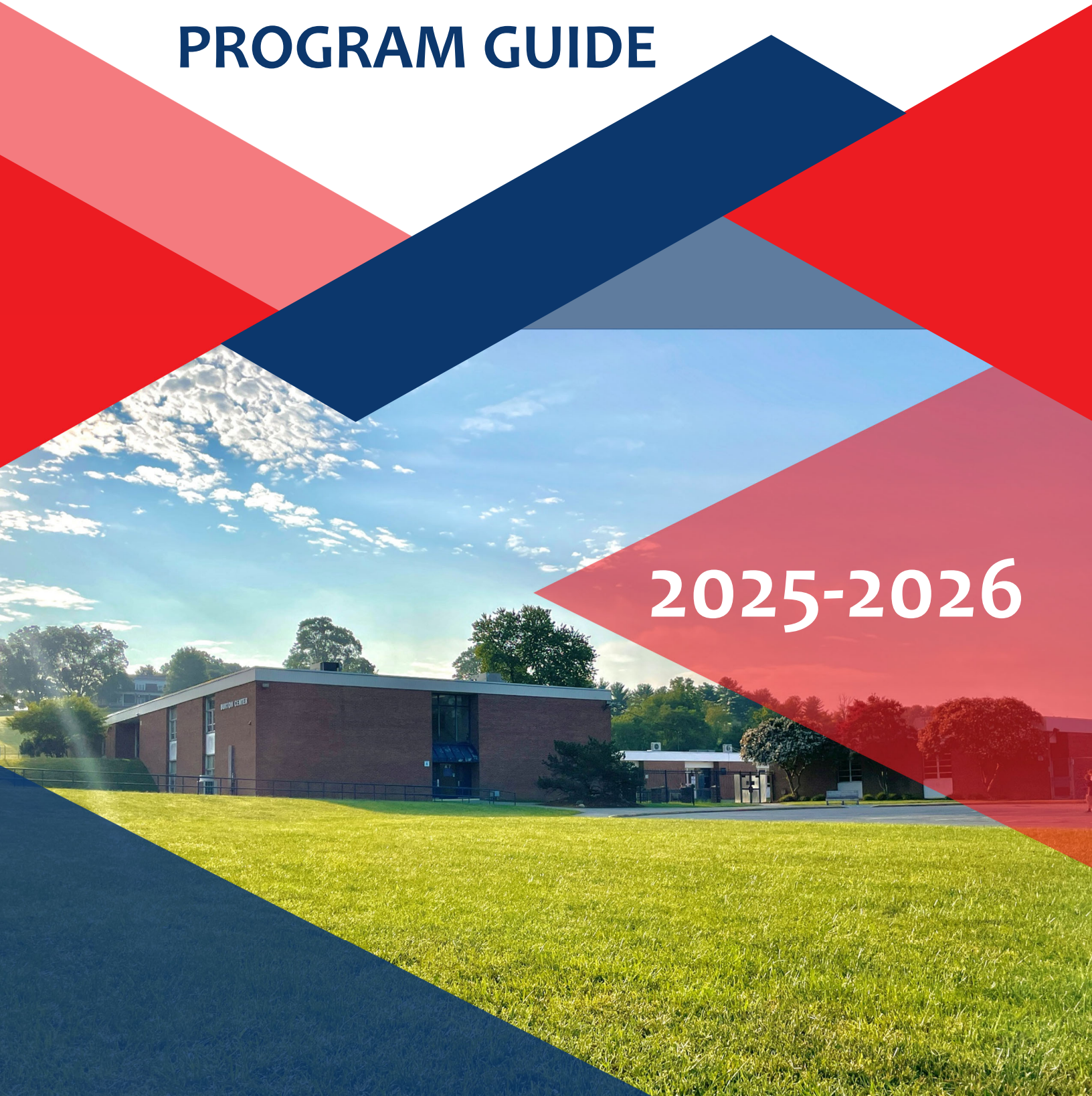




## PROGRAM GUIDE

2025-2026

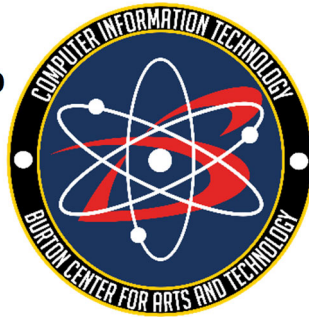




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**STUDENT  
ORGANIZATIONS**

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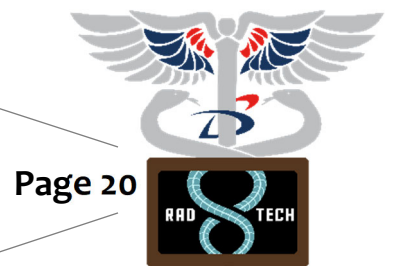
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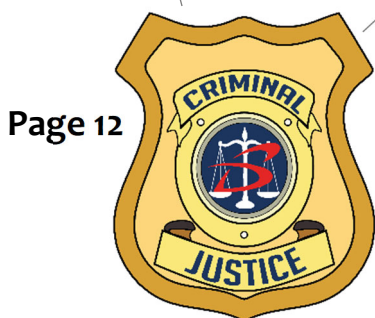
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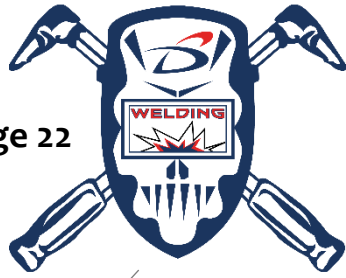
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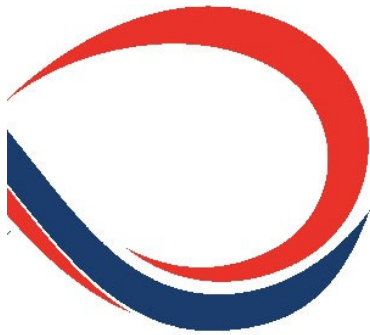
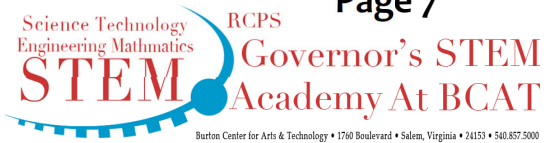


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# INFINITE POSSIBILITIES

## SPECIALTY CENTERS

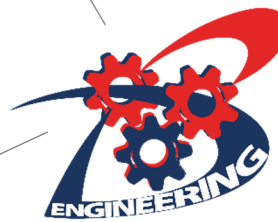
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**MASS  
COMMUNICATION**

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# ABOUT US

## CHRISTIAN KISH



Hello prospective students and families!

It is an honor to be the principal at Burton Center for Arts and Technology (BCAT or Burton), a place of **infinite possibilities**! BCAT is considered a "specialty school" and is full of gifted students and staff. Burton takes applications from students eligible to attend all five Roanoke County high schools (we call them "base schools") and selects them to be placed in classes or programs that are of high interest to them. We take those student interests and aim to propel them to a successful career in their chosen field - having them "Opportunity Ready" for a bright future!

This campus has undergone several transformations since the first building was constructed in 1962, when this place was known as the Roanoke County Education Center. There were only four programs, two of which (Cosmetology and Auto Mechanics) are still around today! Slowly, more buildings and more programs were added. Almost 60 years later, the campus has grown with the addition of two more buildings and has expanded to over 20 areas of instructional and skill specialties. We have also grown from serving approximately 300 students to serving over 900 with our current schedule.

We have students who enjoy our programs for one year in addition to students that stay all four years of their high school career. BCAT is a special place because the students choose to be here with us and because the students are chosen by us to be here. This specialty school has such an impressive diversity of talent amongst our students and staff - and we make it work every single day.

What follows is important information to know before applying to attend Burton. Students at BCAT are instructed in "Super Blocks", meaning their instructional time is greater than a regular block at the high school level. Students taking classes in the morning are here from 7:30am to 10:50am. Students taking afternoon classes do so from 12:25pm to 2:55pm. Students take other required classes (such as math, English, science, social studies, and other electives) at their base school.

All families should be aware that transportation directly from the home to BCAT is not provided. For morning classes, it is the family's responsibility to transport students from home to the base school for a morning shuttle to BCAT. Parents are also welcome to drop their student off in the morning. For afternoon classes, students will be transported after lunch from the base school to BCAT. Special transportation for students with disabilities will only be provided to and from the base school for special education programs. All students can take the shuttle to and from base schools and BCAT.

Students – I highly recommend that you apply to be part of this special place! The deeper learning you will experience, the hard work that will be expected of you, and the friends you will make are all part of what makes Burton such a sought-after school setting. Information on how to apply is available on our website – [bcat.rcps.us/applications](http://bcat.rcps.us/applications).

Sincerely,

A handwritten signature in black ink, appearing to read 'C. Kish'.

Mr. Christian J. Kish  
Principal



### School Slogan

***"One Burton - Infinite Possibilities!"***

### Mission Statement

BCAT educates students to become responsible, skilled 21st-century citizens by using authentic learning experiences and innovative instruction in a multidisciplinary environment.

### Vision Statement

BCAT strives to be a model for educational excellence that prepares diverse, life and opportunity ready individuals for success in their future endeavors.



# APPLICATION PROCESS AND SELECTION INFORMATION

All students must apply to Burton Center for Arts and Technology **by January 15, 2025** using the online application located on the BCAT website. Student applicants to BCAT can choose up to three programs by ranking their order of preference in the online application. Parents/guardians and their child(ren) should discuss each ranking prior to a student submitting an application.

All students applying to BCAT for the 2025-26 school year will be **interviewed** by a member of the BCAT selection committee by mid-February 2025. The **order of program preference** will be confirmed during each student interview. Student order preference is the greatest factor the selection committee considers when deciding on applicants. If a student changes program preference during the interview, it will be the responsibility of the student to inform the parent of that decision. Once all interviews are complete, BCAT school counseling will send out e-mails to all families to confirm program order preference.

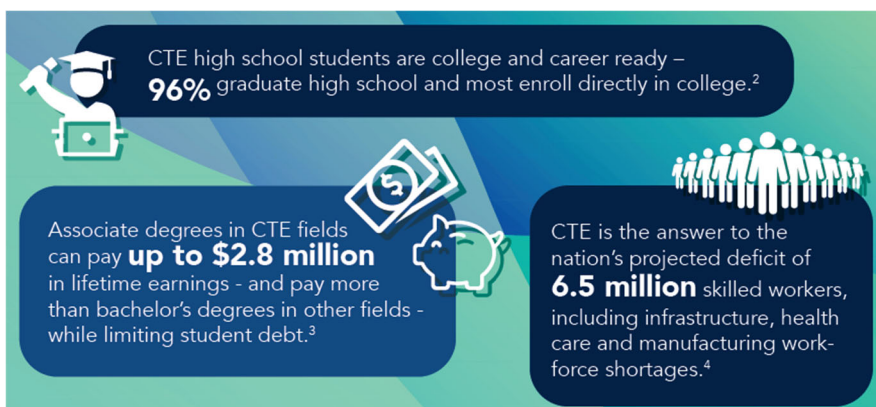
Each BCAT program has different interview questions associated with it, and **each Center at BCAT has additional application criteria** that will be e-mailed to each student applicant.

The **BCAT selection process** involves a thorough review of each applicant to determine placement for the number of seats that are open. This selection process includes a review of grades, attendance, and interview answers. When the BCAT selection committee meets to review applicants and decides on program acceptances, students that meet the criteria to be accepted into two or more programs will be selected for the #1 preferred program to which the student applied. On extremely rare occasions, a student can be accepted into more than one program. BCAT school counseling will speak with any student and family who may fall into this category.

To promote fairness for all applicants, there are several aspects of the selection process that are not revealed. This includes individual feedback on interviews and where an applicant is on the waitlist.

Each year, a number of students ultimately come off of the **waitlists** and are offered a spot in their first, second, or third choice. The counseling staff at BCAT work all spring and summer to fill spots that are vacated.

We highly encourage all applicants who do not come off the waitlist, to apply again the following year.



CTE high school students are college and career ready – **96%** graduate high school and most enroll directly in college.<sup>2</sup>

Associate degrees in CTE fields can pay **up to \$2.8 million** in lifetime earnings - and pay more than bachelor's degrees in other fields - while limiting student debt.<sup>3</sup>

CTE is the answer to the nation's projected deficit of **6.5 million** skilled workers, including infrastructure, health care and manufacturing workforce shortages.<sup>4</sup>

## WHAT IS CTE?

**FIND THIS AND MORE AT  
ACTEONLINE.ORG**

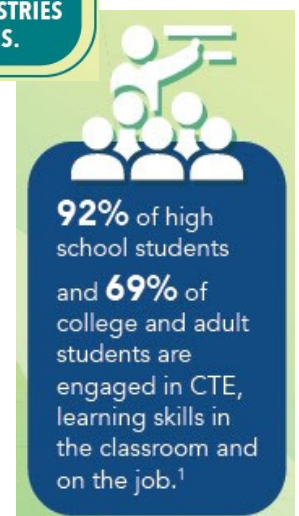
**CTE PREPARES THE  
WORKFORCE ACROSS A  
WIDE RANGE OF INDUSTRIES  
AND OCCUPATIONS.**



CTE is delivered at comprehensive and CTE-dedicated high schools, magnet schools, area technical centers, community and technical colleges and some four-year universities.

**CTE students** earn industry certifications and licenses, postsecondary certificates, associate degrees, bachelor's degrees and higher.

**CTE is good for students, good for businesses and good for communities.**



**92%** of high school students and **69%** of college and adult students are engaged in CTE, learning skills in the classroom and on the job.<sup>1</sup>

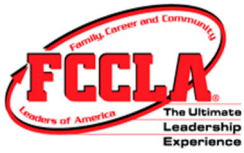
# STUDENT ORGANIZATIONS

## **FUTURE BUSINESS LEADERS OF AMERICA (FBLA)**



Membership in this organization consists of students who are preparing for business careers. Its purpose is to actively engage these students in better preparing themselves for useful occupations "that will bring the greatest good to the greatest number" of people. FBLA offers an opportunity for a broader social life within the school through local activities and through participation in competitive events at regional, state, and national levels.

## **FAMILY, CAREER, & COMMUNITY LEADERS OF AMERICA (FCCLA)**



FCCLA is designed for secondary students enrolled in child care and culinary programs. This student organization promotes leadership and citizenship and helps build character among its members. Early Childhood Education, Teaching Internship, and Culinary Arts students are encouraged to become state and national members and to participate in competitions using the skills they have learned in class.

## **HEALTH OCCUPATIONS STUDENTS OF AMERICA (HOSA)**



HOSA aims to empower future health care professionals to become leaders in the global health community through education, collaboration, and experience. HOSA's purpose is to develop leadership and technical skill competencies through a program of motivation, awareness, and recognition. Valuing learning, leadership, service, and innovation, HOSA students will gain experience in local, regional, state, and national competitions if they qualify.

## **JOBS FOR VIRGINIA GRADUATES (JVG)**



Jobs for Virginia Graduates (JVG) is an affiliate of Jobs for America's Graduates (JAG), a national career association that supports high school students to move from classroom to career through mentoring and the development of soft skills. At Burton, JVG fosters student success in areas of basic adulting skills, time management, goal setting, professional communication, job search/application process, resume writing, interview skills, professional dress and etiquette, soft skills necessary in the workplace, and career planning. JVG is proud to offer Burton students support and leadership opportunities that provide an advantage in tomorrow's competitive job market.

## **SKILLS USA**



SkillsUSA is an organization for students preparing for futures in trade, industrial, technical, and health occupations in our public high schools and post-secondary schools. It provides leadership, citizenship, and communication skills training as part of the curriculum. Skills USA offers prestige and recognition through a national program of awards and contests.

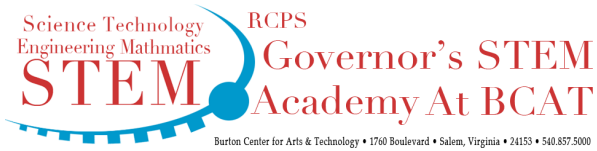
The Virginia Skills USA Championships bring together over 1,000 local and district champions to the state conference to vie for gold, silver, and bronze medallions and other prizes and scholarships in over 80 skill and leadership events.

## **TECHNOLOGY STUDENT ASSOCIATION (TSA)**



TSA is a national career and technical student organization of students engaged in science, technology, engineering, and mathematics (STEM). TSA's intracurricular program includes competitions and leadership activities. As a student organization of 300,000 middle and high school technology and engineering students, TSA provides its members the opportunity to explore a wide variety of STEM career interest areas. All TSA competitions—more than 70 middle and high school events combined—are correlated with national STEM standards to enhance STEM curriculum. Since 1978, more than four million students have participated in TSA.

# GOVERNOR'S STEM ACADEMY



The Roanoke County Governor's STEM Academy at Burton Center for Arts and Technology (BCAT) will develop and expand course offerings for the secondary school population of Roanoke County Public Schools. The offerings emphasize science, technology, engineering and mathematics, project-based learning, critical thinking skills, and credentials that prepare students for high-demand and high-wage careers to meet evolving workforce needs in local, national, and global markets. Business involvement and support is crucial to the STEM Academy. It is through this involvement and support that the STEM Academy gains its advisory board, student internships, and material support.

Students can pursue many dual enrollment opportunities through Virginia Western Community College, which may result in earning credits toward two-year and four-year degrees.

The Governor's STEM Academy at BCAT contains four programs that fall under specific VDOE career clusters:

GOVERNOR'S STEM ACADEMY AT BCAT	VDOE CAREER CLUSTER
CENTER FOR ENGINEERING	SCIENCE TECHNOLOGY ENGINEERING & MATHEMATICS (STEM)
CENTER FOR MASS COMMUNICATION	ARTS, AUDIO/VIDEO TECHNOLOGY & COMMUNICATIONS
MECHATRONICS/ ROBOTICS	SCIENCE TECHNOLOGY ENGINEERING & MATHEMATICS (STEM)
MOTORSPORTS TECHNOLOGY	TRANSPORTATION, DISTRIBUTION & LOGISTICS

## SPECIALTY CENTERS

**Specialty Centers provide rigorous courses for students who have specific interest areas, talents, and career goals.**

The Specialty Centers offer in-depth study not available in other classes, hands-on experiences, and integrated curriculum, enriching experiences, travel opportunities, and internships. All rising ninth-grade students in Roanoke County Public Schools are invited to apply to one or more of the four Specialty Centers. Certain Specialty Center classes in grades ten through twelve will be weighted. Course changes can be made through the end of the first 9-weeks.

### Application Process

- Students may apply to more than one Specialty Center. An application must be completed for each center.
- Students must first fill out the BCAT General Application online by January 15, 2025.
- The Specialty Center application(s) will be emailed to students' school email soon after submitting the general application.
- The Specialty Center applications are due by January 31, 2025.
- Acceptance letters will be sent home by mid-March.
- The application process for the Specialty Centers is competitive. Only the top students who meet the minimum criteria for acceptance in that center will be accepted.



### For More Information on Specialty Centers at BCAT

**General Information:** Christian Kish - Principal, BCAT, 540-857-5000, [ckish@rcps.us](mailto:ckish@rcps.us)

**General Information:** Teresa "Gibby" Gibbons - School Counselor, BCAT, 540-857-5000, [tgibbons@rcps.us](mailto:tgibbons@rcps.us)

**Engineering:** Mark Jones - Supervisor of CTE 562-3900 x10332, [mjones@rcps.us](mailto:mjones@rcps.us)

**Mass Communication:** Joe LeGault - Supervisor of English and RCPS Online 562-3900 x10252, [jlegault@rcps.us](mailto:jlegault@rcps.us)

**Performing Arts:** Richard Elliott - Supervisor of Music and Performing Arts 562-3900 x10253, [relliott@rcps.us](mailto:relliott@rcps.us)

**Visual Arts:** Sara Cubberley - Supervisor of Art 562-3900 x10322, [scubberley@rcps.us](mailto:scubberley@rcps.us)





# AUTOMOTIVE TECHNOLOGY

STEVE HOBACK



## SKILLS TAUGHT

- Basic skills in using hand and power tools safely
- **Automotive systems**, including belts & hoses, brakes, emissions, exhaust, and engine cooling
- **Automotive diagnostics**, including reading a meter, running the alignment machine, and troubleshooting
- **Basic automotive maintenance and repair**, including oil changes, tire rotations, putting a new tire on a rim, and replacing belts, filters, and light bulbs
- **On-the-job training**, working on staff and community members' vehicles



## TO LEARN MORE



## CERTIFICATIONS AVAILABLE / CAREER OPTIONS

**Certifications available:** ASE (Automotive Service Excellence), SP2 Safety and Pollution Prevention certification, EPA 609 Mobile A/C certification, Virginia State Inspection certification, NC3 Meter certification

**Career Cluster:** Transportation, Distribution, & Logistics

**Career Options:** Auto technician, aircraft mechanic, diesel technician, diesel engine specialist, industrial technician, electrical technician, service writer/manager, industry representative



# BUILDING TRADES

KEITH ROBINSON  
TOM SHELTON



## SKILLS TAUGHT

- Basic skills in using hand and power tools safely
- **Electrical:** wiring including outlets and switches, as well as how to set up a breaker box
- **Plumbing:** how to install PVC and copper pipes, how to ensure there are no leaks, and how to install toilets, sinks, and faucets
- **Carpentry/cabinetry:** where you learn how to work with wood to create walls, complete structures, and cabinets
- **Masonry:** working with brick, block, and tile to create brick walls, tile a floor, or build larger structures from concrete block.
- **Real job site** experiences

## CERTIFICATIONS AVAILABLE / CAREER OPTIONS

**Certifications available:** NCCER (National Center for Construction Education and Research), OSHA 10-hour safety training-general industry

**Career Cluster:** Architecture & Construction

**Career Options:** Construction worker, carpenter, electrician, foreman, plumber, dry wall installer, painter

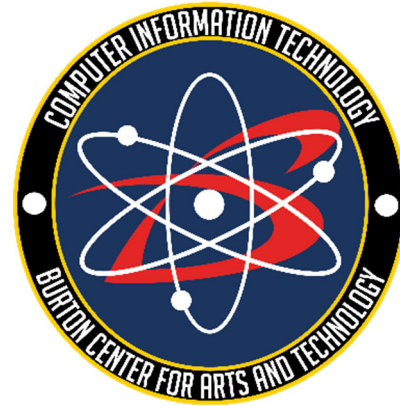
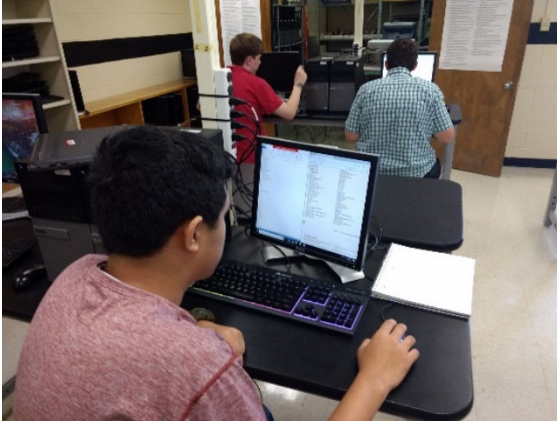
## TO LEARN MORE





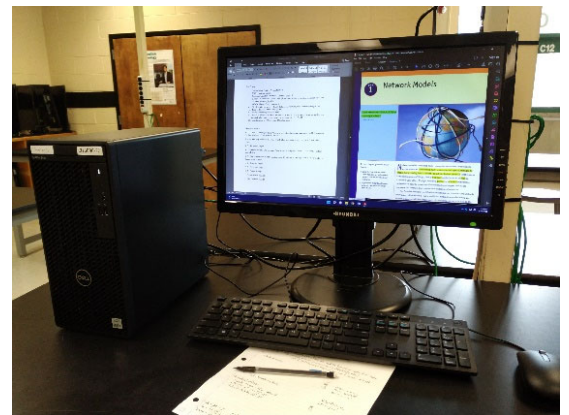
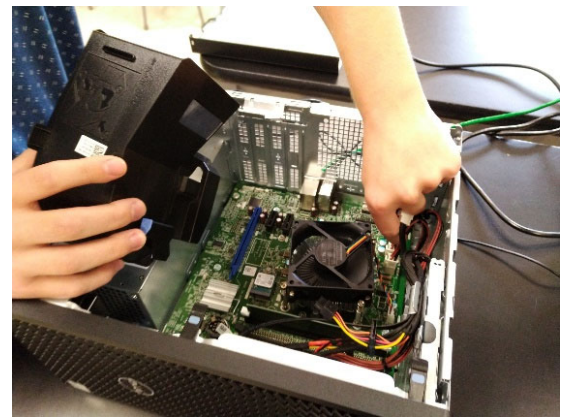
# COMPUTER INFO TECH

MICHAEL FRENCH



## SKILLS TAUGHT

- **Computer components**, such as the CPU, RAM, motherboard, video cards, power supply units, and more
- **Computer peripherals**, like the monitor, printer, keyboard, mouse, and USB drive
- **Operating systems**: installation, maintenance, and upgrades
- **Basic troubleshooting and repair techniques**
- **Networking Concepts (stand-alone, advanced course for jrs and srs only)**: an in-depth look at:
  - Networking hardware
  - Topologies
  - Protocols
  - Troubleshooting



## TO LEARN MORE



## CERTIFICATIONS AVAILABLE / CAREER OPTIONS

**Certifications available:** CompTIA A+, CompTIA IT Fundamentals, CompTIA Network+

**Career Cluster:** Information Technology

**Career Options:** Help desk technician, computer support specialist, computer network engineer, IT systems analyst, IT director, database administrator, information security consultant



# COSMETOLOGY



MARLEE COLES



## SKILLS TAUGHT

- Theory and hands-on experience in a salon environment.
- **Haircutting:** Expert haircuts for all hair types, tailored to your individual style and needs.
- **Hair color:** Transforming looks with hair coloring services, from subtle highlights to bold all-over color.
- **Hairstyling:** From simple blowouts to elaborate updos, learn how to style any hair type and texture.
- **Permanent waving/ relaxers:** Add texture and volume to the hair with chemical texture services
- **Nail care:** Keep your nails looking polished and perfect with manicures and pedicures.
- **Skin care:** Get glowing skin with facials, waxing, and other skin care services.
- **Salon management:** Creating a positive and relaxing experience in the salon.
- This program is only available to sophomores.

## CERTIFICATIONS AVAILABLE / CAREER OPTIONS

**Licensure:** available at the end of year 3 through the VA Cosmetology State Board

**Career Cluster:** Human Services

**Career Options:** Licensed cosmetologist, barber, nail technician, makeup artist, salon manager/owner, skin care consultant, platform artist, brand educator

## TO LEARN MORE



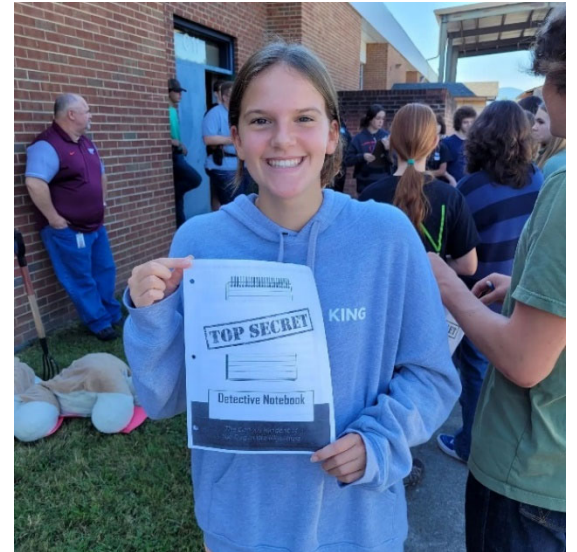
# CRIMINAL JUSTICE

JASON WALLS



## SKILLS TAUGHT

- **Crime prevention**
- **Traffic stops:** traffic laws, DUI checkpoints, pulling someone over, traffic accidents
- **Crime scene investigation:** detective work, evidence handling, victim and perpetrator profiles, behavior and psychology of crimes and those involved
- **American court system & corrections:** court structure, testimony, prosecution and defense of criminal cases
- **Arrest procedures:** arrest and custody procedures, use of force
- **Internship:** available during year 3, 3<sup>rd</sup> 9-weeks, through the Roanoke County Police Department



## TO LEARN MORE



## CAREER OPTIONS

**Career Cluster:** Law, Public Safety, Corrections, & Security

**Career Options:** Police officer, sheriff's deputy, state trooper, game warden, lawyer, judge, FBI agent, probation officer, youth services worker





# CULINARY ARTS

JAMES BRINKLEY



## SKILLS TAUGHT

- **Basic skills:** kitchen tools, kitchen sanitation, and safe food practices
- **Working with food:** menu planning, nutrition, selecting food and spices, food pairing, purchasing, proper storage, cooking techniques, and plating/food presentation
- **Equipment:** using commercial equipment safely, equipment preparation, and cleaning
- **Culinary store:** preparing food, setting up, selling food/drink items, running a cash register, customer service skills (the store is open to Burton students during break)
- Real **catering** experiences, serving staff and community groups

## CERTIFICATIONS AVAILABLE / CAREER OPTIONS

**Certifications available:** ServSafe Food Handler (year 1), ServSafe Manager (year 2)

**Career Cluster:** Hospitality & Tourism

**Career Options:** Prep chef, sous chef, catering staff, restaurant manager, hospitality management, hotel management

## TO LEARN MORE





# EARLY CHILDHOOD ED

AMANDA KINSER



## SKILLS TAUGHT

- **Child development:** developmental stages from birth to age 6, nutrition, special needs, behavior modification
- **Child safety:** physical safety, social & emotional safety
- **Instruction:** how to write basic lesson plans, developmental needs for learning, interacting with young children, resources to support learning
- **Soft skills:** responsibility, maturity, serving as a role model to young children, strong work ethic
- **Internship:** experience with young children in a real daycare or elementary school setting, one to two days per week under a teacher's supervision



## TO LEARN MORE



## CERTIFICATIONS AVAILABLE / CAREER OPTIONS

**Certification available:** Child Development Associate (CDA) through independent study after ECE II.

**Career Clusters:** Education & Training, Human Services

**Career Options:** Early childhood/preschool teacher, elementary teacher, school social worker, school counselor, speech-language pathologist, librarian, child psychologist, childcare center director, school administrator

# EMERGENCY MEDICAL TECH



CRISTA PATTERSON



## SKILLS TAUGHT

- **Basic life support (BLS):** first aid, cardiopulmonary resuscitation (CPR)
- **Airway management:** removing obstructions, providing life-saving interventions
- **Breathing:** ensuring oxygen intake is sufficient, administering oxygen, provide ventilation
- **Trauma:** bleeding control, shock management, treat injuries throughout the body
- **Soft skills:** teamwork, situational awareness, creative thinking, interpersonal skills, navigating challenging situations, scene safety
- **Internship:** Treat REAL patients alongside Roanoke County Fire & Rescue personnel
- Applicants must be 16 years old by Labor Day



## CERTIFICATIONS AVAILABLE / CAREER OPTIONS

**Certifications available:** BLS/CPR, National Registry EMT (NREMT-18 and over), VAEMT (under 18), National Incident Management System (NIMS IS-100, IS-200, IS-700, IS-800, IS-5A), Stop the Bleed, Prehospital Trauma Life Support (PHTLS-BLS), Pediatric Education for Prehospital Professionals (PEPP-BLS), Geriatric Emergency Medical Services (GEMS-BLS), Advanced Medical Life Support (AMLS-BLS)

**Career Cluster:** Health Science

**Career Options:** EMT, Firefighter, Paramedic, Flight Paramedic Safety Officer, Nurse, Physician, Surgeon

## TO LEARN MORE





# GAME DESIGN/PROGRAMMING

JOHN WARF



## SKILLS TAUGHT

- Basic skills in computer programming, coding, & information technology
- **Game design:** the creative side/the vision, game aesthetics, game structure, game rules, character and story development, layout, object placement
- **Game development:** bringing the design to life, create & test, levels, game audio, user interface
- **Game industry:** past, current, future
- **Soft skills:** problem-solving, analytical skills, collaboration



## TO LEARN MORE



## CERTIFICATIONS AVAILABLE / CAREER OPTIONS

**Certifications available:** Microsoft Excel, Excel Expert, Word, Word Expert, Powerpoint

**Career Cluster:** Information Technology

**Career Options:** Game level designer, game tester, character designer, entry level programmer, video game designer, mobile app designer



# INTRO TO NURSING CAREERS



**CARILION CLINIC**



**LAURA SCHOONOVER, RN**



## SKILLS TAUGHT

- **Safety:** body mechanics, handling of medical equipment, legal and ethical concerns
- **Anatomy & Physiology:** body structures & functions, medical terminology, acute & chronic medical conditions
- **Patient care:** basic nursing skills involving activities of daily living, infection control/prevention, human needs & development, mental health/illness, nutrition, emergency care
- **Experience in clinical setting:** 40-hours of hands-on patient care at a local healthcare facility in year 2 of the program
- This program is only available to juniors and seniors

## CERTIFICATIONS AVAILABLE / CAREER OPTIONS

**Certifications available:** AHA First Aid and BLS (year 1), Certified Nursing Assistant (CNA—year 2), EKG Technician (year 2).

**Certificates of Completion:** CPI Non-violent Crisis Intervention & REVIVE! Opioid Reversal

**Career Cluster:** Health Science

**Career Options:** CNA at Carilion Clinic facilities or in the Roanoke Valley, EKG Technician

## TO LEARN MORE

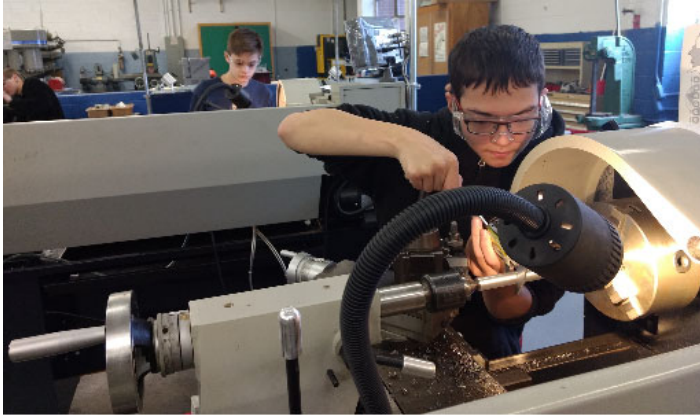


# MECHATRONICS

SHAWN BURNS



Science Technology  
Engineering Mathematics  
**STEM** RCPS  
Governor's STEM  
Academy At BCAT  
Burton Center for Arts & Technology • 1740 Boulevard • Salem, Virginia • 24153 • 540.857.5000



## SKILLS TAUGHT

- **What is Mechatronics?:** combines the areas of mechanical systems, control electronics, pneumatic and hydraulic devices, and electrical systems
- **Basics of machining:** additive and subtractive processes
- **Basics of mechatronics:** pneumatics, hydraulics, electronics
- **Software programs:** CAD and CAM to design and manufacture products
- **Robotics:** basics of automation
- **On-the-job training:** designing and creating products for staff and community members/businesses



## TO LEARN MORE



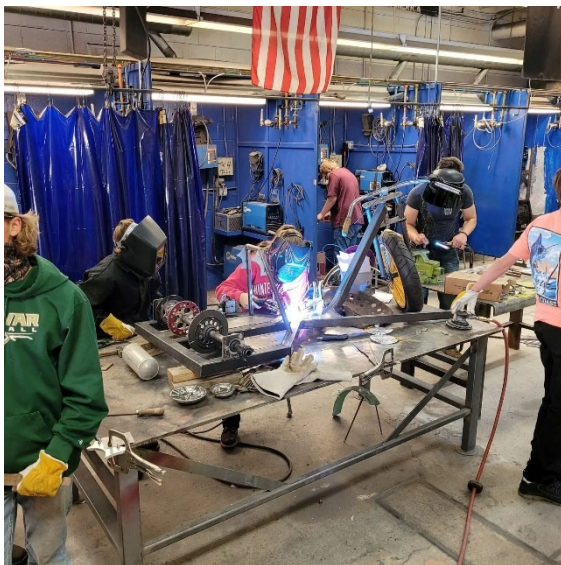
## CERTIFICATIONS AVAILABLE / CAREER OPTIONS

**Certifications available:** NIMS-Level 1 for Machining, NC3 Certification for Introduction to Mechatronics, OSHA 10-hour safety training-general industry

**Career Cluster:** Manufacturing

**Career Options:** CNC machine operator / programmer, mechatronics engineer, automated manufacturing technician, industrial engineering technician, and precision inspector





## SKILLS TAUGHT

- **Tools/machines/skills:** those used to build a racecar from scratch, welding, fabrication
- **Types of vehicles involved:** drag cars, go-karts, street rods, race car trailers
- **Vehicle systems:** chassis fabrication, racecar fabrication, electrical wiring, running brake lines
- **Professional racing:** racing protocols, regulatory compliance
- **Experiences:** possible trip to a racetrack, eligibility to participate with the engine team
- **On-the-job training,** working on student, staff, local business, and community members' projects

## CERTIFICATIONS AVAILABLE / CAREER OPTIONS

**Certifications available:** OSHA 10-hour safety training-general industry, AWS qualification available through the program

**Career Cluster:** Transportation, Distribution, & Logistics

**Career Options:** Race team member, mechanic, welder, fabricator, welding instructor, welding inspector, robotics repairman

## TO LEARN MORE





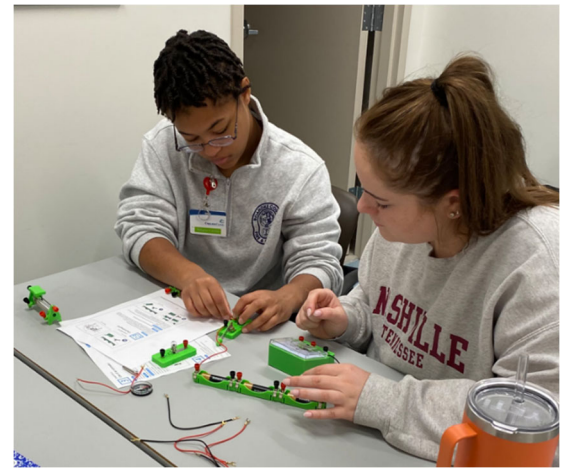
# RADIOLOGIC TECHNOLOGIST

CHERYL CUNNINGHAM



## SKILLS TAUGHT

- Anatomy
- Body positioning
- CPR & AED
- Equipment operation
- Image production
- Medical ethics
- Medical terminology
- Medicolegal issues
- Pathology
- Patient assessment
- Patient communication and interaction
- Radiation safety
- On-the-job training, working with volunteer patients



## TO LEARN MORE



## CERTIFICATIONS AVAILABLE / CAREER OPTIONS

**Certifications available:** Basic Life Support (BLS), including CPR and AED

**Career Cluster:** Health Science

**Career Options:** Limited radiologic technologist, registered radiologic technologist, CT technologist, MRI technologist, ultrasound technologist, radiologic technology educator, management

# TEACHING INTERNSHIP

AMANDA KINSER



## SKILLS TAUGHT

- **Child development and needs:** physical, emotional, social, intellectual
- **Barriers:** to child development and learning
- **Lessons:** how to plan for, prepare, execute, assess, and remediate, SOLs
- **Standards:** of behavior for teachers, attire, ethics, confidentiality
- **Internship:** students spend most of the course shadowing a Roanoke County Schools' teacher
- This program is only available to seniors

## CAREER OPTIONS

**Career Cluster:** Education & Training

**Career Options:** Early childhood/preschool teacher, elementary teacher, secondary teacher, special education teacher, instructional assistant, school administrator, school counselor, college professor

## TO LEARN MORE





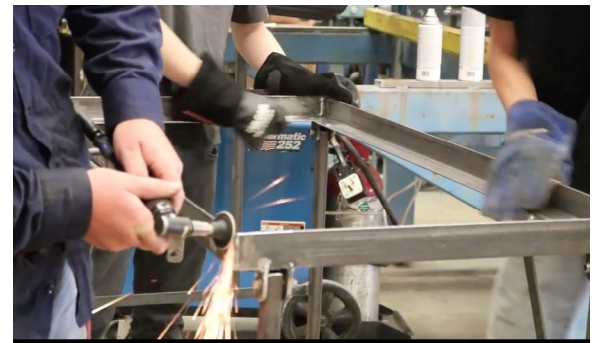
# WELDING

CHRIS OVERFELT



## SKILLS TAUGHT

- Basic skills in using a welder, grinder, plasma cutter, and other tools safely
- **Metal:** Characteristics and the different types
- How to read blueprints and equipment drawings/symbols
- **Welding processes:** oxyacetylene, SMAW, GMAW, FCAW, GTAW
- **Arc cutting & plasma cutting:** software for design, machine safety
- **On-the-job training,** working on staff and community members' projects



## TO LEARN MORE



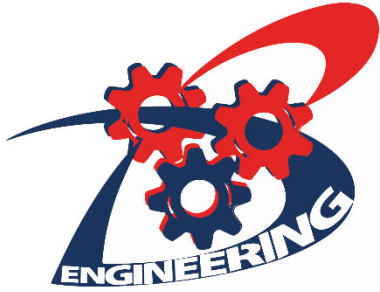
## CERTIFICATIONS AVAILABLE / CAREER OPTIONS

**Certifications available:** OSHA 10-hour safety training-general industry, AWS qualification available through the program

**Career Cluster:** Manufacturing

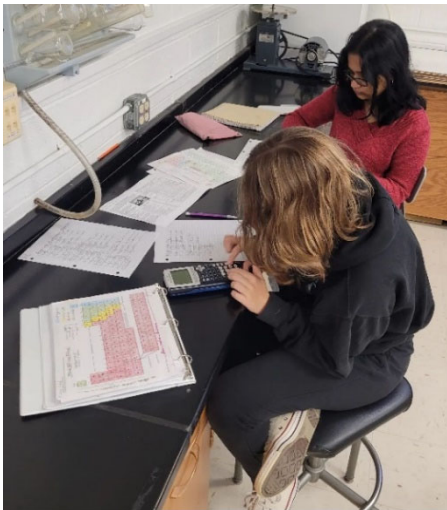
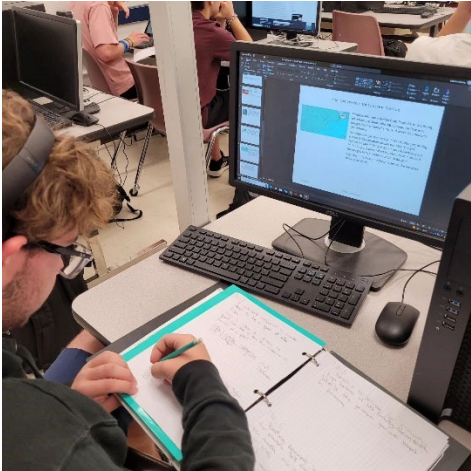
**Career Options:** Construction welder, manufacturing welder, rig welder, pipefitter, ironworker, fabricator, welding instructor, shipyard welder, military welder, underwater welder

# CENTER FOR ENGINEERING



**SARAH GERROL, DIRECTOR**  
**JOHN HAMBY**  
**JANET WASHINGTON**

Science Technology  
Engineering Mathematics  
**STEM** RCPS Governor's STEM  
Academy At BCAT  
Burton Center for Arts & Technology • 1760 Boulevard • Salem, Virginia • 24153 • 540.857.5000



## SKILLS TAUGHT

- **Problem Solving:** design and build innovative solutions to real problems using science knowledge, mathematical reasoning, and tools of technology
- **Technological tools:** Computer Aided Design (CAD), manufacturing machinery, 3-D printing, CNC engraving, circuits and soldering
- **Systems:** electronics, pneumatics, hydraulics, computer controllers
- **Collaboration:** work in several different types of teams to explore innovation that involves multiple disciplines
- **Internship:** students spend part of their senior year interning with an engineer in their preferred field

## CAREER OPTIONS

**Career Cluster:** Science, Technology, Engineering, & Mathematics

**Career Options:** Civil and architectural engineering, computer aided design, electrical engineering, computer science, medical engineering, aeronautical engineering, and others

## TO LEARN MORE





# CENTER FOR MASS COMM

ERIC SALO, DIRECTOR  
ELIZABETH CHAPMAN  
MICHAEL CUBBERLEY  
SARA CUBBERLEY

Science Technology  
Engineering Mathematics  
**STEM** RCPS  
Governor's STEM  
Academy At BCAT  
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## SKILLS TAUGHT

- **Multimedia production:** video, audio, photography, graphic design, web design
- **Topics:** marketing techniques, media literacy, multimedia production, legal and ethical issues in the industry, social media, podcasting, radio, print production
- **History:** development of various media and their effects on individuals and society
- **Soft skills:** professionalism, public speaking, interpersonal communication
- **Internship:** students spend part of their senior year interning with a mass communication professional



## TO LEARN MORE



## CAREER OPTIONS

**Career Cluster:** Arts, A/V Technology, & Communications

**Career Options:** Producer/director, graphic designer, videographer/photographer, media manager, advertising/creative director, public relations, journalist, film/video editor

# CENTER FOR PERFORMING ARTS



**VICTORIA BUCK, DIRECTOR**  
**PATTIE CLEVENGER**  
**KELLI MANOR**



## SKILLS TAUGHT

- **Acting:** acting and performance techniques, including personal awareness, storytelling, script analysis, character development, audition skills
- **Dance:** skill development in dance styles performed in Musical Theatre: jazz, tap, hip hop, contemporary and ballroom, emphasis on audition techniques, physical fitness and creative expression
- **Voice:** development of essential skills and techniques required in singing and vocal production, vocal health, ear training, music theory
- **Real-world application:** students will participate in at least 3 performances with live audiences

## CAREER OPTIONS

**Career Cluster:** Arts, A/V Technology, & Communications

**Career Options:** Actor, dancer, singer, choreographer, theatre director, theatre stage manager, talent agent, special effects technician, lighting technician, costume designer, casting manager

## TO LEARN MORE





# CENTER FOR VISUAL ARTS

NATALIE STRUM, DIRECTOR  
GABRIELLE FROHOCK  
ASHLEY WIMER



## SKILLS TAUGHT

- Art making, art history, and museum studies
- **Techniques:** drawing, painting, pottery, printmaking, digital, and sculpture.
- **Media:** acrylic paint, oil paint, pen and ink, charcoal, pastel, watercolor, gouache, scratchboard, and colored pencil.
- **Art History:** cave painting through contemporary art.
- **Advanced Placement (AP Art):** offered in the senior year, test for college credit
- **Real-world application and Art Internship:** participation in class at Taubman Museum of Art for a portion of each year. Seniors have the option to take an Art Internship.



## TO LEARN MORE



## CAREER OPTIONS

**Career Cluster:** Arts, A/V Technology, & Communications

**Career Options:** Painter, Illustrator, Designer, Graphic Designer, Interior Design, Textile Design, Product Design, Industrial Design, Art Educator, Art Historian, Art Museum Curator, Set Design, Jewelry Design, Art Administrator

# NOTES





1760 Boulevard  
Salem, VA 24153  
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## APPLY TODAY

<https://bit.ly/BCATAPP>



For more information contact:

Teresa Gibbons (Gibby)

BCAT School Counselor

[tgibbons@rcps.us](mailto:tgibbons@rcps.us)

540-562-3900 Ext. 29011

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