Thursday each month at 9:00 AM and 6:00 PM. See the schedule for specific dates.

Information sessions are held two days each month at 9:00 AM and 6:00 PM. No registration is required for these sessions. They are for anyone who wants to learn about our programs and how to enroll.

Program instructors will be present on the evenings where they are listed below. If you do not see the program of your choice, it does not mean that you cannot attend orientation that evening. All are welcome each 2nd and 4th Thursday of each month. Please check the calendar below to verify availability.

Orientation is held online via the Zoom app.

www.jamesrumsey.com/academics/adult-programs/ace-orientations/

Our website has information about several financial aid opportunities. Some of these apply to specific programs. You may be eligible for others based on demographics or financial need. Look at what is available and talk to our school counselor after you apply.

Don’t forget to apply for FAFSA and check out College for West Virginia at CFWV.com

www.jamesrumsey.com/admissions/financial-aid/
How Big is JRTI?
We usually have between 400 and 500 students enrolled in our high school programs each year.

Is JRTI Part of the Public School System?
Yes it is. We follow Berkeley County Schools’ schedule and grading system. Students from Berkeley, Jefferson, and Morgan counties attend our programs.

How Much Does it Cost?
JRTI is free to all high school juniors and seniors who reside in Berkeley, Jefferson, and Morgan counties, including home-schooled and private school students.

Can I Still Take Classes at My School?
Most students attend JRTI for half of the school day. Students earn four credits for tech classes each year. Classes are scheduled either in the morning or in the afternoon.

How Do I Get There?
Students enrolled in public school ride their normal bus to their home high school. After reporting to your home high school, you board another bus to JRTI. The same bus returns you to your home high school after class. You will then ride your normal bus home. Home-schooled and private school students may need to arrange their own transportation.

Can I Still Participate in Activities at My High School?
Absolutely! Even for students who attend JRTI all day. You will still be able to participate in your high school’s clubs, sports, band, and prom; you name it! You will still be a student at your school. You will graduate from that school. You will still see your friends, and make new ones from all over the area.

How Qualified are Your Teachers?
JRTI has one of the state’s most qualified and credentialed faculties. All of our teachers are certified by the WV Board of Education and have several years of experience in their field. If you want to be the best, learn from the best!

I’m Going to College. Why Should I Attend JRTI?
The biggest misconception people have about career and technical schools is that students planning to go to college can’t benefit from technical school. They couldn’t be more wrong! All of our programs offer students a leg up over the competition, whether it is on the job or in college. Many of our programs lead directly to a college program. Others offer the practical hands-on side of a discipline that you won’t learn in college.

Wait a Minute, I Heard Tech School Was Only for Students Who Struggle in Their Academic Classes.
Technical school is not an escape from academic studies. JRTI offers an educational experience that combines academic skills with practical hands-on practice, workplace skills, and leadership training. Our job is to prepare you for the demanding world of the 21st Century. All of our programs incorporate math, reading, and writing. The difference is, you will apply these skills in a way that relates directly to your chosen industry.

Attend JRTI All Day
Students who prefer the advantages of attending a small school are able to study the tech class of their choice and complete many of their academic credits all on one campus. JRTI offers the 4 core academic classes for 11th and 12th grades.

These classes are taught by highly qualified teachers who not only stress academic rigor, but also incorporate technical career relevance into the lessons and project based learning. Students, who attend the academic program in addition to their technical class, receive a broader educational foundation.

Many of our highly successful students attend JRTI for technical and academic studies. Students feel unified and a part of the school culture when they attend JRTI for their core academic classes. Additionally students who attend JRTI for both technical and academic classes have more opportunities for participation in technical organizations, field trips, and clubs.

Many of the academic courses offer the opportunity to earn EDGE credits. All you need is a grade of 75 or higher every nine weeks and on the semester exams.
HIGH SCHOOL COURSE OFFERINGS

Not sure which program is for you? We offer 18 programs that cover a broad range of interests. Related programs are organized into 9 career clusters. Explore the options based on what type of work appeals to you.

WHAT DO YOU LIKE TO DO?
Explore programs based on your talents and interests.

I LIKE TO WORK WITH COMPUTERS

INFORMATION TECHNOLOGY
Advanced Information Technology (Informatics) ........................................ 24
Coding, App & Game Design ................................................................. 29
Cybersecurity/Cisco ........................................................................... 30

SCIENCE, TECH, ENGINEERING & MATH
Aerospace Engineering ........................................................................ 25

I LIKE TO BE CREATIVE

ARTS, AUDIO/VIDEO, COMMUNICATIONS
Graphic Design ................................................................................... 35
Multimedia Publishing ...................................................................... 38

HOSPITALITY & TOURISM
ProStart Restaurant Management ............................................... 39

I LIKE TO HELP PEOPLE

HEALTH SCIENCE
Therapeutic Services ....................................................................... 40

Education
Early Childhood Classroom Assistant Teacher ................................. 32

LAW, PUBLIC SAFETY, CORRECTIONS & SECURITY
Emergency & Firefighting Services ................................................... 34
Law & Public Safety (Criminal Justice) ............................................. 36

I LIKE TO BUILD AND REPAIR THINGS

ARCHITECTURE & CONSTRUCTION
Carpentry .......................................................................................... 28
Electrical Technician ......................................................................... 33
Masonry ............................................................................................. 37

MANUFACTURING
Applied Engineering (Robotics) ......................................................... 26
Welding Technology ........................................................................ 41

TRANSPORTATION, DISTRIBUTION, & LOGISTICS
Automotive Technology ................................................................... 27
Diesel Equipment Technology ....................................................... 31

HOW DO YOU APPLY?
Visit our website WWW.JAMESRUMSEY.COM
To fill out the application form. Speak with your guidance counselor to arrange an interview.

DID YOU KNOW...
High school students involved in Career and Technical Education are more engaged, perform better and graduate at higher rates.
81% of dropouts say relevant, real-world learning opportunities would have kept them in high school.
The average high school graduation rate for students concentrating in CTE programs is 90.18%, compared to an average national freshman graduation rate of 74.9%.
More than 70% of secondary CTE concentrators pursued postsecondary education shortly after high school.

*Statistics provided by www.actonline.org

*James Rumsey Technical Institute is not affiliated with any of the colleges or universities listed on the following pages.
Shouldn't high school education look like this?
Each Simulated Workplace classroom acts as a business. Students carry real responsibilities, and take on leadership roles such as supervisors or team leaders. As part of one of these companies, you will:

1. Fill out an application and interview for the class just like a job.
2. Work with the instructor to develop a company name and procedures manual for the class.
3. Establish work teams and an organizational system with students rotating across teams.
4. Create a portfolio to show what you have learned, the credentials you've earned, and the projects you've completed.

Celebrate your accomplishments!
JRTI is an exciting, active place where students regularly work to develop their leadership skills, learn about career opportunities, represent our region in statewide and national competitions, and contribute to the Eastern Panhandle and surrounding area with community service activities. These activities can be expensive. As a public school, we depend on the generosity and support of our community to provide our students with these opportunities.

Please show your commitment to student excellence and career and technical education by contributing to the various fundraisers our students hold throughout each school year. Our educational programs and student organizations benefit greatly from your support. Donations are accepted at the fundraiser events, in the school office, and through our website.
Advanced Information Technology

There is a lot more to the Information Technology field than connecting computers to networks. Our economy and culture are driven by the collection, processing, and exchange of information. We need people capable of handling this increasingly complex task.

Are you a college bound student with strong academic skills? Boost your GPA, while boosting your career! The Advanced Information Technology (Informatics) is the only Advanced Career course offered at James Rumsey Technical Institute. Students in Advanced Career courses are guaranteed weighted credit through West Virginia’s Uniform Grading Policy 2515.

Also, students who complete the program earn the SREB (Southern Regional Educational Board) Certificate of Completion. If you are considering higher education and a career in the IT field, then Advanced Information Technology (Informatics) is the choice for you!

I have gained a lot of knowledge from taking the Informatics course. My methods of learning and technical skills have become stronger. Informatics has not only refreshed my ability to learn, study, and work with databases, but has also enhanced my writing skills. Informatics has presented me with the tools to be the best I can be, and further my education by providing me with Advanced Information Technology skills. — Deborah O’Leary

Major Units of Study
Connecting the Digital World
Designing in the Digital World
Building the Digital World
Managing the Digital World

Example Job Titles
Certified Technology Manager
IT Technician
Certified Information Professional
Certified Data Management Professional

Related College Programs
Information Technology
Blue Ridge CTC, Martinsburg, WV

Computer Information Technology
WVU, Parkersburg, WV

Network Engineering
WVU, Parkersburg, WV

Computer and Information Sciences
Shepherd University, Shepherdstown, WV

Computer and Information Technology
Shepherd University, Shepherdstown, WV
RTI has added a new STEM offering to our already impressive list of high school technical programs. Students can get a jump on their education in engineering and aerospace in our hands-on learning environment. If you’re thinking about pursuing an engineering degree in college or learning about one of the many aerospace industry support positions, don’t miss this opportunity!

The Aerospace Engineering program of study is designed to introduce students to the many aviation careers and further study in aerospace technologies and related industries. The program’s four-course sequence will provide students with the opportunity to apply concepts and principles of atmospheric flight and space flight to authentic situations with an emphasis on propulsion systems, ballistic projectiles, airplane wing design, aerodynamic forces, pneumatic projectiles, and quality management and enhance their knowledge of space through a series of projects that include in-depth research, concept application and prototype development.

**What you will do in this class**
Design, build, and test models and prototypes, produce engineering reports. Sample projects include developing model rockets and gliders.

**Skills you will learn**
The Engineering Design Process (design, build, and test), industry terminology, tools used to make decisions and solve problems, project management, appropriate and effective research, communicate information such as descriptive statistics to various stakeholders.

**Tools you will use**
Computers, Client Assistance Programs, test equipment, and presentation tools.

**Major Units of Study**
- Engineering process
- Wing design
- Propulsion
- Ballistics
- Basic navigation
- Material science

**Weighted Credit**
Students will receive weighted credit for grades earned in this program. Dual credit and/or articulation agreements will be available to successful completers of this program.

**Example Job Titles**
- Aeronautical Engineer
- Mechanical Engineer
- Aircraft/Spacecraft Designer
- Data Processing Manager
- Military Aerospace Engineer

**Related College Programs**
- **Aerospace Engineering**  
  WVU, Morgantown, WV
- **Mechanical Engineering**  
  WVU, Morgantown, WV
- **Physics**  
  Marshall University, Huntington, WV
- **Mathematics**  
  Marshall University, Huntington, WV
- **Space Studies**  
  American Public University System  
  Charles Town, WV
How do you turn metal and plastic into something that makes life better? The world is full of problems waiting for a solution, and solutions waiting to be improved. Engineers are the ones who say “I can find a better way to do that”. Through competition and project management, students in the Robotics program learn how to work as a team to develop solutions to engineering problems. The class is presented with specific challenges, and then students develop solutions. They design and build a robot to perform the tasks presented in the challenge. Team members collaborate to brainstorm, research, and test mechanical designs and programming code.

Students in this program develop the problem solving skills needed to succeed in the challenging fields of computer science and engineering, with the interpersonal and leadership skills to prepare them for project management.

I’m glad I took this class because it has taught me a lot about what goes into being an engineer. Robotics has given me insight into what I want my future career to be, as well as teaching me valuable information I can use in that career. — Jamie Cooper
Every year auto manufacturers release new models. They add more complex computer systems, gadgets, and upgrades of every kind. The race is on to build the most fuel efficient and tech-friendly vehicle on the road. Consumers want their ride to provide modern conveniences and get them where they need to go with as little gas as possible.

As new technologies come along, the amount of skill required to do this work increases. Environmental and economic concerns are increasing the demand for hybrid and electric drive systems. Sharp young technicians are needed who will be able handle these new technologies.

The number of drivers on the road continues to grow. There are over 250 million cars and trucks on the roads in the United States. Every one of those vehicles will need to be repaired at some point. The demand is growing for people who can work on these complex systems and handle the logistics of managing the thousands of parts required to do the work.

The most high-tech device in your house is sitting in the garage.

Mr. Zeger’s automotive class kept me in school, made coming to school enjoyable, and got me prepared for my line of work. — Seth Miller

What you will do in this class
The first year of the program focuses on theory and hands-on practice. During the second year, students are responsible for operating a live shop. With roles such as Technician and Shop Foreman, students diagnose problems and perform repairs on vehicles for real customers.

Skills you will learn
Troubleshooting, repair, and replacement of the various components of all major automotive systems, including the engine, brakes, steering, and suspension systems.

Tools you will use
Hand tools, diagnostic scan tools, 2 and 4 post lifts, brake lathes, hydraulic presses

Example Job Titles
ASE Master Automobile Technician
Service Writer
Shop Foreman
Service Manager
Parts Specialist
Parts Manager
Shop Owner

Related College Programs
Mechanical Engineering and Automotive Design
WVU, Morgantown, WV

Automotive Analysis & Repair
Blue Ridge CTC, Martinsburg, WV

Applied Technologies
UNOH, Lima, OH

Auto Technology
Lincoln College of Technology (formerly NADC), Nashville, TN

Automotive Technician
Universal Technical College(UTI), Exton, PA
Carpentry skills are some of the most useful skills you can have. You can use them to make a good living, or to improve your own home. Use them to start a woodworking hobby. However you apply these skills, you will always be impressed with what you are capable of making.

How would you like to start your own business right after high school? When you turn 18 and have completed this program, you will be able to take the West Virginia Contractors License Exam. You can be your own boss while your friends are still working in fast food.

College is expensive. No matter what your major is, working in the construction trade is a great way to pay for it. You can find work anywhere, and make more during the summer than most college students make in a year.

Start a hobby. Make a living. Pay for college. Own your own business. Build your own house. You can do it all with the versatile and useful set of skills you will learn in the Carpentry program.

"I am glad that I took this class because it prepares you for the future and gives you a skill that you can use in the real world. If you don't decide to go full time with this skill, you can always come back and use to earn a little side money. Also, the teacher was a big factor since we both like to hunt and fish in our spare time." — Johnathan Marsceau

What you will do in this class
Reading blueprints; measuring, cutting, joining, and finishing lumber; installing shingles; building cabinets; and estimating. Students often choose to work on extra projects when time permits. Examples of these projects include archery bows, trophy mounts, plaques, and jewelry boxes.

Skills you will learn
Safety, material handling, framing floors, walls, roofs, stair construction, installing windows and doors, shingles, insulation, drywall, sidings, flooring, cabinets and counter tops.

Tools you will use
Hand tools like framing square, speed square, hammers, and saws. Power tools like a planer, table saw, band saw, drill press, circle saw, drills, and routers.

Major Units of Study
Framing
Roofing
Drywall
Window and Door Installation
Cold-Formed Steel Framing
Exterior Finishing
Interior Finishing

Example Job Titles
Carpenter
Leadman
Framer
Installer
Roofers Contractor
Entrepreneur
Real Estate Developer

Related College Programs
Construction Management
Westwood College, Annandale, VA
Construction Engineering & Management
Virginia Tech, Blacksburg, VA
Civil Engineering
Penn State, Harrisburg, PA
Occupational Safety
Fairmont State College, Fairmont, WV
Architecture & Environmental Design
Morgan State University, Baltimore, MD
CODING, APP & GAME DESIGN

Computer applications impact us in almost every area of our life. In the Coding, App & Game Design class, you will learn to write programs ranging from utilities to applications to games using Python as our primary programming language.

In this two year program, first and second year students work together in teams to develop real projects. Second year students act as project leaders, directing the work and supervising their teams. The environment is designed to make the experience realistically reflect project management in the web design and game development industry. Students learn team building and interpersonal skills to prepare them for leadership roles in their careers. Why just learn how to do the work when you can train to be the boss?

A portfolio is an important tool for getting into a college program or landing a job in this field. Our students develop a portfolio to showcase the work they do on both gaming and applications.

While at JRTI I learned quite a few things consisting of the Python program, team management, time management, and project sizing. It has been a great experience even if there were a few bumps along the way. — Jonah-Xavier Grubb

Skills you will learn
- Python programming
- GUI Design
- Game Design
- animation and graphics
- We’ll also learn some web design and basic Computer Science concepts.
- You will Code, Code and then Code (No block coding in this class!)

Tools you will use
- Notepad ++
- Python
- PyCharm
- PyGame
- Microsoft Office
- Windows PC

Major Units of Study
- Javascript
- HTML5 and CSS3 Coding Validation
- Web Design Concepts
- Web Publishing
- Research Techniques and Design Cycles
- Game Development 2D
- Game Development 3D

Example Job Titles
- Web Designer
- Web Developer
- Application Development
- Game Design
- Game Development
- Sales and Marketing
- Project Management
- Flash Developer
- Javascript Programmer
- Java Programmer

Related College Programs
- Game Software Development
  - Baker College, Allen Park, MI
- Game and Simulation Programming
  - DeVry University, Manassas, VA
- Graphic Design
  - Shepherd University, Shepherdstown, WV
- Audio Developer
  - WVU, Morgantown, WV

What you will do in this class
Explore various technologies used to develop applications, games and utilities, such as a Discord Bot. Design and build interactive applications and games through storyboarding, coding, and graphics development.
The Cybersecurity/Cisco program will prepare you to work in our technology-driven world. Computer technicians, network administrators, and security professionals keep our data safe and maintain the hardware used to run nearly every business on the planet.

Entering the classroom for the first time, I noticed right away that this program was professional. Throughout my first year, I started to gain the knowledge of what the IT field was all about. I realized very quickly, that I wish to continue with a career in IT. Even though what I have experienced so far was challenging, I know that I will succeed with the support from my peers and my instructor. – Ethan McCullough

What you will do in this class
In each course, Cybersecurity/Cisco students will learn technology concepts with the support of interactive media and apply and practice this knowledge through a series of hands-on and simulated activities that reinforce their learning:
- Students complete a basic procedural lab, followed by configuration, implementation, and troubleshooting labs.
- Cisco Packet Tracer activities allow students to model and analyze routing processes that may be difficult to visualize or understand and practice their skills within simulated networks.
- Quizzes, skills assessments, chapter exams, and practice exams provide feedback as students advance through the curriculum.

Skills you will learn

Learn by doing. It’s faster, easier to remember, and you won’t get bored.

Tools you will use
CISCO1941/K9 Integrated Services Routers Generation 2 (ISR-G2)
HWIC-2T Serial WAN Interface Cards
WS-C2960-24TT-L Cisco Catalyst switches
Linksys EA Series routers (2700, 3500, 4500) or equivalent
Assorted Ethernet and Serial cables and hubs
Computer Terminal

Example Job Titles
Chief Information Officer
Computer and IT Systems Manager
Customer Support Specialist
Data Center Support Specialist
Network Administrator
Network Systems Engineer
Network Service Technician
Database Administrator
Desktop Support Manager

Related College Programs
Cyber Security
Blue Ridge CTC
Information Technology
Blue Ridge CTC
Computer Information Technology
WVU Parkersburg
Information Security Major
WVU Parkersburg
Computer Engineering Comprehensive
Shepherd University
The power of diesel engines in tractor trailers and trains gets our products to market. The reliability of diesel drives the farm equipment that harvests those products, and it's the fuel efficiency of diesel that's making it a popular alternative for pickup trucks and even the family car.

Diesel technicians keep America's workhorses running. Whether you're operating a piece of heavy equipment or hauling it to the job site, you need a diesel technician who can get the work flowing again when things go wrong. It doesn't matter if it is a small contractor's only pickup truck or a large company's entire fleet, you can keep them in business as a diesel tech.

Working on diesel engines can be a big job, literally. These aren't the puny engines you're probably familiar with. A truck engine is six times the size of what you'll find in a car. A job that size requires big tools. Diesel techs need to be able to handle the physical demands of this type of engine repair work.

Diesel is the workhorse of the transportation industry.

Example Job Titles
- Mechanic
- Diesel Mechanic
- Bus Mechanic
- General Repair Mechanic
- Diesel Technician
- Truck Mechanic
- Service Technician
- Preventive Maintenance Technician

Related College Programs
- Automotive Technician
  Universal Technical College (UTI), Exton, PA
- Applied Technologies
  UNOH, Lima, OH
- Diesel Technology
  WyoTech, Blairesville, PA
- Aviation Maintenance Technology
  Pittsburgh Inst. of Aeronautics, Pittsburg, PA
- Auto Technology
  Lincoln College of Technology (formerly NADC), Nashville, TN

A great class. You start with fundamentals, and go through the whole truck. The class also teaches you all aspects of the industry. Without this class, I don't know what I would be doing after high school.
— Jacob Golden

What you will do in this class
Use a combination of online and classroom work to study diesel theory. In the shop, you will learn the hands-on skills to apply the theory, and tune-up and troubleshoot various vehicles including trucks, construction, and farm equipment.

Skills you will learn
- Identification, disassembly, cleaning, inspection, and rebuilding of all major components of a diesel engine

Tools you will use
- Hand and power tools, precision measurement tools, and laptops used for troubleshooting

Major Units of Study
- Fundamentals of Diesel Equipment
- Diesel Engine Components
- Diesel Support Systems
- Electronic Engine Controls
EARLY CHILDHOOD
CLASSROOM ASSISTANT TEACHER

Would you describe yourself as both creative and nurturing?

Students will use creative and critical thinking skills to complete tasks that are comparable to tasks of a child care professional.

Students get to participate in the growth and development of children in our on-site preschool classroom. Students will spend an hour a week minimum working with the children and helping them with their daily tasks.

I am glad that I have been able to experience and understand that children learn in different ways and need a variety of supportive techniques for them to learn best. I am also pleased that I have learned developmentally appropriate ways to handle less than ideal behaviors that will better guide children to make appropriate choices. Through my experience in this class I have built a tool-box of ideas and techniques to use in my future when I work with children. — ReAnne Catlett

What you will do in this class

Students develop activities for children, problem-solve situations that may come up between caregiver and parent, caregiver and child, or caregiver and coworkers. We also complete projects to raise awareness of developmental concerns related to child development.

Create bulletin boards and work on portfolios that showcase your best work.

Work with the children for a minimum of an hour a week. Dance, paint, and play games outside!

Students have a say in how our learning experiences happen, and brainstorm ideas on how to make education better for others. The group-work students do in class is very important, which follows the concept – “it takes a village to raise a child”.

Tools you will use

Cricut/computer, glue, tape, paint, household materials like vinegar and baking soda for volcanos or cornstarch and water for goop, shaving cream, food coloring, kool-aid, and lesson plan resources like Mailbox Yearbooks

Consider a career if you are nurturing, patient, and have the ability to problem-solve. You must be a quick thinker and a multi-tasker. Talking to parents must not intimidate you. Being a child care professional is challenging, exciting, fun and entertaining. It is a new experience every day, some days may be a struggle so you definitely need to have a passion for it.

Major Units of Study

Universal precautions, ethics, physical development, social-emotional development, language development, learning through play, and developmental theory and appropriate practices

Example Job Titles

Child Care Worker
Licensing Specialist
Teacher
Aide

Students in this class may also go on to careers in social work, child advocacy, early intervention, speech and language pathology, special needs, curriculum development, children’s entertainment, etc.

Related College Programs

Occupational Development
Blue Ridge CTC, Martinsburg, WV

Elementary Education
Shepherd University, Shepherdstown, WV
WVU, Morgantown, WV
Fairmont State University, Fairmont, WV
Concord University, Athens, WV
Shenandoah University, Winchester, VA
George Mason, Fairfax, VA
High School Programs

ELECTRICAL TECHNICIAN

NCCER Certified

Where would we be without power?

Practically everything runs on electricity these days. The number of electronics used in offices and homes is growing rapidly. The demand for power is higher than ever. This is a great time to be an electrician!

Our Electrical Technology program will give you a huge head start in the industry. Students who complete the two year program are eligible to take the WV Electrical Journeyman's Test. Those who enter the industry without this training have to work in the field for two years before they can test for this license.

Completers of this program are also eligible to continue their education after high school in JRTI’s Electromechanical Technology program (page 12). This opens up career options in the industrial maintenance field, putting you in very high demand in an area full of industrial plants like the four-state region.

Want more options? Training in this program will give you a strong foundation to build on if you want to pursue an electrical engineering degree in college.

“I thoroughly enjoyed this class. I appreciated not only the hands on parts of the class, but the theory parts of the class too. I believe this class is preparing me very well to go into the workforce as an electrician, and I look forward to taking the second half of this class next year.” — Noah Hose

What you will do in this class
Install and troubleshoot residential and commercial electrical circuits, run wiring, cut and bend conduit, test circuits, install breaker boxes and lighting fixtures.

Skills you will learn
Installation of residential and commercial receptacles, lighting circuits, electrical services, and EMT PVC RIGID and MC CONDUIT, Calculating current, resistance, voltage, and impedance using Ohm’s law.

Tools you will use
hand tools, electrical drills, saws, various types of conduit benders, and multi-meters

Major Units of Study
Safety
Electrical Theory
Residential Wiring
Commercial Wiring

Example Job Titles
Electrician Apprentice
Electrician Journeyman
Electrician Master
Entrepreneur
Electrical Maintenance Technician
Lineman
Industrial Electrician
Installation Technician

Related College Programs
Electromechanical Technology
JRTI, Martinsburg, WV
Pre-Engineering
WVU, Morgantown, WV
Mechanical Engineering Technology
Fairmont State, Fairmont, WV
Electrical Distribution Technology
Blue Ridge CTC, Martinsburg, WV
In an emergency, there is no time for hesitation and no room for mistakes. Do you have what it takes? Firefighters and Emergency Medical Technicians come to the rescue when we need them most. You must be brave, confident, and cool under pressure. This is not a career for the timid.

Does that mean that this is only for adventure seekers who love staring disaster in the eye? Certainly not. An ounce of prevention is worth a pound of cure after all. Safety prevention specialists and arson investigators are just as important as the people fighting the flames and pulling victims out of wrecks.

The Emergency Services program will give you the opportunity to explore these options and find out where you fit. With simulated situations, including a “live” burn exercise, you will get to live out a realistic emergency. You will learn as much about yourself as the industry.

Being at James Rumsey in the emergency services program has been challenging, but a great experience. I have enjoyed this program because it has helped me understand what it means to serve my community. I would recommend this program to anyone. — Kendall Barrett

What you will do in this class
Experience a “live” burn, learn how to save a life, cut a apart a vehicle, climb ladders safely, learn to operate and maintain all types of fire equipment.

Skills you will learn
Extrication, Ventilation, Prevention, CPR, First Aid, Radio Protocols, Safety Inspection, Hand Signals

Tools you will use
Firefighter Gear (Pants, Boots, Gloves, Coat, Helmet, Air Pack), Axes, Hoses, Fire Extinguishers, Defibrillator, Ambulance, Fire Truck, Spreader-Cutter, Crowbar

Major Units of Study
Fire Science Technology
Firefighter 1
Firefighter 2
WV EMT

Certificates You Can Earn
NFPA 1001 Firefighter 1& 2
AHA Basic Life Support for Health Care Workers
NIMS 100, 200, 700 and 800

Example Job Titles
Firefighter
EMT
Health Care Provider
Fire Officer
Fire Investigator
Military Firefighter
Paramedic
Safety Officer
Haz-Mat Specialist

Related College Programs
Fire Prevention and Safety Technology
Blue Ridge CTC, Martinsburg, WV

Fire Science / Fire-fighting
Kaplan University, Hagerstown, MD

Occupational Safety
Fairmont State University, Fairmont, WV

Safety Management
WVU, Morgantown, WV

FF1, FF2, AHA CPR, WV EMT-B, EVOC, and Haz-Mat Certified
So, why do schools teach us how to communicate verbally and with the written word, but not visually? Is it because it takes a Graphic Designer to do it well?

What is Graphic Design? Graphic Design is about solving problems visually. A Graphic Designer uses text, illustrations, symbols, photography, textures, colors and letterforms to create print and web-based design for a large variety of clients.

Not only did James Rumsey Technical Institute give me great memories and wonderful friendships, it also gave me the leadership qualities and self confidence that I lacked before attending. James Rumsey has opened up my future in so many ways that I can now sleep a little easier knowing my future is brighter. I will be grateful for my opportunity to learn at such an advanced technical institution for the rest of my life. — Victoria Grace

**Major Units of Study**
- Fundamentals of Illustration
- Illustration
- Fundamentals of Graphic Design
- Graphic Design Applications

**Example Job Titles**
- Graphic Designer
- Desktop Publisher
- Print Shop Employee
- Screen Printer
- Sign-Shop Employee
- Photographer
- Industrial Designer
- Web Designer
- Medical Illustrator
- Computer Animator

**Related College Programs**
- Graphic Design
  - WVU, Morgantown, WV
- Graphic Design
  - Shepherd University, Shepherdstown, WV
- Graphic Design
  - Art Institutes International, Pittsburgh, PA
- Game Art & Design
  - Art Institutes International, Washington, DC
- Digital Arts & Design
  - Full Sail University, Winter Park, FL
The field of criminal justice offers some very exciting and rewarding career opportunities. With new breakthroughs in forensic technology and an ever-evolving domestic and international Criminal Justice landscape, it’s almost guaranteed that a career as a law enforcement or criminal justice professional will be anything but boring. There is an ever expanding list of criminal justice and law enforcement career opportunities that welcome individuals with diverse educational and professional backgrounds.

Are you interested in serving and protecting as a uniformed officer on the street, solving crimes with clues at the scene, or defending the innocent in a courtroom? You will learn how to apply your talents to these various specialties in the Criminal Justice program.

Criminal Justice is challenging and rigorous. A strong academic background is recommended for students interested in applying for this program.

“A society is defined by how it defines justice.”

The Law and Public Safety class gave me so many opportunities to gain real-life, hands-on experience in the courtroom and with many experts in the field. It led me to internships, lifelong professional networks, and ultimately gave me a jump-start to my career. The best part was the friendships and memories I got to make along the way. — Caitlyn Kinsey

What you will do in this class
Participate in debates over legal and ethical issues, learn and practice proper arrest procedures, operate a police car and conduct traffic stops, become a member of a CSI team and investigate staged crime scenes, participate in mock trials and intern in a criminal justice related field.

Skills you will learn
Tactical communication, proper arrest procedures, crowd control, traffic scenarios, situational responses, crime scene investigations, and court proceedings

Tools you will use
Duty belt with handcuffs, training firearm, flashlight, radio, police patrol car with radio, sirens and lights, uniform, crime scene kit with camera, evidence collection containers, sketching materials, measuring devices, computers, and mock court room.

Major Units of Study
Intro to Criminal Justice
Intro to Law Enforcement
Crime Scene Investigation
Criminal Law

Example Job Titles
Police Officer
State Trooper
Game Warden
Detective
Crime Scene Investigator
FBI Special Agent
DEA Agent
Secret Service Special Agent
Border Patrol Agent
Correctional Officer

Related College Programs
Criminology
WVU, Morgantown, WV
Criminal Justice
Blue Ridge CTC, Martinsburg, WV
Administration of Justice
HCC, Hagerstown, MD
Criminal Justice
Marshall University, Huntington, WV
General Law
George Mason University, Arlington, VA
What a mason builds lasts forever. It is an ancient trade that requires physical strength, stamina, and lots of skill. If you like making things with your hands and working outdoors, this is a rewarding career that pays very well.

Masons are some of the highest paid workers in the construction industry, and we need more. The demand for masons is projected to grow by 34% by the year 2022. Skilled masons can work anywhere in the world. This gives you the freedom to pick the job you want, and the job security to keep it as long as you want.

Students in this class gain practical experience working on several projects, including jobs for the school and the community. You will build things that will still be in use when your grandchildren are in high school.

Students interested in pursuing careers in the construction field, like Architecture or Construction Management, will find the hands-on experience of the Masonry program very helpful.

Masons built the Great Pyramid of Giza, Stonehenge, and the Great Wall of China.

I like masonry, because it's a great trade and a lot of fun. I've had a blast this year doing projects in the shop, as well as throughout the school. — Trevor Dunkelberger

I like working with my hands and building things. I also like spending at least 80% of the time in the shop it's much better than sitting in a classroom all day. — Bruce Haynes

What you will do in this class
Lay brick, block, and stone, finish concrete, and set tile on live projects as well as practice projects.

Skills you will learn
Job preparation and layout, laying masonry units to a line, building masonry leads, mixing mortar, cutting brick and block, estimating

Tools you will use
Trowel, wheelbarrow, cement mixer, mallet, chisels, hammer drill, shovel, tape measure, plumb line, wet saw

Major Units of Study
- Introduction to Masonry
- Masonry Tools and Equipment
- Measurements
- Drawings and Specifications
- Mortar
- Masonry Units
- Installation Techniques

Example Job Titles
- Laborer
- Apprentice
- Bricklayer
- Stonemason
- Concrete Finisher
- Tile Setter
- Plasterer
- Foreman
- Project Manager
- Structural Engineer

Related College Programs
- Construction Management
  Westwood College, Annandale, VA
- Construction Engineering & Management
  Virginia Tech, Blacksburg, VA
- Civil Engineering
  Penn State, Harrisburg, PA
- Occupational Safety
  Fairmont State College, Fairmont, WV
- Architecture & Environmental Design
  Morgan State University, Baltimore, MD
The goal of communication is to inform and entertain. In the communications industry today, you need to do both. Students in this program get hands-on experience with telling stories across multiple media.

Find the stories you want to tell through journalism and creative writing. Make your stories more engaging with design, photography, and video. Then publish them in print, the web, and on mobile devices. Get your work seen through online and social media marketing. Do all this in Multimedia Publishing at JRTI!

Work for someone else, or build your own brand and self-publish. Build an exciting future in the communications industry with your creativity. The opportunities are greater than ever for those who have the skills to capture an audience’s attention.

I am so happy to have taken this class because my teacher is able to explain things in a way that is exciting and easy to understand. He is a very fun teacher, and always open to learning from us as much as we learn from him. He believes that every student has creativity and with the right guidance and skills learned here you will be able to do whatever you want in life. This class gives many opportunities and prepares you for more than anyone can imagine. Everything I have learned and built on couldn’t be done without Mr. Morgan. — Caroline Knight

**What you will do in this class**
Shoot portrait, product, and macro photography. Design products to be sold in the school's online store. Create multimedia content including video, audio, and animation. Write blog articles. Design and print jobs for the school including T-shirts, raffle tickets, and the JRTI yearbook. Build a website for your portfolio to present your work.

**Skills you will learn**
Photography, Recording and Editing Video and Audio, Basic Motion Graphics and 2D Animation, Media Writing, Graphic Design, Web Design, and Screen Printing T-shirts

**Tools you will use**
DSLR cameras, computers with Adobe Creative Cloud software, laser and inkjet printers, laminator, bindery tools, silkscreen press

**Major Units of Study**
Fundamentals of Media Writing
Introduction to Visual Communication
Digital Photography
Information Graphics
Videography
Cross-Media Publishing

**Example Job Titles**
Photojournalist
Production Assistant
Videographer
Editor
Digital Media Specialist
Social Media Marketer
Graphic Artist
Animator
Web Designer

**Related College Programs**
**Communication Studies**
WVU, Morgantown, WV

**Online Journalism**
Marshall University, Huntington, WV

**Interactive Design for Media**
WVU, Morgantown, WV

**Communication and New Media**
Shepherd Univ., Shepherdstown, WV
There are tons of television shows about cooking and baking competitions. Cooking professionally requires skill, creativity, and the ability to work under pressure. What you see on those shows are chefs pushing those qualities to the limit. They are able to create works of art despite the strict limitations of the contest.

The key to their success is how they manage their team. Strong leadership, cooperation, and communication are what win those competitions, not the food. The menu is nothing without proper execution. The kitchen staff have to work together smoothly for it to work. Under the chef’s leadership, each person acts as a critical part of a well-oiled machine.

Restaurants don’t sell food. They sell a dining experience. Patrons pay for service and atmosphere just as much as what is on the menu. Again, every member of the staff plays an important role in making that experience the best it can be.

Learn to use creativity, leadership, and a love of food to turn your ideas into great dining experiences.

I have been able to obtain a good grasp of the industry learning everything from baking cakes to braising meats. I have been able to experiment with foods new to me and of different cultures. ProStart gives an important work-based experience of the industry. — Lee-Ann Frye

**What you will do in this class**
Participate in a simulated hotel workplace, and be given the responsibilities and tasks that are performed daily by hotel employees and management. Create, plan, cost, and execute menus, caterings, special events and run the class like a functioning kitchen, restaurant, cafeteria or food service establishment. Put your skills to the test in Statewide and National level competitions.

**Skills you will learn**
Cutting and chopping techniques, cooking and baking fundamentals, menu preparation, costing, event planning

**Tools you will use**
Kitchen knives and utensils, food grinders and processors, small mixers, oven, grill, salamander broiler

**Who doesn’t wish they could do what a chef can do?**

**Major Units of Study**
- Safety & Sanitation
- Culinary Fundamentals
- Culinary Math
- Baking & Pastry
- Nutrition
- Menu Development
- Garde Manger
- Breakfast Cookery and Meat
- Poultry and Seafood Identification & Fabrication

**Example Job Titles**
- Research Chef
- Executive Chef
- Food & Beverage Director
- Beverage Manager
- Dietitian
- Executive Steward
- Catering Manager
- Food Stylist
- Food Photographer
- Banquet Manager

**Related College Programs**
- Culinary Arts
  - JRTI, Martinsburg, WV
- Baking and Pastry
  - Culinary Institute of America, Hyde Park, NY
- Food Service Management
  - Pierpont CTC, Fairmont, WV
- Food & Beverage Management
  - Johnson & Wales, Providence, RI
- Hospitality and Tourism Management
  - Virginia Tech, Blacksburg, VA
Based on an aging population, and a retiring workforce, the demand for health care workers will remain high for years to come. As the industry of healthcare changes and grows, an increasing number of career opportunities are becoming available inside and outside of the traditional hospital settings.

The Therapeutic Services program, is a two year program that allows the students to experience healthcare through exploring careers and being fully emerged into the world of healthcare.

Students participate in the Health Occupation Students of America (HOSA), a national student organization that provides unique opportunities through competition, leadership development, motivation, and achievement recognition. HOSA members are students interested in pursuing careers in health professions. HOSA is 100% health care!

"Being in the Therapeutic Services program has taught me to be compassionate, empathetic, and unselfish because there are people that have medical conditions so severe that they have no will to live. I have learned that I want to be that soft voice that says, it’s ok, I’m here or the hand they hold when they are in pain. The clinical experiences that I have received during this course will help me in Nursing School, at Shepherd University. I have learned so many techniques that I feel like an experienced professional already. — Kearsten Sanders"

**Major Units of Study**
- History of Healthcare
- Healthcare Systems/Insurance
- Anatomy and Physiology
- Healthcare Safety
- Medical Terminology
- Medical Math
- Human Growth and Development
- Infection Control
- Healthcare Communications
- First Aid/CPR
- Nutrition

**Example Job Titles**
- Nurse
- Doctor
- Therapist
- Counselor
- Veterinarian
- Surgical Technician
- Dietician/Nutritionist
- Physical Therapist
- Insurance Coder
- Laboratory Technician

**Related College Programs**
- Veterinary Science
  - Marshall University, Huntington, WV
- Nursing
  - Blue Ridge CTC, Martinsburg, WV
- Internal Medicine
  - WVU, Morgantown, WV
- Radiology
  - HCC, Hagerstown, MD

**What you will do in this class**
Experience what it’s like to work as a unit, make policy, use critical thinking to discuss ethical or medical scenarios, and educate the community around you. Learn hands-on in working health care facilities during on-site clinicals.

**Skills you will learn**
- Measuring/Assessing and Recording Vital Signs, Nursing Assistant Skills, First Aid, CPR, Medical Terminology, Patient Care such as bathing, grooming, and transporting

**Tools you will use**
- Hospital equipment, stethoscope, scale, first aid kit, personal protective equipment
Where would the auto, construction, ship building, or manufacturing industries be without welders? Whether it’s an M1 Abrams tank or your grandfather’s lawn mower, it can’t be built or repaired without welders.

Welding is a very hands-on skill that requires physical strength, stamina, a strong understanding of the various materials used, and most of all, a meticulous attention to detail. This program appeals to students interested in physical work, but are willing to study the theory necessary to understand the science behind the work.

Welders are in high demand in the U.S. military. If your plans after high school include military service, consider joining with welding skills already on your resume.

Of course, the demand is high in private industry as well. Some of the companies that hire welders are metal repair shops, auto repair shops, construction companies, pipeline companies, aircraft manufacturing plants, shipyards, and marine servicing companies.

"Welding has been a huge interest of mine since my seventh grade shop class. Since then, I have always wanted to learn all the different types of welding that the world may provide in my future endeavors. Mr. Albright has been an excellent instructor and welding educator over the past two years. James Rumsey Technical Institute Welding Technology Program delivers a relevant and rigorous curriculum and skill set, related to today’s industrial welding career market. — Stephen Wilt"

**What you will do in this class**

Read blueprints. Measure, cut, bend, shape, and weld to join sheets, scraps, and tubing of various metals to fabricate parts for construction and equipment repair projects and job.

**Skills you will learn**

Oxyacetylene, shielded metal arc, TIG, and MIG welding, blueprint reading, steel fabrication

**Tools you will use**

Hand tools, cutters, grinders, oxyacetylene, shielded metal arc, TIG, and MIG welders

**Major Units of Study**

Welding Safety
Construction Drawings
Rigging
Oxyfuel Cutting
Plasma Arc Cutting
Air Carbon Arc Cutting and Gouging
GMAW and FCAW-Equipment
Physical Characteristics and Mechanical Properties of Metals
GTAW-Equipment

**Example Job Titles**

Apprentice Welder
Commercial Welder
Journeyman Welder
Certified Pipe Welder
Nuclear Welder
Fabrication Welder
Pipefitter
Production Welder

**Related College Programs**

**Welding Engineer**
WVU Parkersburg, Parkersburg, WV

**Welding Technology**
Bridge Valley CTC, Montgomery, WV

**Industrial Maintenance Technology**
WV Northern CC, Wheeling, WV
If you are currently in high school and are unsure of what you will do after graduation, consider one of the Adult Programs offered by JRTI. You will be able to earn an advanced certification and get a rewarding career started in less than a year. Compared to college, we can get your career going faster and without the crushing debt that comes with most college degrees.
Try out hands-on learning at James Rumsey Technical Institute. Registration begins in March.

The Summer Career Academy provides students about to start 9th and 10th grade with a unique opportunity to explore the growing world of career & technical education. Taking cues from James Rumsey Technical Institute’s Simulated Workplace curriculum, students are invited to participate in activities & live jobs related to some of the free high school courses that the school has to offer. This is a FREE program for students of the tri-county area (Berkeley, Jefferson, and Morgan).

Sign up on our website. www.jamesrumsey.com
NEW WEBSITE
Candidates post resumes and apply for jobs. Employers post jobs and search for candidates.

Our Grads Get Jobs

jobs.jamesrumsey.com
REQUEST TO INSPECT INSTRUCTIONAL MATERIALS

Per Senate Bill 704 W. Va. Code §18-5-27, parents, custodians or guardians may request to inspect instructional materials. Instructional materials are defined as materials adopted by the county board of education, supplemental materials that are used in the classroom, and books that are available for the students to read. The bill permits classroom teachers to require parents, guardians or custodians to request an appointment to inspect the materials. The appointment must be scheduled by the classroom teachers within ten days of the request. Teachers are required to explain how the classroom materials relate to content standards adopted by the state board. If books are required class reading, teachers shall include the books on a class syllabus and make the syllabus available. A complaint form may be requested from JRTI Administration where a classroom teacher fails to comply with a provision of the bill. If the county does not resolve the complaint within seven days, the parent may file a complaint with the State Superintendent of Schools on a form made available by the State Superintendent.
WHAT IS JRTI COMPANY LAB?

JRTI Company LabThe JRTI Company Lab is a student and community Entrepreneur Center. Our purpose is to provide a central location for aspiring entrepreneurs to realize their dream. We believe that the Mountain State is rich with folks determined to build a better future for themselves. “Small” businesses make up 98.9% of the economy in West Virginia and 49.1% of WV employees. Research shows assisting aspiring business owners to navigate through the start-up process successfully, creates a stronger local economy, a committed and more fulfilled workforce and ultimately a more engaged community. JRTI has been part of the community for 50+ years and has a reputation for producing some of the most skilled and hardest working individuals in their respective industries. This program offers the next step in a successful and accomplished career path-business ownership!

WHO CAN BENEFIT FROM THE LAB’S SERVICES?

JRTI Company LabThe JRTI Company Lab offers business advising to aspiring entrepreneurs in the tri-county area. From ideation to ribbon cutting—we are here to help you get started and see your project through! JRTI students (both current and former) as well as residents of the Eastern Panhandle (Berkeley, Morgan & Jefferson) of West Virginia can now enjoy free access to business start-up advising and assistance.

HOW CAN WE HELP YOU?

The JRTI Company Lab offers one-on-one advising, small group workshops, co-working space, and networking opportunities. Your business advisor will guide you, help you set business goals and help you meet them! JRTI Company Lab will utilize the expert faculty on site, WVEDC and SBA/SBDC, State resources and as well as local partners. Clients can expect assistance with start-up business planning, business entity development, budgeting and income projection, product development, marketing, and license and/or permitting requirements. JRTI Company Lab will serve as a central support for any inspired individual interested in beginning a journey to owning their own business.

SERVICES
- Business advising
- Business resources
- Meeting space
- Workshops
- Co-working space

MAKERSPACE
Some of the school’s capabilities may be made available to assist in developing your business idea. This may include product prototyping and design of marketing materials.

ABOUT US
JRTI Company Lab
James Rumsey Technical Institute
3274 Hedgesville Rd
Martinsburg, WV 25403
(304) 754-7925 ext 40520

HOURS
Mon – Fri 8:00 am to 3:00 pm
Our schedule adheres to the Berkeley County Schools calendar including holidays and closures due to inclement weather. Services are available by appointment only.