

# WYTHE COUNTY PUBLIC SCHOOLS

COLLEGE & CAREER PATHWAY PLANNER



## **PATHWAYS**

How to decide if you're on a college or career ready pathway.

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Students investigate careers and design their courses of study to advance their career goals.

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Students have the opportunity to earn high school credit for work-based learning experiences

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Find out how you can align your high school electives to your career goals after high school

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**UPDATED 2022**

# WCPS PATHWAYS

## Purpose Driven Curriculum and Pathways Program

An essential portion of our purpose driven curriculum will be the Pathway Program. The goal of our Pathway Program for WCPS High School Students is to ensure that our experience and course work has a purpose and that our curriculum is preparing students to attend a four-year college, attend a two-year technical college, transition into the workplace, or acquire functional life skills. We want our students, in conjunction with their parents, to begin formulating an idea of what they want to do after high school. This program is an integral part of our purpose driven curriculum which identifies different academic pathways for our students. These informed decisions will assist students to register in the appropriate coursework and ultimately enable them to be successful in their post-secondary endeavors. The first step to success is to pick a Pathway below.



Which pathway will be your journey to graduation?



WCPS = Wythe County Public Schools  
WCC - Wytheville Community College

WCTC = Wythe County Technology Center  
Co-Op = Cooperative Work Experience





## **1 - Honors Academy**

This program will involve a small number of students, selected from all three high schools, who will demonstrate exceptional academic ability and talent. These students will be enrolled in dual credit classes, will participate in Governor's School or WCC Scholars Program, and will focus on STEM initiatives. These students will be challenged with a rigorous curriculum. This pathway is designed for our most advanced students.

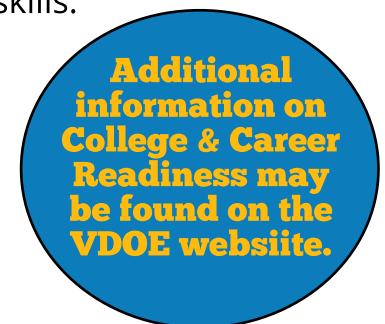


## **5 - Career Readiness**

This program is designed for students who are focused on earning a certification or license for a specific vocation. Students in this pathway will be ready for work immediately after graduation. Students will enroll in classes at WCTC and WCC as appropriate. Consequently, students may opt to register in dual-enrollment vocational courses. Release time to work may be granted while earning high school credits.

## **6 - Life Skills/Graduation**

This program will address students who are struggling with the traditional high school curriculum. These students will focus on functional academics which will help them gain independence, basic job skills, and daily living skills.



## **2 - College Scholars**

This program will involve students who have completed most of their high school requirements and who want to focus on gaining college credits. Students will be required to take a specific set of dual-enrollment classes that will prepare them to enter a four-year college.

## **3 - College Readiness**

This program will involve students who plan on attending college, but who are not ready or interested in a full load of dual enrollment credits during high school. We will ensure these students have all of the necessary coursework to successfully enter most two or four-year colleges.

## **4 - Transition to Work**

A – Students who want to transition to work with an Advanced Diploma

B – Students who want to transition to work with a Standard Diploma

This program is designed for students who possess a clear understanding of what vocation they want to engage in after high school. We will create a partnership with various local businesses to ensure that students are ready to enter the workplace having completed the necessary training and/or obtained the prerequisite certification to begin a job soon after high school graduation.





# Exploring the Paths to YOUR FUTURE

## *The 16 Career Clusters*

Does the phrase "Your choices will affect the rest of your life" sound familiar? It's no exaggeration to say the elective choices you make in high school could pave a gratifying path to your future. As you begin to plan your academic pathway you will need to make important decisions on what training you want to receive in high school. Educational opportunities in Wythe County can prepare you for your ideal career path. Good careers don't just happen. Careful planning along with good choices and hard work will lead you to a happy and productive adult life as well. The first step on this journey is understanding what your options are and how to make your personal interests fit in the options you have in high school when it comes to coursework.

To simplify this decision making process, the US Dept. of Education developed 16 Career Clusters with their own instructional focus and skill requirements clearly defined.

The Career Cluster framework is useful for students to help connect their required course work towards a career interest.



Since you are required to take a certain amount of credits in high school, you might as well use your time effectively to obtain the basic skills needed to put you on the path towards a productive career.

Within each cluster, there are elective courses that correspond to a collection of educational opportunities to prepare you for your chosen career.



What classes should I take to make the most out of my time in high school?

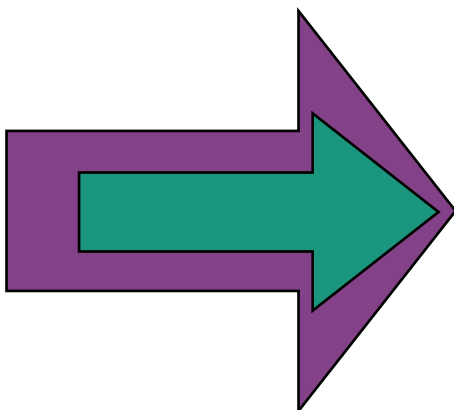
## STEP 1:

















Log in and take the Student Interest Inventory on [MajorClarity.com](http://MajorClarity.com) to help determine what career choices are available based on what activities you enjoy, your personal qualities, and the subject you like.



## STEP 2:

Explore the career clusters that best match your interests and talents.



<input checked="" type="checkbox"/>	Career Cluster	Description
	 Agriculture, Food & Natural Resources	The production, processing, marketing, distribution, financing, and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources.
	 Architecture & Construction	Careers in designing, planning, managing, building and maintaining the built environment.
	 Arts, A/V Technology & Communications	Careers in designing, planning, managing, building and maintaining the built environment.
	 Business Management & Administration	Planning, organizing, directing and evaluating business functions essential to efficient and productive business operations.
	 Education & Training	Planning, managing and providing education and training services, and related learning support services.
	 Finance	Planning, services for financial and investment planning, banking, insurance, and business financial management
	 Government & Public Administration	Executing governmental functions to include governance; national security; foreign service; planning; revenue and taxation; regulation; and management and administration at the local, state, and federal levels.
	 Health Science	Planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.
	 Hospitality & Tourism	Management, marketing and operations of restaurants and other foodservices, lodging, attractions, recreation events and travel related services.
	 Human Services	Preparing individuals for employment in career pathways that relate to families and human needs.
	 Information Technology	Design, development, support and management of hardware, software, multimedia, and systems integration services.
	 Law, Public Safety, Corrections & Security	Planning, managing, and providing legal, public safety, protective services and homeland security, including professional and technical support services.
	 Manufacturing	Planning, managing and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering.
	 Marketing	Planning, managing, and performing marketing activities to reach organizational objectives.
	 Science, Technology, Engineering & Mathematics	Planning, managing, and providing scientific research and professional and technical services (e.g., physical science, social science, engineering) including laboratory and testing services, and research and development services
	 Transportation, Distribution & Logistics	Planning, management, and movement of people, materials, and goods by road, pipeline, air, rail and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.

**STEP 3:** Investigate what type of education or training your selected career clusters require:

*College Pathway or Career Readiness Pathway*



**STEP 4:** Decide which WCPS pathway will lead you towards your career path:

**Honors Academy**

**College Scholars**

**College Readiness**

**Transition to Work**

**Career Readiness**

**Life Skills**



**STEP 5:** Talk with your school counselor about which high school core classes and electives you will need to take to better prepare you for your career aspirations.



Use the following pages in this guidebook to see which electives your high school can offer you based on your career interests.





# HOW WCPS HIGH SCHOOL ELECTIVES FIT INTO THE CAREER CLUSTERS

CAREER CLUSTER	DESCRIPTION	SAMPLE OCCUPATIONS	WCPS ELECTIVES
	The production, processing, marketing, distribution, financing, and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources	Agribusiness Teacher, Landscaping and Groundskeepers, Farmworkers and Laborers, Veterinary Occupations, Environmental Engineer, Farmer/ Rancher, Fish Hatchery Manager, Park Naturalist, Soil & Water Conservationist, Wildlife Biologist, Zoologist, Forestry Mgt., Extension Agent, National Park Service Employee	AGR8073 Applied Ag Concepts AGR8034 Horticulture Science AGR8035 Horticulture Sci II AGR8008 Intro Animal Systems AGR8010 Ag Prod Technology AGR8088 Veterinary Science AGR8080 Equine Mgt AGR8014 Operating Farm Bus AGR8040 Intro to Natural Res AGR8041 Fisheries and Wildlife Mgt AGR8042 Forestry Mgt AGR8012 Livestock Prod Mgt AGR8019 Ag Fabrication and Emerging Technologies <i>*See Ag Dept Pathways in WCPS Program of Studies*</i> CTE8672 Welding I CTE8673 Welding II CTE8420 Technology of Robotic Design ENG2315 Appalachian Studies HPE7640 Adv PE <u>Recommended Core Classes Include:</u> SCI 4240 Earth Science SCI4220 Adv. Survey of Earth Science WBL8475 Career Education
CAREER CLUSTER	DESCRIPTION	SAMPLE OCCUPATIONS	WCPS ELECTIVES
	Careers in designing, planning, managing, building and maintaining the built environment.	Architect, Carpenter, Block/Brick Layer, Civil Engineer, Construction Manager, Contractor, Computer Information System, Manager/ Designer, Education and Training Director, Electrician, Mechanical Engineer, Urban Planner/ Designer, General Contractor/ Builder, Interior Designer, Plumber, Safety Director , Solar Energy Technician	AGR8073 Applied Ag Concepts AGR8019 Ag Fabrication and Emerging Technologies CTE8515 Building Trades I CTE8516 Building Trades II CTE8450 Engineering Explorations CTE8451 Engineering Analysis and Applications II CTE8452 Engineering Analysis and Applications III CTE8453 Engineering Practicum IV CTE8420 Technology of Robotics ART9120 Foundations of Art I ART9190 Digital Photography ART5162 Graphic Arts Design ART9140 Drawing, Painting and Sculpting ENG2315 Appalachian Studies HPE7640 Adv PE CTE8672 Welding I CTE8673 Welding II <u>Recommended Core Classes Include:</u> MTH3143 Geometry SCI4510 Physics WBL8475 Career Education




## HOW WCPS HIGH SCHOOL ELECTIVES FIT INTO THE CAREER CLUSTERS


<b>CAREER CLUSTER</b>	<b>DESCRIPTION</b>	<b>SAMPLE OCCUPATIONS</b>	<b>WCPS ELECTIVES</b>
	Careers in designing, planning, managing, building and maintaining the built environment.	Graphic Designer, Writer, Author, Editor, Photographer, Multimedia Design, Architect, Film Career, Performing Arts, Journalism, Broadcasting, Telecommunications, Radio Broadcaster, Interior Design, Home furnishing coordinator, Curator or Gallery Manager, Costume Designer, Video Editor, Video Production, Stage Designer,	ART9120 Foundations of Art I ART9190 Digital Photography ART5162 Graphic Arts Design ART9140 Drawing, Painting and Sculpting BUS6611 Digital Applications BUS6630 Design Multimedia & Web Tech MUS9222 Music Appreciation MUS9225 Music Theory MUS9233 Intermed Band MUS9234 Adv Band MUS9245 Guitar Lab MUS9250 Percussion Ensemble MUS9255 Piano Lab MUS9297 Piano Lab II MUS9285 Intermediate Chorus MUS9289 Adv Chorus ENG1215 Photojournalism/Yearbook ENG1410 Speech Applications (Drama I) ENG1420 Speech Production (Drama II) ENG1448 Forensics ENG2315 Appalachian Studies ENG01177 Advanced Composition ENG1171D DE Creative Writing CTE 6640 Intro to Game Design & Develop(Virtual VA) MKT8110 Intro to Marketing MKT8127 Digital and Social Media Marketing MKT8175 Sports and Entertainment Marketing MKT8130 Adv Marketing MKT8130C Marketing Co-op CTE8672 Welding I (Creativity with plasma cutter) CTE8673 Welding II (Creativity with plasma cutter) WBL8475 Career Education
<b>CAREER CLUSTER</b>	<b>DESCRIPTION</b>	<b>SAMPLE OCCUPATIONS</b>	<b>WCPS ELECTIVES</b>
	Business Management and Administration careers encompass planning, organizing, directing and evaluating business functions essential to efficient and productive business operations. Business Management and Administration career opportunities are available in every sector of the economy.	Accountant, Advertising Sales, Analyst Sales, Analyst, Auditor, Bookkeeper, Business Consultant, Certified Public Accountant, Chief Executive Officer, Corporate Trainer, Entrepreneur, Facilities Manager, Financial Analyst, Finance Director, General Manager, Human Resources Manager, Investment Executive, Legal Secretary, Marketing Analyst, Meeting and Convention Planner, Office Manager, Paralegal, Personnel Recruiter, Public Relations Manager, Receptionist, Sales Representative, Wholesale and Retail Buyer	BUS6611 Digital Applications BUS6612 Computer Info Systems BUS6630 Design Multimedia & Web Tech BUS6320 Accounting BUS10020 Computer Science Foundations BUS 10011 Computer Science Principles BUS10021 Computer Science Programming BUS6131D DE Business Law BUS 6810D DE Into to Business BUS6120 D DE Personal Finance LAN5110 French I LAN51200 French II LAN5130 French III LAN5510 Spanish I LAN5520 Spanish II LAN5530 Spanish III LAN5540 Spanish IV LAN5550 Spanish V MKT8110 Intro to Marketing MKT8127 Digital and Social Media Marketing MKT8130 Adv Marketing MKT8130C Marketing Co-op ENG1448 Forensics CTE 6120 Finance (SVETN) <u>Recommended Core Classes Include:</u> MTH3190 Prob and Stats MTH3190A Advanced Prob and Stats <u>WBL8475 Career Education</u>




# HOW WCPS HIGH SCHOOL ELECTIVES FIT INTO THE CAREER CLUSTERS

CAREER CLUSTER	DESCRIPTION	SAMPLE OCCUPATIONS	WCPS ELECTIVES
	<p>Planning, managing and providing education and training services, and related learning support services.</p>	<p>Elementary Teacher, High School Teacher, Middle School Teacher, Principal, Administrator, Teacher Assistant, Coach, School Counselor, Librarian, Assessment Specialist, Occupation Tech Administrator, Child Care Worker, College/ University Faculty, Counselor, Curriculum Developer, Education Researcher, Psychologists (Clinical, Development, Social), Social Worker, Speech-Language, Pathologist/ Audiologist</p>	<p>BUS6611 Digital Applications  BUS6612 Computer Info Systems  BUS6630 Design Multimedia and Web Tech  BUS10020 Computer Science Foundations  BUS 10011 Computer Science Principles  BUS10021 Computer Science Programming  LAN5110 French I  LAN51200 French II  LAN5130 French III  LAN5140 French IV  LAN5510 Spanish I  LAN5520 Spanish II  LAN5530 Spanish III  LAN5540 Spanish IV  LAN5550 Spanish V  MIL7913 Military Science 1  MIL7916 Military Science 2  MIL7918 Military Science 3  MIL7919 Military Science 4  MIL7920 Military Science 5  MIL7922 Military Science  ART9120 Foundations of Art I  ART9190 Digital Photography  ART5162 Graphic Arts Design  ART9140 Drawing, Painting and Sculpting  MUS9222 Music Appreciation  MUS9225 Music Theory  MUS9233 Intermediate Band  MUS9234 Adv Band  MUS9245 Guitar Lab  MUS9250 Percussion Ensemble  MUS9255 Piano Lab  MUS9297 Piano Lab II  MUS9285 Intermediate Chorus  MUS9289 Adv Chorus  ENG1215 Photojournalism/Yearbook  ENG1410 Speech Applications (Drama I)  ENG1420 Speech Production (Drama II)  ENG1448 Forensics  ENG2315 Appalachian Studies  ENG01177 Advanced Composition  ENG1171D DE Creative Writing  HPE7640 Adv PE  SOC2900 Principles of Psychology  SOC2500D Principles of Sociology  ENG1165D American Literature  WBL8475 Career Education</p> <p><u>Recommended Core Classes Include:</u>  MTH3190-Prob and Stats — — —  MTH3190A Advanced Prob and Stats</p>



## HOW WCPS HIGH SCHOOL ELECTIVES FIT INTO THE CAREER CLUSTERS

CAREER CLUSTER	DESCRIPTION	SAMPLE OCCUPATIONS	WCPS ELECTIVES
	Planning, services for financial and investment planning, banking, insurance, and business financial management.	Accountant, Actuary, Auditor, Financial Manager, Bank Teller, Commodities Representative, Controller, Credit Analyst, Debt Counselor, Economist, Financial Planner/ Analyst, Foreign Exchange Manager, Fund Raiser, Insurance Broker, Internal Auditor, Investment Advisor, Loan Officer, Non-Profit Manager, Personal Financial Advisor, Tax Examiner/ Preparer, Title Researcher and Examiner, Treasurer	BUS6611 Digital Applications BUS6612 Computer Info Systems BUS6630 Design Multimedia and Web Tech BUS6320 Accounting BUS6302 Cyber Security Fundamentals BUS6131D DE Business Law BUS 6810D DE Into to Business BUS6120 D DE Personal Finance BUS10020 Computer Science Foundations BUS 10011 Computer Science Principles BUS10021 Computer Science Programming  MKT8110 Intro to Marketing MKT8127 Digital and Social Media Marketing MKT8175 Sports and Entertainment Marketing MKT8130 Adv Marketing MKT8130C Marketing Co-op MTH 3190D Intro to Elem.Stats  CTE 6120 Finance WBL8475 Career Education  <u>Recommended Core Classes Include:</u>  MTH3190 Prob and Stats MTH3190A Advanced Prob and Stats


CAREER CLUSTER	DESCRIPTION	SAMPLE OCCUPATIONS	WCPS ELECTIVES
	Executing governmental functions to include Governance; National Security; Foreign Service; Planning; Revenue and Taxation; Regulation; and Management and Administration at the local, state, and federal levels.	Postal Service Employee, Interpreter, Translator, Compliance Officer, Tax Preparers, Occupational/Safety Specialist, Real Estate Appraiser/Assessor, Foreign Services Officer, Cryptographer, Intelligence Analyst, Lobbyist, Policy Analyst, Government Auditor, Congressional Aide, tax Examiner, Auditor/Assessor, Investigator/Examiner, Court Administrator, Court, Municipal, and License Clerks,	CTE8702 Criminal Justice I CTE8703 Criminal Justice II BUS6611 Digital Applications BUS6302 Cyber Security BUS10020 Computer Science Foundations BUS 10011 Computer Science Principles BUS10021 Computer Science Programming BUS6131D DE Business Law LAN5110 French I LAN51200 French II LAN5130 French III LAN5140 French IV LAN5510 Spanish I LAN5520 Spanish II LAN5530 Spanish III LAN5540 Spanish IV LAN5550 Spanish V MIL7913 Military Science 1 MIL7916 Military Science 2 MIL7918 Military Science 3 MIL7919 Military Science 4 MIL7920 Military Science 5 MIL7922 Military Science 6 MKT8110 Intro to Marketing MKT8127 Digital and Social Media Marketing MKT8175 Sports and Entertainment Marketing MKT8130 Adv Marketing MKT8130C Marketing Co-op ENG1215 Photojournalism (Yearbook) ENG1448 Forensics MTH 3190D Intro to Elem.Stats CTE8702 Criminal Justice I (WCTC) CTE8703 Criminal Justice II (WCTC) Any Foreign Lang not offered by WCPS (Virtual VA WBL8475 WBL8475 Career Education




## HOW WCPS HIGH SCHOOL ELECTIVES FIT INTO THE CAREER CLUSTERS

<b>CAREER CLUSTER</b>	<b>DESCRIPTION</b>	<b>SAMPLE OCCUPATIONS</b>	<b>WCPS ELECTIVES</b>
	Planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development	Acupuncturist, Athletic Trainer, Audiologist, Biomedical/Clinical Engineer, Chiropractor, Dietary Technician, Doctor, Dental Hygienist, Dentist, Nurse, Home Health Aide, Medical Lab Technologist, Microbiologist, EMT and Paramedic, Pathologist, Pharmacist, Physical Therapist, Physician, Registered Nurse	BUS6611 Digital Applications CTE8357 Practical Nursing 1 CTE8358 Practical Nursing 2 FAM8210 Individual Development FAM8219 Indep Living FAM8227 Life Planning FAM8229 Nutrition & Wellness LAN5110 French I LAN5120 French II LAN5130 French III LAN5140 French IV LAN5510 Spanish I LAN5520 Spanish II LAN5530 Spanish III LAN5540 Spanish IV LAN5550 Spanish V HPE7640 Adv PE BUS10020 Computer Science Foundations SCI 4320 DE Biology II SCI4330 Anatomy and Physiology SOC2900 Principles of Psychology (SVETN) SOC2500D Principles of Sociology (SVETN) CTE8383D Medical Terminology (SVETN) LAN5310 Latin I (Virtual VA) LAN5320 Latin II (Virtual VA) LAN5330 Latin III (Virtual VA) LAN5340 Latin IV (Virtual VA) WBL8475 Career Education
<b>CAREER CLUSTER</b>	<b>DESCRIPTION</b>	<b>SAMPLE OCCUPATIONS</b>	<b>WCPS ELECTIVES</b>
	Hospitality & Tourism encompasses the management, marketing and operations of restaurants and other foodservices, lodging, attractions, recreation events and travel related services.	Restaurant Cook, Server or Host, Bartender, Recreation Worker, Hotel/Motel Management, Cruise Ship Management, Executive Chef, Food Service Manager, Amusement and Recreation Attendant or Manager, Golf Management, Manager, Resort Owner, Sales Professional, Event Planner, Interpreter, Travel Agent, Club Manager, Wedding Planner	CTE8275 Culinary Arts 1 CTE8276 Culinary Arts 2 BUS6611 Digital Applications BUS 6810D DE Into to Business (SVETN) FAM8210 Individual Development FAM8219 Independent Living FAM8227 Life Planning FAM8229 Nutrition & Wellness LAN5110 French I LAN51200 French II LAN5130 French III LAN5140 French IV LAN5510 Spanish I LAN5520 Spanish II LAN5530 Spanish III LAN5540 Spanish IV LAN5550 Spanish V MKT8110 Intro to Marketing MKT8127 Digital and Social Media Marketing MKT8175 Sports and Entertainment Marketing MKT8130 Adv Marketing MKT8130C Marketing Co-op ART9120 Foundations of Art I ART9190 Digital Photography ART5162 Graphic Arts Design ART9140 Drawing, Paining and Sculpting WBL8475 Career Education


## HOW WCPS HIGH SCHOOL ELECTIVES FIT INTO THE CAREER CLUSTERS


CAREER CLUSTER	DESCRIPTION	SAMPLE OCCUPATIONS	WCPS ELECTIVES
<b>(continued)</b> 	Hospitality & Tourism encompasses the management, marketing and operations of restaurants and other foodservices, lodging, attractions, recreation events and travel related services.	Restaurant Cook, Server or Host, Bartender, Recreation Worker, Hotel/Motel Management, Cruise Ship Management, Executive Chef, Food Service Manager, Amusement and Recreation Attendant or Manager, Golf Management, Manager, Resort Owner, Sales Professional, Event Planner, Interpreter, Travel Agent, Club Manager, Wedding Planner	MUS9222 Music Appreciation MUS9225 Music Theory MUS9233 Intermediate Band MUS9234 Adv Band MUS9245 Guitar Lab MUS9250 Percussion Ensemble MUS9255 Piano Lab MUS9297 Piano Lab II MUS9285 Intermediate Chorus MUS9289 Adv Chorus ENG1215 Photojournalism/Yearbook E NG1410 Speech Applications (Drama I) ENG1420 Speech Production (Drama II) ENG1448 Forensics ENG2315 Appalachian Studies HPE7640 Adv PE MKT8110 Intro to Marketing MKT8127 Digital and Social Media Marketing MKT8175 Sports and Entertainment Marketing MKT8130 Adv Marketing MKT8130C Marketing Co-op Any Foreign Language via Virtual VA not offered by WCPS WBL8475 Career Education <u>Recommended Core Classes Include:</u> MTH3190 Prob and Stats or Adv Prob and Stats SOC2216 World History II

CAREER CLUSTER	DESCRIPTION	SAMPLE OCCUPATIONS	WCPS ELECTIVES
	Preparing individuals for employment in career pathways that relate to families and human needs.	Personal Care Aide, Social Worker, Rehabilitation Counselor, Occupation Counselor, Child Care Workers, Clergy, Director or Assistant Directors for Child Care Facilities, Marriage or Family Counselor, Hairstylist, Nail Technician, Fitness Trainer, Massage Therapist, Mental Health Counselor, Personal Trainer, Teacher, Psychologist, Rehabilitation Counselor, School Counselors, Sociologists	BUS6611 Digital Applications CTE8527 Cosmetology I CTE8528 Cosmetology II FAM8210 Individual Development FAM8219 Indep Living FAM8227 Life Planning FAM8229 Nutrition & Wellness CTE8275 Culinary Arts 1 CTE8276 Culinary Arts 2 LAN5110 French I LAN51200 French II LAN5130 French III LAN5140 French IV LAN5510 Spanish I LAN5520 Spanish II LAN5530 Spanish III LAN5540 Spanish IV LAN5550 Spanish V ENG1448 Forensics ENG2315 Appalachian Studies ENG1410 Speech Applications (Drama I) ENG1420 Speech Production (Drama II) HPE7640 Adv PE SOC2900 Principles of Psychology SOC2500D Principles of Sociology WBL8475 Career Education





## HOW WCPS HIGH SCHOOL ELECTIVES FIT INTO THE CAREER CLUSTERS

<b>CAREER CLUSTER</b>	<b>DESCRIPTION</b>	<b>SAMPLE OCCUPATIONS</b>	<b>WCPS ELECTIVES</b>
	Building Linkages in IT Occupations Framework: For Entry Level, Technical, and Professional Careers Related to the Design, Development, Support and Management of Hardware, Software, Multimedia, and Systems Integration Services.	Computer Programmer, Data Communications Analyst, Database Administrator, Instructional Designer, Multimedia Developer/Specialist, Network Analyst/Architect/Engineer/Manager, Online Publisher, Senior Database Administrator, Systems Engineer, Technical Writer, Web Developer, Web Administrator, Software Designer, Game Developer, App Developer,	BUS6611 Digital Applications BUS6612 Computer Info Systems BUS6630 Design Multimedia and Web Tech BUS6302 Cyber Security Fundamentals BUS10020 Computer Science Foundations BUS 10011 Computer Science Principles BUS10021 Computer Science Programming ENG1215 Yearbook ART9190 Digital Photography MTH 3190A Adv Prob and Stats CTE8450 Engineering Explorations CTE8451 Engineering Analysis & App II CTE8452 Engineering Concepts and Proc III CTE8453 Engineering Practicum IV CTE8420 Technology of Robotic Design CTE8530 Computer Aided Design I CTE8531 Computer Aided Design II CTE8575 Industrial Technology I CTE8576 Industrial Technology II CTE8554 Mechatronics I CTE8555 Mechatronics II CTE8554 Mechatronics III WBL8475 Career Education

<b>CAREER CLUSTER</b>	<b>DESCRIPTION</b>	<b>SAMPLE OCCUPATIONS</b>	<b>WCPS ELECTIVES</b>
	Planning, managing, and providing legal, public safety, protective services and homeland security, including professional and technical support services.	Security Guards, Police, Sheriff, Deputy, Fire Fighter, Detective, Legal Secretary, Computer Security, Computer Forensics Examiner, Corrections Educators, Corrections Officer, Criminal Investigator, Special Agent, EMT, Emergency Management and Response Coordinator, Judge, Lawyer, Paralegal, Rescue Worker, Cyber Security	BUS6611 Digital Applications BUS6302 Cyber Security Fundamentals CTE8702 Criminal Justice I (DE option avail) CTE8703 Criminal Justice II (DE option avail) BUS10020 Computer Science Foundations BUS 10011 Computer Science Principles BUS10021 Computer Science Programming BUS6131D DE Business Law MIL7913 Military Science 1 MIL7916 Military Science 2 MIL7918 Military Science 3 MIL7919 Military Science 4 MIL7920 Military Science 5 MIL7922 Military Science 6 ENG1448 Forensics ENG2315 Appalachian Studies HPE7640 Adv PE SOC2900 Principles of Psychology SOC2500D Principles of Sociology WBL8475 Career Education


# HOW WCPS HIGH SCHOOL ELECTIVES FIT INTO THE CAREER CLUSTERS


CAREER CLUSTER	DESCRIPTION	SAMPLE OCCUPATIONS	WCPS ELECTIVES
	Planning, managing and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance and manufacturing/ process engineering.	Industrial manufacturing, Machinists, Biomedical Equipment Technician, Computer Installer/Repairer, Engineer, HVAC Technician, Plumbers, Pipe-fitters, Inspector, Labor Relations Manager, Manger, Supervisor, Machine Technology, Medical Equipment Manufacturing, Appliance Maker, Production Managers, Safety Coordinators, Welder , Solar Energy Technology,	AGR8073 Applied Ag Concepts AGR8010 Ag Prod Technology BUS10020 Computer Science Foundations BUS 10011 Computer Science Principles BUS10021 Computer Science Programming CTE8450 Engineering Explorations CTE8451 Engineering Analysis & App II CTE8452 Engineering Concepts and Proc III CTE 8453 Engineering Practicum IV CTE8420 Technology of Robotic Design CTE8515 Building Trades I CTE8516 Building Trades II CTE8539 Precision Machine Technology I CTE8540 Precision Machine Technology II CTE 8019 Ag Fab and Emerging Tech CTE8672 Welding I CTE8673 Welding II CTE8530 Computer Aided Design I CTE8531 Computer Aided Design II CTE8575 Industrial Technology I CTE8576 Industrial Technology II CTE8554 Mechatronics I CTE8555 Mechatronics II CTE8554 Mechatronics III WBL8475 Career Education Participation in the WCPS "Manufacturing Excellence" Program is highly recommended.

CAREER CLUSTER	DESCRIPTION	SAMPLE OCCUPATIONS	WCPS ELECTIVES
	Planning, managing, and performing marketing activities to reach organizational objectives.	Retail Salesperson or Manager, Real Estate, Account Executive, Chief Executive Officer (CEO), Entrepreneur, Interior Designers, Marketing Managers, Market Researchers, Public Relations Specialists, Sales Representative, Sales Executive, Webmaster, Public Relations Specialist	BUS6611 Digital Applications BUS6612 Computer Info Systems B US6630 Design Multimedia and Web Tech BUS6320 Accounting BUS6131D DE Business Law BUS 6810D DE Into to Business BUS6120 D DE Personal Finance LAN5110 French I LAN51200 French II LAN5130 French III LAN5140 French IV LAN5510 Spanish I LAN5520 Spanish II LAN5530 Spanish III LAN5540 Spanish IV LAN5550 Spanish V MKT8110 Intro to Marketing MKT8127 Digital and Social Media Marketing MKT8175 Sports and Entertainment Marketing MKT8130 Adv Marketing MKT8130C Marketing Co-op ENG1410 Speech Applications (Drama I) ENG1420 Speech Production (Drama II) ENG1215 Photojournalism/Yearbook ENG1448 Forensics WBL8475 Career Education




## HOW WCPS HIGH SCHOOL ELECTIVES FIT INTO THE CAREER CLUSTERS

CAREER CLUSTER	DESCRIPTION	SAMPLE OCCUPATIONS	WCPS ELECTIVES
<b>(continued)</b> 	Planning, managing, and performing marketing activities to reach organizational objectives.	Retail Salesperson or Manager, Real Estate, Account Executive, Chief Executive Officer (CEO), Entrepreneur, Interior Designers, Marketing Managers, Market Researchers, Public Relations Specialists, Sales Representative, Sales Executive, Webmaster, Public Relations Specialist	ENG1410 Speech Applications (Drama I) ENG1420 Speech Production (Drama II)  CTE 6120 Finance WBL8475 Career Education  <u>Recommended Core Classes Include:</u> MTH3190 Prob and Stats or Adv Prob and Stats

CAREER CLUSTER	DESCRIPTION	SAMPLE OCCUPATIONS	WCPS ELECTIVES
	Planning, managing, and providing scientific research and professional and technical services (e.g., physical science, social science, engineering) including laboratory and testing services, and research and development services.	Anthropologist, Archaeologist, Civil Engineering, Environmental Scientist, Chemical Engineering, Chemist, Geologist, Computer Network Support, Computer Specialist, Computer Analyst, Statistician, Mechanical Engineer, Electronics, Any occupation listed in the <b>HEALTH SCIENCE INFORMATION TECHNOLOGY, or AGRICULTURE</b> clusters above	AGR8073 Applied Ag Concepts BUS6611 Digital Applications BUS6612 Computer Info Systems BUS10020 Computer Science Foundations BUS 10011 Computer Science Principles BUS10021 Computer Science Programming BUS6302 Cyber Security Fundamentals BUS6611 Digital Applications BUS6612 Computer Info Systems BUS6630 Design Multimedia and Web Tech CTE8357 Practical Nursing 1 CTE8358 Practical Nursing 2 CTE8450 Engineering Explorations CTE8451 Engineering Analysis & App II CTE8452 Engineering Concepts and Proc III CTE 8453 Engineering Practicum IV  CTE8420 Technology of Robotic Design CTE8530 Computer Aided Design I CTE8531 Computer Aided Design II CTE8539 Precision Machine Technology I CTE8540 Precision Machine Technology II CTE8575 Industrial Technology I CTE8576 Industrial Technology II CTE8554 Mechatronics I CTE8555 Mechatronics II CTE8383D Medical Terminology CTE 6640 Intro to Game Design & Develop. (Virtual VA) MTH3190A Advanced Probability and Statistics MTH 3190D Intro to Elem.Stats MTH_TBD_D College Algebra WBL8475 Career Education  <u>Recommended Core Classes Include:</u> Students Should Take Math all 4 Yrs Students Should Take Science all 4 Yrs

# HOW WCPS HIGH SCHOOL ELECTIVES FIT INTO THE CAREER CLUSTERS

CAREER CLUSTER	DESCRIPTION	SAMPLE OCCUPATIONS	WCPS ELECTIVES
	<p>Planning, management, and movement of people, materials, and goods by road, pipeline, air, rail and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.</p>	<p>Flight Attendant, Airline employee, Air Traffic Controller, Consultants, Delivery Driver, Mail Carrier, Electrician, Engineer, Marketing, Manager, Pilot, Sales Manager, Shipping and Receiving Supervisor, Technician, Truck Driver, Urban and Regional Planner, Warehouse Distribution, Sales and Service, Automotive Service Technicians, Logicians, Dispatchers, Bus Drivers, Military Career</p>	<p>BUS6611 Digital Applications  BUS6612 Computer Info Systems  BUS6320 Accounting  BUS10020 Computer Science Foundations  BUS 10011 Computer Science Principles  BUS10021 Computer Science Programming</p> <p>CTE8506 Automotive Technology I  CTE8507 Automotive Technology II  CTE8508 Automotive Technology III</p> <p>CTE8450 Engineering Explorations  CTE8451 Engineering Analysis &amp; App II  CTE8452 Engineering Concepts and Proc III  CTE 8453 Engineering Practicum IV</p> <p>CTE8420 Technology of Robotic Design</p> <p>CTE8575 Industrial Technology I  CTE8576 Industrial Technology II</p> <p>MIL7913 Military Science 1  MIL7916 Military Science 2  MIL7918 Military Science 3  MIL7919 Military Science 4  MIL7920 Military Science 5  MIL7922 Military Science 6</p> <p>MKT8110 Intro to Marketing  MKT8127 Digital and Social Media Marketing  MKT8175 Sports and Entertainment Marketing  MKT8130 Adv Marketing  MKT8130C Marketing Co-op</p> <p>WBL8475 Career Education</p>



# Additional Online Electives

Students may wish to pursue additional electives from any of our online options listed below. Online courses provide students exposure to academic subjects that support their chosen career cluster beyond what is available in the school building. All online courses require an approval process. Please check with your school counselor to receive the most recent and updated information regarding WCPS online classes.



	<b>Pathway:</b>	<b>Grade:</b>	<b>Pre-requisite:</b>	<b>Link to more information:</b>
<b>Apex Learning</b>	All WCPS Pathways	9 - 12	pre-approval <i>see WCPS Program of Studies</i>	<a href="https://www.apexlearning.com/digital-curriculum/courses/catalog">https://www.apexlearning.com/digital-curriculum/courses/catalog</a>
<b>Virtual Virginia</b>	All WCPS Pathways	9 - 12	pre-approval <i>see WCPS Program of Studies</i>	<a href="https://www.virtualvirginia.org/courses/catalog/index.html">https://www.virtualvirginia.org/courses/catalog/index.html</a>
<b>WCC Online Dual Enrollment</b>	WCPS Pathways 1, 2, 3	11 - 12	Virginia College Placement Test (VPT) in Reading and/or Math <i>See School Counselor and WCC Career Coach for additional pre-requisites</i>	<a href="https://www.wcc.vccs.edu/dual-enrollment">https://www.wcc.vccs.edu/dual-enrollment</a>
<b>Linwood Holton Governor's School</b>	WCPS Pathways 1 and 2	11 - 12	Virginia College Placement Test (VPT) in Reading and/or Math <i>See School Counselor and WCC Career Coach for additional pre-requisites</i>	<a href="http://www.hgs.k12.va.us/Courses_Page.htm">http://www.hgs.k12.va.us/Courses_Page.htm</a>

## What to Know Before Taking Online Courses

**Value an independent learning experience.**

**Be organized from the beginning.**

Manage your time wisely. Don't get behind! Don't procrastinate!

**Reserve the same time each day to work on your assignments.**

**Have a dedicated study space.**

Become familiar and follow the instructor's expectations.

**Identify learning objectives and goals.**

**Build a Study Plan**

**Ask for help when you need it.**

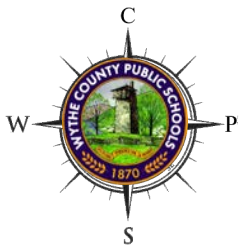




*The career-planning component of the Profile of a Virginia Graduate provides an opportunity for students to learn more about the employment options and career paths they first explored in elementary and middle school. While there is no specific career-related activity that a student must experience (such as an internship or job-shadowing assignment) to earn a diploma, school divisions must provide opportunities for students to learn about workplace expectations and career options in their own communities and elsewhere. By reducing the number of SOL tests students must pass to earn a diploma, the new standards increase flexibility for schools to expand work-based and service-learning programs that promote college, career and civic readiness.*

***Please see your School Counselor for options regarding the following Work-based Learning (WBL) opportunities you may have:***

- ❑ **Career Education (WBL8475)** This experience will provide students with on-the-job-instruction and potential career exploration opportunities based on the students' selected career cluster(s). The student will also have the opportunity to strengthen motivation and acquire soft skills, workplace readiness skills, and professional skills. Students will receive a Pass (P) or Fail (F) grade for this course.
- ❑ **Career Education (WBL8475-B) Capstone** This experience will provide students with an opportunity to reflect on the work-based experience and display what they understand about the key aspects of the industry/career. This process will enrich the work-based learning experience and allow the student to apply meaningful knowledge and skills obtained through the program through a research based project. Student projects will be graded using a rubric.
- ❑ **Manufacturing Excellence Training (WBL8475-ME)** This experience will provide students with an opportunity to observe the successful practices of a wide variance of manufacturing processes. Students will attend 8 sessions consisting of on-site training and direct instruction from Manufacturing professionals.
- ❑ **Education for Employment (WBL9085)** This course teaches students to make informed career and continuing education choices as they transition from school, gain technical skills, and adapt to the workplace. Students are taught ethical behaviors and career-research, job-acquisition, workplace-communication, self-awareness, self-advocacy, customer-service, and life skills.



# CAREER PLANNING

## Navigation

EXPLORE

||

DISCOVER

||

GROW



Students must be upper classmen in good academic standing and on track to graduate.



Students must attend 8 career development workshops provided by WCPS. Student will learn skills and develop professional etiquette necessary for success in the workplace.



Students will gain meaningful work experience with professional mentors while potentially earning wages, too!

**WORK-BASED LEARNING (WBL) IS A COORDINATED, WORKPLACE EXPERIENCE THAT IS RELATED TO STUDENTS' CAREER GOALS AND/OR INTERESTS. WCPS WILL PROVIDE STUDENTS INSTRUCTIONAL PREPARATION PRIOR TO THE WBL EXPERIENCE. WCPS HAS FORMED PARTNERSHIPS WITH LOCAL BUSINESSES, INDUSTRIES, AND OTHER ORGANIZATIONS IN THE COMMUNITY. WBL ENABLES STUDENTS TO APPLY CLASSROOM INSTRUCTION IN A REAL-WORLD BUSINESS OR SERVICE-ORIENTED WORK ENVIRONMENT.**

**Job Shadowing** is a method of short-term, school-coordinated career exploration in which the student interviews a competent worker about his/her job and industry and "shadows" (follows) the worker to observe the performance of a variety of job tasks.

**Service Learning** is a method in which the student engages in community-service work for a specified number of hours in order to gain developmental experience.

**Internship** is a progressive, school-coordinated method that places the student in a real workplace environment in order to develop and practice career-related knowledge and skills needed for a specific entry-level job.

**Cooperative Education** is a career preparation WBL method that combines CTE classroom instruction with paid employment that is directly related to the student's plan of study.

**Youth Registered Apprenticeship (YRA)** \*for Students 17 and under\* is a career preparation WBL method that integrates school-based and work-based learning to help students gain employ-ability and occupational skills.

**SIGN UP FOR CAREER EDUCATION CLASS AS AN ELECTIVE TO PARTICIPATE IN THIS REWARDING WORK-BASED-LEARNING OPPORTUNITY**



# Virginia Profile of a Graduate Requirements for Students Entering as Freshman in 2018 and Beyond



## Three Diploma Options

There are three diploma options available for students who are or were first-time ninth graders in 2018-19 and beyond. The three options are the Advanced Studies Diploma, Standard Diploma, and the Applied Studies Diploma.

### Advanced Studies Diploma (Class of 2022)

Subject	Standard Units of Credit Required	Verified Credits Required
English	4	2
Mathematics	4	1
Science	4	1
History/Social Science	4	1
World Language	3	
Health & Physical Education	2	
Fine Arts or Career & Technical Education	1	
Economics & Personal Finance	1	
Electives	3	
<b>TOTAL</b>	<b>26</b>	<b>5</b>

### Advanced Studies Diploma

For students who see themselves attending a four year college such as JMU or VA Tech this diploma would be very helpful.

*For students with IEPs it should be noted, after graduating with an Advanced Studies Diploma, or Standard Diploma, students will no longer qualify for free appropriate public education or FAPE, and will not be able to receive ongoing services through the public school system after graduation.*

### Standard Diploma (Class of 2022)

Subject	Standard Units of Credit Required	Verified Credits Required
English	4	2
Mathematics	3	1
Science	3	1
History/Social Science	3	1
Health & Physical Education	2	
World Language, Fine Arts or Career & Technical Education	2	
Economics & Personal Finance	1	
Electives	4	
<b>TOTAL</b>	<b>22</b>	<b>5</b>

### Standard Diploma

Although both the Advanced Studies and Standard Diploma are designed to prepare students to be college and career ready, this diploma allows students the opportunity to attend 2-year colleges including community colleges and some 4-year colleges. Also, for students that would like to master a trade or enroll in an apprenticeship such as welding or cosmetology this is the diploma that is often requested as a minimum requirement.

If you are earning a Standard Diploma you must also complete two sequential electives and earn a career and technical education credential.

### Applied Studies Diploma

The Applied Studies Diploma is for students who have completed the requirements of their IEP and who do not meet the requirements for other diplomas. Students who earn this diploma will be eligible for ongoing services, FAPE, through the age of 21.

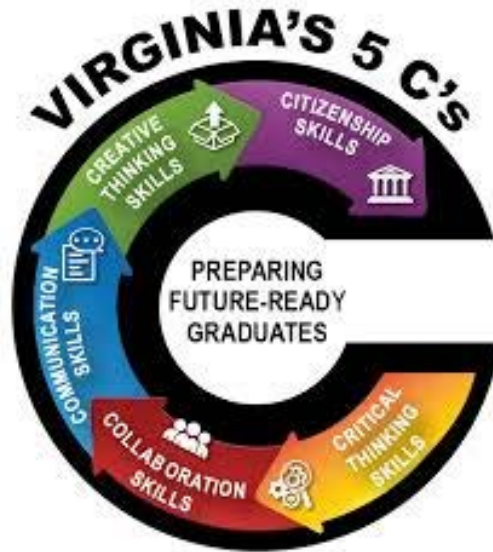
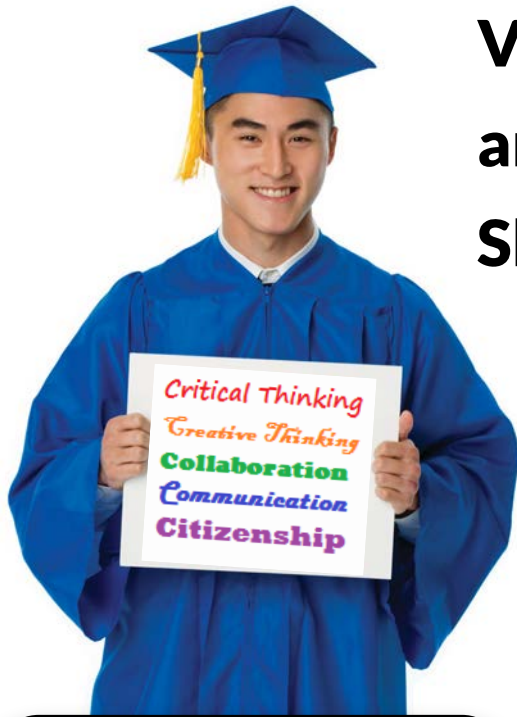
### Additional Requirements

Additional requirements for students earning an Advanced Studies or a Standard Diploma are that they must complete one virtual course and be trained in Emergency First aid, CPR and the use of an AED. For questions regarding either of these requirements, consult your school counselor.

For additional information please visit the VDOE website at <http://www.doe.virginia.gov/instruction/graduation/index.shtml>



# Virginia Graduates Shall Acquire and Demonstrate Foundational Skills in



Wythe County Public Schools will integrate and promote The Five C's in all core and elective subject areas.



## Profile of a Virginia Graduate In Virginia, the Life Ready Individual:





## How do I determine which career cluster is right for me?

Students were given a career interest inventory in Middle School to help identify their top three potential Career Clusters. The interest inventory will help students explore career options based on their likes and dislikes. Students can find a career they will love based on their personality and work values. Some sample Career Cluster Inventories can be found at:

- <https://careertech.org/sites/default/files/StudentInterestSurvey-English.pdf>
- <https://www.vawizard.org/wizard/careersAssess>
- For additional information on Career Opportunities in all states go to <http://www.careeroutlook.us/>
- Wythe County students can log-in to their Major Clarity account at <https://platform.majorclarity.com/signin>

## If students change their minds, will they be able to change their pathways?

Absolutely! The WCPS Pathways or Career Clusters are not a permanent commitment. Students will continue to change their minds as their interests, likes, dislikes, and college and/or career aspirations change with their age and maturity. But it is good to get the discussion started now so students can use their time in high school to explore different career options.

## Where can I find more information about college and/or career readiness?

The VA Department of Education has provided guidance on College and Career Readiness to prepare VA students for postsecondary education and employer expectations. For more information on their initiative go to: [http://www.doe.virginia.gov/instruction/college\\_career\\_readiness/index.shtml](http://www.doe.virginia.gov/instruction/college_career_readiness/index.shtml)



The VA Department of Education has also provided information and links to help students investigate the 16 Career Clusters to advance their career goals. To find out more about options for your career choice go to: [http://www.doe.virginia.gov/instruction/career\\_technical/career\\_clusters/index.shtml](http://www.doe.virginia.gov/instruction/career_technical/career_clusters/index.shtml)



The VA Education Wizard is a wonderful website to help secondary and post-secondary students in Virginia to career and/or college readiness. The IMAGINE tab on their website guides students to the reality of how much income is needed to live their preferred lifestyle. VA Wizard will help lead you down the path to building a career. For more information go to: <https://www.vawizard.org/wizard/home>



The VA Career and Technical Education Resource Center has provided students a way search for meaningful occupations either by browsing career clusters or by their favorite academic subject. To get more help finding a career to fit your interests, go to: <http://www.cteresource.org/cpg/>



MajorClarity helps ensure that every student's education leads to a successful career outcome—whether through a 4-year degree or going into the workforce. Students only retain 10% of what they read, which is why interactive "test-drives" are critical to driving student outcomes and how we achieved a 189% increase in students building career aligned course plans of study. <https://majorclarity.com>.



The Wytheville Community College website has a fantastic link on to career pathways in our local region. Students can explore what the required criteria are for their career interests as well as what the salary range is for our region. For more information go to: <http://www.wcc.vccs.edu/pathways>