

ROCKINGHAM COUNTY

CAREER & TECHNICAL EDUCATION 2016-17



McMichael High CTE Staff



ROCKINGHAM COUNTY
APPRENTICESHIP & TECHNICAL OPPORTUNITIES PARTNERSHIP



It is a privilege to serve the people of Rockingham County as CTE Director. As a result of collaboration with a fantastic group of CTE teachers as well as Business/community leaders, I am convinced that our students will be confronted with perplexing problems and unprecedented challenges within their lifetime. CTE programs

can play a pivotal role in helping our young people meet these challenges. CTE programs will develop the essential **Career Skills** that employers desire, the **Technical Skills** that will allow them to utilize the equipment and software of the future and will provide students with the kind of **Education** that emphasizes the development of *analytical, critical* and *creative* thinking skills that will be crucial to success in the 21st Century. Our CTE staff will utilize their respective content not only as a means of providing students with critical technical, thinking, and career skills, but also as a means of drawing out and developing the unique talents of each individual. In doing so, we intend to develop the most in demand type of individual in the 21st Century: The Creative Problem Solver.

We not only want great problem solvers but we want good citizens. Our students should learn to become creative problem solvers in collaborative settings where they can learn to be both globally aware and locally responsible. In such a system our students will not be relegated to the role of bystanders who will passively inherit a future; on the contrary, they will be empowered to become aggressive participants in the creation of the future. The following pages are intended to provide a brief overview of how the CTE department of Rockingham County schools seeks to accomplish this goal.

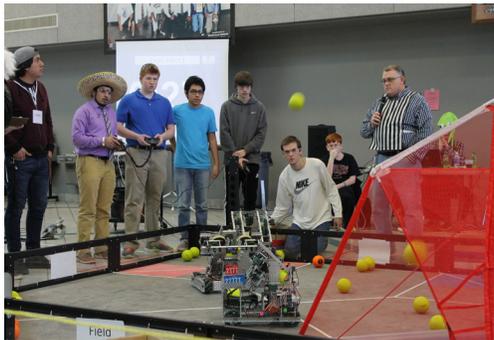


Connecting student talent and interest with
HIGH WAGE & HIGH DEMAND CAREERS

Rockingham County Schools CTE Programs 2016-17

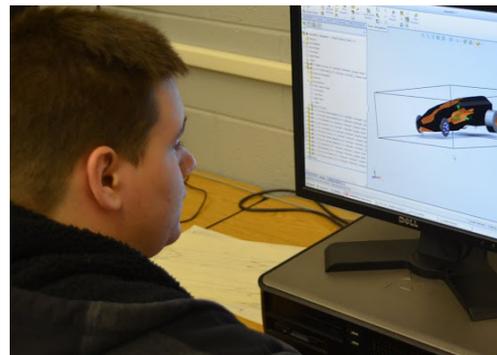
CTE programs will lead in the closure of the Skills Gap. One of the greatest indicators of CTE success is the percent of CTE completers who go on to pursue employment, post-secondary education, advanced training, or military service. We intend to continue to exceed state benchmark (93.7% in 2016-17) each of the next four years on this indicator. The primary force that drives the success of secondary placement is the effort that we employ to close the gap that exists between the skills that our young people currently possess and the types of skills that will be necessary for success in the 21st Century Job market. As a result CTE staff will:

a) Define the 21st Century **Career Skills** that Rockingham County considers to be crucial to the success of our students and the growth of our county.



b) Demonstrate how an education that is characterized by the development of certain “**Thinking Skills**” are crucial to success in the 21st Century Economy and are transferable across virtually all content areas.

c) Develop specific **Technical Skills** supported by the use of cutting edge technology.



d) Continue to pursue **Partnerships** that will result in new opportunities for student internships, apprenticeships, and credential attainment.



HIGH WAGE & HIGH DEMAND

“We have much more potential contracts than we can possibly fill. Securing capital for equipment and machines is easy, as lending is readily available and not an issue. The issue is having someone trained to utilize the equipment we have. The growth of our business is limited only by the ability to secure qualified employees.”

-Matt Edwards, Human Resource Director
Machine Specialists Inc. Whitsett, NC

21st CENTURY CAREER SKILLS

The successful 21st Century Individual will possess certain “Soft” or “Career” skills. A major goal of the CTE program over the 2016-17 school year will be to help define the 21st Century **Career Skills** that Rockingham County considers to be crucial to the success of our students and the growth of our county. Such skills would include Self-Direction, Collaboration, Communication, Creative Problem Solving and Critical Thinking. CTE staff will work with non-profits, business & community leaders, core content teachers and Rockingham Community College staff to define these skills. Progress toward the promotion and integration of these skills will be evaluated by Rock-ATOP annually. The plan for 2016-17 already includes strategies for developing the Career Skills of effective communication and self-direction.

Self-Direction

Self-direction is a crucial 21st Century Career Skill. One of the ways that self-direction manifests itself is in one’s ability to locate information that is pertinent to the problem at hand. The effective use of technology to locate information constitutes a major way in which ELA teachers and CTE teachers can support the efforts of each other. MSITA teachers will engage in professional development with ELA teachers, and instructional technology personnel to learn how to utilize text, search engines and data bases to locate information that is pertinent to the problem at hand. This professional development will be accomplished by October 30, 2016. We will know if we have been successful if we see an increase in achievement on the Locating Information portion of the Work Keys Exam. This ability will also positively impact student understanding of CTE content which should manifest itself in increased performance on their post assessments. The strategy would also reinforce the ELA teacher’s efforts to: Gather relevant information from multiple print and digital sources, assess the credibility and accuracy of each source, and integrate the information while avoiding plagiarism. (ELA, CCSS)



MHS Entrepreneurship Student Presentations to Community Leaders

Communication

CTE Teachers will employ instructional strategies that will assist students in the process of transitioning ideas from their heads and into the real world. An integral part of this process is to help students establish the communication skill necessary to effectively defend their solutions to problems as well as the skill necessary to thoughtfully critique the work of classmates. Such an emphasis should also improve student performance on language arts assessments as the ability to defend and to articulate a particular position remains a consistent theme in the ELA Common Core State Standards.

We will enlist the help of Senior Project Advisers to provide teachers with training regarding the use of rubrics to assess projects and training regarding how to use rubrics to assist in the critique and evaluation of other students' work as well as their own work. CTE Teachers will be expected to provide students with opportunities to present their projects



Intro to Design student critique at Madison Town Hall

to their peers, faculty and community members. This strategy is aligned with the ELA Common Core Standard which expects students to make strategic use of digital media and visual displays of data to express information and enhance understandings of presentations (ELA CCSS). The strategy is also aligned to the ELA standard that calls for students to “present information, findings and supporting evidence such that listeners can follow the line of reasoning and the organization, development, and style are appropriate to task, purpose and audience.” As pictured above, effective communication is essential to the design process. As a result, Technology Engineering and Design students, in particular will develop the capacity to explain, defend, persuade others of the merits of design decisions as well as thoughtfully criticize the design decisions of others.

We will know if we have been successful if our Technology students are able to achieve the English Language Arts Common Core Standard (SL.9-10.1) which requires that students “initiate and participate effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grades 9–10 topics, texts, and issues, building on others' ideas and expressing their own clearly and persuasively.”



RCHS Fire Fighter Academy Students

21st CENTURY CAREER SKILLS

21st CENTURY TECHNICAL SKILLS

CTE Staff will help students develop specific Technical Skills supported by the use of cutting edge technology. Such technology will be used to support and help develop the ways of thinking and career skills detailed elsewhere in the plan. CTE staff will collaborate with Rockingham County Schools' Technology department over the next four years in an effort to identify and research such technology.

CTE Funds will be expended during the 2016-17 year to create Adobe Labs at Rockingham County High School and Morehead High School and to update the Technology Engineering & Design Lab at DMHS. CTE Funds will be used during the 2017-18 school year to update the Drafting lab at McMichael High School. CTE Funds will be used during the 2017-18 school year to update the labs at Western Rockingham Middle School and Holmes Middle School. The computer labs at Reidsville Middle and Rockingham Middle will be updated during the 2018-19 school year.

CTE Funds will be used to purchase diagnostic equipment that will support our new EMS program at RCHS; the auto-technology programs at RCHS and MHS; and the Health Science programs at each high school. CTE Funds will also be used over the next four years to support our TED programs at Morehead High School and McMichael High School with emerging technology. Technology includes Vex Robotics Equipment, 3-D printers and scanners; probes and analytical devices to support emerging Internet of Things sector of the economy.



RCHS Fire Academy Students

All such technology support the types of thinking skills, career skills and technical skills that we intend to develop across all program areas and classes. The chart on the next page details the CTE courses by school that are available to our high school students. Our Middle School programs include classes that introduce students to computer information skills, life skills and technological skills.

Further, the CTE department is proud of the technical oriented academies that are available to rising 9th graders. A STEM academy exists at McMichael High School; a Public Safety Academy exists at Rockingham County High School (pictured above) a Health Science Academy continues to flourish at Morehead High School and we are piloting a Sports & Entertainment Marketing Academy at Rockingham



DMHS Agriculture Students

County High School. Graduates of each of the academies will be CTE completers and will have collected work-based experiences, credentials and advanced studies opportunities along the way.



21st CENTURY TECHNICAL SKILLS

“The problem is not that we don’t have jobs available for our folks in Rockingham County; The problem is that a lot of the time, the skill sets don’t match the needs of the employer.”

-Jean Ann Wood
President, Eden Chamber of Commerce

21st CENTURY THINKING SKILLS

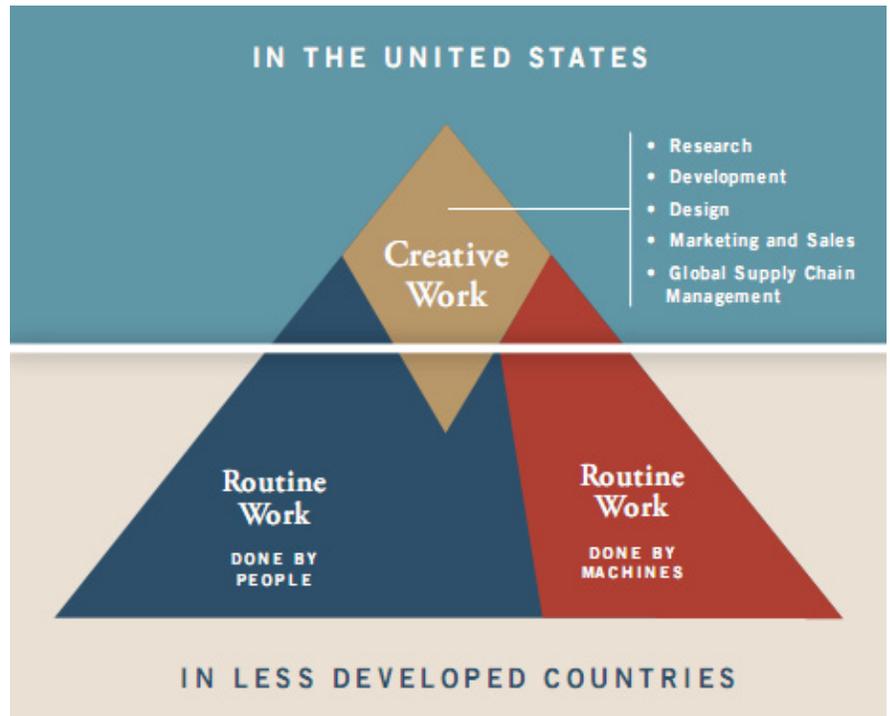
CTE staff will demonstrate how an education that is characterized by the development of certain “Thinking Skills” is crucial to success in the 21st Century Economy and is transferable across virtually all content areas. CTE staff will demonstrate how Content understanding, Analytical thinking, Critical Thinking, and Creative thinking are integral to the most critical skill of problem solving. The New Commission on the Skills of the American Workforce developed a report entitled *Tough choices or Tough Times* which forecasts what the US economy would look like in ten years “if all goes well”. The commission determined that “The best employers the world over will be looking for the most competent, most creative, and most innovative people on the face of the earth and will be willing to pay them top dollar for their services.”

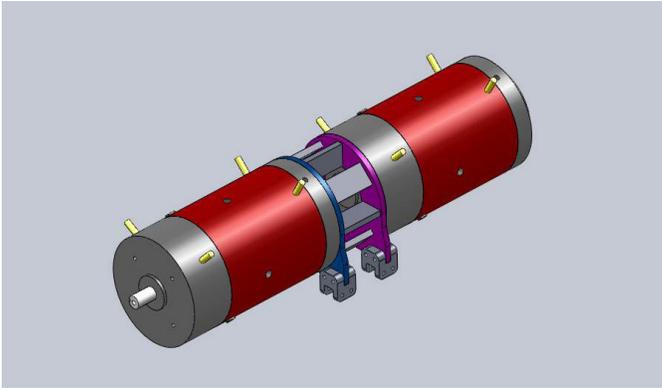
The graphic taken from the report on the right illustrates that the majority of the routine work available in the near future will be either done by machines or outsourced to less developed countries. This graphic illustrates that success in

more developed countries will be dependent on capacities that cannot be completed by a machine or easily outsourced. Such capacity is increasingly becoming recognized as the capacity to create. Lorin Anderson and David Krathwohl echo the importance of this capacity as they placed “creating” at the panicle of their revision of Bloom’s Taxonomy pictured below.

Evidence of creative problem solving contained within student work will be consistently posted on our district’s CTE website. Further, CTE staff will engage core curriculum teachers via CTE led workshops that demonstrate how many of the tools and content contained within CTE classes can help support the “ways of thinking” that core curriculum teachers are attempting to develop in their students. CTE staff will lead such workshops within the district over the next four years.

CTE teachers are in a position to demonstrate how content understanding, analytical thinking, critical thinking and creative thinking are all necessary in the process of problem solving. Further, at the conclusion of the process students are provided with the opportunity to develop their communication skills by presenting and defending their solutions to their peers, teachers and/or community members.

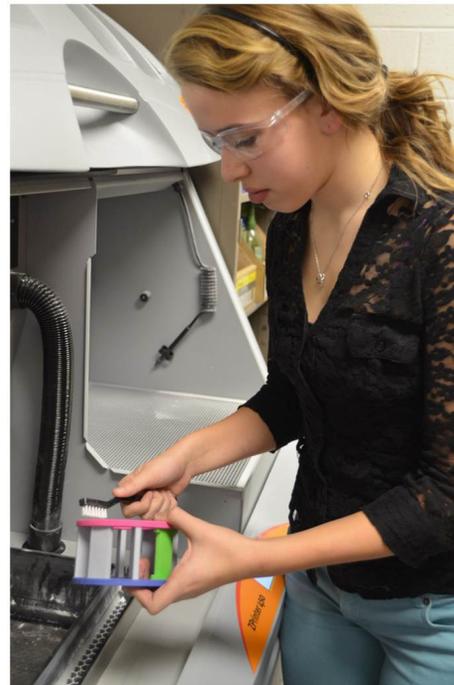




One of the ways in which the integration of all of these thinking skills come together most vividly is within the Design Process. CTE students will progressively learn strategies for identifying problems/opportunities; visualizing possible solutions; modeling, testing and proto-typing; and effectively communicating and/or critiquing solutions. CTE will lead Rockingham County Schools in the development of creative problem solvers through the appli-

cation of a design process whereby virtually all content areas can have a role to play. Examples of creative problem solving will be routinely posted on CTE website.

By establishing design thinking, problem based learning and the meaningful use of software and equipment as standard practice within CTE classes, CTE staff will demonstrate to core content teachers how CTE content and tools can help students see the relevance of math and science content. CTE teachers will continue to lead workshops over the next four years that will demonstrate how computer aided design software can be used to teach complex math concepts. In this respect, CTE programs can play a major role in the understanding of STEM within the district as an “integrated component of learning rather than a discipline by discipline checklist.” Pictured above is a CAD rendering of a part designed by DMHS students. Another DMHS student can be seen to the right removing a prototype of the part from a 3-D printer. Finally pictured below are DMHS students actually installing the final part between two electric motors that was subsequently installed in a car that the students converted from gas powered to electric powered. (The vehicle was featured in a 2012 issue of 5.0 Mustang Magazine found here: <http://www.mustangandfords.com/featured-vehicles/m5ld-1206-1992-ford-mustang-creative-spark/>)



Further, CTE staff will collaborate with the Arts Department (specifically at Reidsville High School and McMichael High School) in an effort to further define how some of the design principles within the Arts can be integrated within the more technically oriented design classes like Adobe Visual to enhance the quality of projects generated.



21st CENTURY PARTNERSHIPS



The CTE programs take advantage of productive partnerships with our business community, Rockingham Community College and NCDPI. The Rockingham Apprenticeship and Technical Opportunities Partnership (Rock-ATOP) came into being in 2013. The group is comprised of Business and Community Leaders, Rockingham Community College Staff, and Rockingham County Schools staff members. The group was assembled to close the “skills gap” by aligning county resources opportunities that exist for you right here in your own backyard.

Rockingham Community College and Rockingham County Schools CTE staff presented at the National Career Pathway Conference in Dallas Texas on October 29th. The team highlighted progress made with the Machining, Automation, and Welding Pathway Plan developed during the 2014-15 School Year. A promotional video of the plan can be found here: <https://www.youtube.com/watch?v=GNEtxLiMbgQ>. Rock-ATOP developed a Nursing Pathway during the 2015-16 school year. The nursing pathway is depicted on page 14 of this document.





Pictured on the right is David Barbour met with RCHS Administrators/staff along with Rockingham County and State Emergency Management personnel to plan for the 2016-17 addition of an EMT program at RCHS.

Our Goal is to continue to pursue new opportunities for student internships, apprenticeships, and credential at-

tainment. This will provide students with the opportunity to apply the career skills, ways of thinking, and technical skills learned within their CTE classes in a real-world setting. CTE director, IMC, and CDCs will conduct presentations at chamber functions and service organization meetings in an effort to secure new work-based experiences for our students over the next four years. Pictured below are members of the Morehead High School and Rockingham County High School NATEF Committee. Rockingham County CTE is fortunate to have great partners to help direct our programs.

The backbone of our program is the CTE faculty members that direct our programs and teach our students each day. Our teachers are supported by our Instructional Management Coordinator Ms. Karen Setliff and our administrative staff Ms. Lori Hancock (pictured below) and Ms. Ginger Smothers. We are also fortunate to have four excellent Career Coordinators within our district: Ms. Beth Smith, Reidsville High; Ms. Christy Hensley, Morehead High; Ms. Lydia Bryant, McMichael High; and Mr. Jim Carrol, Rockingham High.

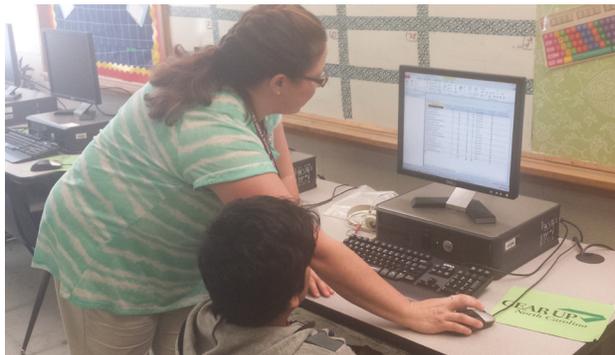


The skills gap in Rockingham County is real; it is not imagined. This is an opportunity to help not only the young people of our community but also our employers and the county economy as a whole. I think this program is a giant step forward in meeting those needs.

-Mark Richardson,
Rockingham County Commissioner

Putting it all together
21st CENTURY PARTNERSHIPS

Our High School CTE staff is supported by an excellent group of Middle Grades CTE Teachers like Ms. Marsha Roark, Holmes Middle School Business teacher, pictured to the right. All of our staff of Super CTE Teachers and are identified below. The courses offered within our CTE program can be found on pages 20 & 21.



McMichael High

Moganzick Bell	Agriculture
Donna Holder	Health Science
Ann Everhart	Business
Laura Stack	Business
Winnie Freeman	Business
Shannon Terrell	Adobe
Lydia Bryant	CDC
Jennifer Flynt	FACS
Kathy Miller	FACS
Melia Cardwell	FACS
Matt Hill	TED/Drafting
John Butler	TED
Laura Mignone	Marketing

Morehead High

Allyson Edwards	Allied Health Science
Jean Manuel	Health Science
New	Health Science
Diane Thomas	Business
Chris Higgs	Business
Jean Stone	Business
Sheila Thompson	Business/Adobe
Erika Bozeman	Marketing
Christy Hensley	CDC
Christy Boyles	FACS
Rhonda Holland	FACS Science
Blair Pruitt	Automotive Tech
George Turner	Drafting
Max Dooley	TED

Western Rockingham Middle

Sara Stewart	FACS
Carolyn Baylis	Technology
Todd Jones	Business

Holmes Middle

Marsha Roark	Business
John Brown	Technology
New	Business

Rockingham County High

Sharon Jones	Agriculture
Lynn Knight	Agriculture
Teresa Harris	Health Science
Robin Yeatts	Health Science
Frieda Strickland	FACS Science.
Nina Walls	Adobe/Business
Rick Baciуска	Marketing
Rosalina Webster	Public Safety
Tim Buck	Business
Jim Carroll	CDC
Gwen Lance	FACS
Josh Evans	Fire Academy
Robert Craddock	Drafting
Derrick Shelton	Automotive Tech

Reidsville High

Vivian Moore	Health Science
Diane Thomas	Business
Greg Corbett	Business
Yolanda Stubblefield	Adobe
Beth Smith	CDC
Collette Broadnax	FACS
Ann Chaney	FACS
Betty Green	FACS
Rosalina Webster	Public Safety
Larry Goodes	Marketing/Business
George Turner	Drafting

Rockingham Middle

Samuel Phillips	Business
Jackie Whicker	Life Skills
Bryan Powell	Business

Reidsville Middle

Chuck Jones	Business
Joe Broadnax	Business



MOREHEAD HIGH



MCMICHAEL HIGH



REIDSVILLE HIGH



ROCKINGHAM HIGH



NURSING PATHWAY

9th GRADE

Math I
 English I
 World History
 Earth Science
 PE
 Elective
 Elective
 Health Team Relations

10th GRADE

Math II
 English II
 Biology
 Civics
 Foreign Language
 Elective
 Elective
 Health Science I

11th GRADE

Math III
 English III
 Anatomy & Physiology
 American History (RCC)
 Foreign Language II
 Elective
 Elective
 Health Science II

12th GRADE

Math IV
 English IV
 AP Chemistry
 4th Social Studies
 Elective
 Elective or Pharmacy Tech.
 Nursing Fundamentals (a)
 Nursing Fundamentals (b)
 *Nursing Assistant (CNA)

YEAR 5 (RCC)

(Fall)
 Anatomy/Physiology I
 Developmental Psychology
 (Spring)
 Anatomy/Physiology II
 Expository Writing
 Chemistry 131 (AP Chemistry can count for this class)

YEAR 6 (RCC)

(Fall)
 Intro to Health Concepts
 Pharmacology
 (Spring)
 Health-Illness Concepts
 Family-Health Concepts
 Nutrition/Diet Therapy
 (Summer)
 Holistic Health Concepts

YEAR 7 (RCC)

(Fall)
 Health Care Concepts
 Health Systems Concepts
 Professional Research & Reporting
 (Spring)
 Complex Health Concepts
 *Registered Nurse (RN)





CTE staff will promote and develop career pathways for students that will help students to take advantage of the high wage and high demand career opportunities particularly in STEM related fields that exist in their own backyard. CDC and CTE staff will promote certain pathways in an attempt to help students and parents to understand that while dignity is attributed to all work, all work will not be sustained over the next few decades and all work will not afford individuals with an adequate wage. It will be a priority for Career Development Counselors, Instructional Management Coordinator and CTE director to work with both Rockingham County Schools and Rockingham Community College counselors to develop 4-6 year plans that direct students toward those classes that are consistent with their interests and will lead to a high wage career that is likely to be sustained over the years. Pictured to the left are a group of Nursing Fundamentals Students along with their teacher, Ms. Teresa Harris. The students were among more than 200 CTE students from RCHS and RHS who took part in the Reidsville Business Showcase, sponsored by the Reidsville Chamber of Commerce. The Reidsville Chamber solicited the support of many of its members in reserving a time during the annual event to provide career support direction to our students. A similar event is sponsored by the Eden Chamber of Commerce. Morehead High School students take advantage of this annual event.

Our Career Counselors work with their respective guidance departments to arrange opportunities to promote the CTE programs that are available to rising 9th grade students. Pictured to the right is a group of Holmes Middle School students visiting booths representing the CTE programs available at their future High School (Morehead). Pictured below is a group of parents of rising ninth grade students who attended an information meeting regarding the STEM Academy at McMichael High School. Similar meetings were held for parents who were interested in learning more about the Health Science Academy at Morehead High School and the Public Safety Academy at Rockingham County High. Graduates of each program will be CTE Completers. We intend to continue to forge strong relationships with our regular education counterparts, local chambers, non-profit organizations and Rockingham Community College in order to help our students realize the fantastic opportunities that are available to them in their own backyard.



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Mr. John Butler, TED Teacher & students presenting to parents of eighth grade students

Proposed PRC 014 and PRC 017 Budgets

<u>CODES</u>	<u>DESCRIPTION</u>	<u>AMOUNT</u>	<u>DETAILS</u>
1.5110.014.121	Teacher	12,000	25% EMT Instructor RCHS
1.5110.014.211	Social Security	918	EMT Social Security
1.5110.014.221	Retirement	000	
1.5110.014.351	Credentials	5,000	Nurse Aid
1.5120.014.162Sub Pay –	Workshops	1580	
1.5120.014.191	Curriculum Dev.	2138	Summer Workshop Stipends
1.5120.014.312	Workshop Expenses	9,000	Conferences & Tuition
1.5120.014.332	Travel	1500	
1.5120.014.333	Field Trips	1000	
1.5120.014.379	Insurance	3500	Work-Based Student Insurance
1.5120.014.411	Supplies/Materials	27,771	Supplies (teacher request)
1.5120.014.418	Computer Software	1600	Adobe Software
1.5120.014.422	Repairs/Materials	500	
1.5120.014.462	Computer Hardware	50,000	Adobe Lab RCHS & MHS
1.6120.014.151Salary –	Office Personnel	48,026	(.5 Lori and .5 Ginger)
1.6120.014.184Longevity	Office Staff Longevity	2139	
1.6120.014.211	Soc.Security Cost	3674	Office Staff Social Security
1.6120.014.221	Retirement Cost	7305	Office Staff Retirement
1.6120.014.231	Hospital Cost	5353	Office Staff Hospital Cost
1.6120.014.312	Workshop Admin.	600	Director Regional Mtg.

Total 183,604

<u>BUDGET CODE</u>	<u>DESCRIPTION</u>	<u>AMOUNT</u>	<u>DETAILS</u>
3.5120.017.163	Sub Pay	3,000.00	Workshops & Competitions
3.5120.017.211	Social Security Cost	229.50	Substitute Social Security
3.5120.017.312	Workshop Expenses	11,000.00	Workshops and Tuition
1.5110.014.351	Credentials	5,000.00	CPR for Health Science II
3.5120.017.332	Travel	3,500.00	Workshops; site visits etc.
3.5120.017.333	Field Trips	4,100.00	Teacher requested field trips
3.5120.017.411	Supplies/Materials	69,511.00	Supplies (teacher request)
3.5120.017.418	Software	5792.00	Gmetrix; Today's Class
3.5120.017.422	Repairs/Materials	1,000.00	
3.5120.017.462	Computer Equip.	55.93000	TED Lab DMHS
3.5120.017.541	Equipment Purchase	4000.00	EMT, Auto-Tech, Robotics
3.6120.017.411	Testing Supplies	800.00	
3.8100.017.392	Indirect Cost	3,499.86	

Total 168,062.36

We Believe:	Based on this belief we seek to: (Goal)	Therefore we need: (Input)	In order to: (Output)
<p>We believe that the development of Career Skills will be critical to the success of ALL students and critical to the future growth of our community.</p>	<p>Identify a set of Career Skills that are specific to Rockingham County in order to Increase the likelihood of successful attainment of internships, apprenticeships and employment.</p>	<p>To collaborate with Business leaders, Non-Profits, and Core Content teachers to develop a set of career skills for Rockingham County. This will be accomplished by August 2016. CTE funds will be used to provide a stipend for work group/ staff development over the summer. CTE funds will also be used to produce posters and brochures detailing agreed upon Career Skills. \$2000</p>	<p>Ensure that all of the district's teachers are utilizing the same language and working toward the goal of developing identified Career Skills.</p>
<p>We believe that the integration and appropriate use of 21st Century Technology will afford our students the opportunity to compete in the market place of the future.</p>	<p>Provide TED students with CPUs that are reliable and capable of running latest versions of CAD software.</p> <p>Provide Graphics students with CPUs that are reliable and capable of running latest versions of ADOBE software; increase the number of students who obtain ADOBE Certifications.</p> <p>Provide TED students with cutting edge technology.</p>	<p>To update the TED lab at DMHS \$25,000</p> <p>Update labs at MHS and RCHS. \$50,000</p> <p>Purchase VEX Robotics Equipment for MHS and DMHS \$2,000.</p>	<p>Continue to develop student ability to use technology as a means of effectively transitioning ideas out of their heads and into a virtual world.</p> <p>Continue to develop student ability to use technology as a means of effectively transitioning ideas out of their heads and into a virtual world.</p> <p>Enhance prototyping and evaluative aspects of the Design Process. DMHS</p>
We Believe:	Based on this belief we seek to: (Goal)	Therefore we need: (Input)	In order to: (Output)
<p>We believe that it is our duty to educate all students by helping them to develop ways of thinking that are transferable to any number of careers and transferable to other content areas. We believe that we have entered an "Innovation" era where the accumulation of content knowledge is no longer sufficient to secure success. The content knowledge must be</p>	<p>Increase content understanding for all special populations students, but specifically for our LEP population by June 2017.</p>	<p>Collaborate with the Vocational Rehab Department in August of 2016.</p>	<p>Establish protocols for meaningful collaboration among students that will among other things reduce the negative impact that language barriers may have on our LEP students.</p>

We Believe:	Based on this belief we seek to: (Goal)	Therefore we need: (Input)	In order to: (Output)
	<p>Increase graduation rate in general but specifically for our EC completers by June 2018.</p> <p>Increase the participation of female students in Technology Classes by June 2018.</p> <p>Increase Student ability to think analytically</p> <p>Increase student ability to think critically (to ask good questions)</p> <p>Increase student ability to think creatively-</p>	<p>Collaborate with the Vocational Rehab Department in August of 2016.</p> <p>Administer Interest Inventories and use the results of the inventories to create a list-serve of students who may be interested in any aspect of design and target short promotional videos, announcements, and articles to their email. \$0</p> <p>Continue to support Robotics LCO with necessary VEX equipment and continue to support VEX competitions. \$5,000.</p> <p>Purchase diagnostic and instructional software for Auto-Technology Classes. \$3500</p> <p>Purchase diagnostic equipment for Health Science Classes. \$1500</p> <p>Purchase diagnostic equipment for EMT class. \$4,000</p> <p>Continue to support Exploring Computer Science Class. \$0</p> <p>Professional Development: Purchase of "Most Likely to Succeed" for all CTE staff. \$1500</p> <p>Revise/update Intro to Design LCO course outline and projects.</p>	<p>Assist teachers in identifying students who can benefit from the services that Vocational Rehab offers.</p> <p>Promote a more inclusive view of technology and design.</p> <p>Grant students access to equipment that will help them to measure, examine and deconstruct information in order to increase understanding of content or particular problem.</p> <p>Afford teachers the skills necessary to facilitate student presentation of work and guide students in the process of both defending their solutions/rationale and providing other students with critical feedback.</p> <p>Continue to develop student capacity for creative problem solving and the application of CTE content to solve problems.</p>

We Believe:	Based on this belief we seek to: (Goal)	Therefore we need: (Input)	In order to: (Output)
		Provide instructional supplies to support project based learning across all content areas. \$20,000	
<p>We believe that the Career Skills, Technology, and Education that we provide in CTE classes can be greatly enhanced when students are given the chance to apply them in Real-World situations.</p>	<p>Remove identified barriers that exist in student success in post-secondary Nursing programs.</p> <p>Make students, parents and community aware of the excellent opportunities that exist for students in a Health Science pathway within Rockingham County.</p> <p>Provide students with credentials that will enhance their ability to obtain high-wage and high demand employment.</p> <p>Provide fire fighter students with credential that is generally required prior to employment as a fire fighter.</p> <p>Secure new internship opportunities and continue to monitor intern progress.</p>	<p>Arrange a work-meeting with RCC, RCS science teacher(s), and Health Science teachers over the summer of 2016. \$500</p> <p>Produce promotional video and brochures. \$2,000</p> <p>Provide Credential exams for students- \$20,000</p> <p>Secure a 25% EMT teacher \$12,000</p> <p>Travel Expense: \$1200</p>	<p>Coordinate with RCC and RCS core science teachers to detail how our Health Science classes and our Physiology and Anatomy high school class can be aligned to prepare students for the college level Anatomy and Physiology Class.</p> <p>Help students take advantage of the opportunity for a high-wage and high-demand career within the county/region.</p> <p>Afford students the opportunity to obtain certain industry recognized credentials prior to graduating from high school and to encourage students to continue in a 2-yr program after graduation.</p> <p>Afford students at RCHS the opportunity to obtain EMT certification.</p> <p>Make prospective CCP students, parents and community aware of the opportunities that exist between RCS and RCC</p>

Proposed CTE Classes Offered 2016-17	DMHS	MHS	RHS	RCHS
AA21 - Animal Science I				
AA23 - Animal Science II Small Animal				
AP41 - Horticulture I				
AP44 - Horticulture II Landscaping				
AS31 - Agriculture Mechanics I				
AS32 - Agriculture Mechanics II				
AU10 - Agriscience Applications				
BD10 - Multimedia and Webpage Design				
BF05 - Personal Finance				
BF10 - Principles of Business and Finance				
BM10 - Microsoft Word Power Point Publisher				
BM20 - Microsoft Excel and Access				
CC45 - Career Management				
CS95 - CTE Advanced Studies				
CS97 - CTE Internship				
FA31 - Apparel and Textile Production I				
FA32 - Apparel and Textile Production II				
FC11 - Principles of Family and Human Services				
FE11 - Early Childhood Education I				
FE60 - Parenting and Child Development				
FI51 - Interior Design I				
FI52 - Interior Design II				
FN41 - Foods I				
FN42 - Foods II - Enterprise				
HB11 - Biomedical Technology I				
HB12 - Biomedical Technology II				
HN43 - Nursing Fundamentals				
HU10 - Health Team Relations				
HU40 - Health Science I				
HU42 - Health Science II				
IC61 - Drafting I				
IC62 - Drafting II - Architectural				
IV22 - Drafting II - Engineering				
IC63 - Drafting III - Architectural				
II31 - Adobe Visual Design				
II33 - Adobe Video Design				
IL89 - Introduction to Design				
IP11 - Introduction to Public Safety				
IP31 - Fire Fighter Technology I				
IP32 - Fire Fighter Technology II				
IP33 - Fire Fighter Technology III				
IT11 - Introduction to Automotive Service				
IT16 - Automotive Service I				
IT17 - Automotive Service II				
ME11 - Entrepreneurship I				
ME11 - Entrepreneurship I Co-op				

Proposed CTE Classes Offered 2016-17	DMHS	MHS	RHS	RCHS
MH31 - Sports and Entertainment Marketing I	Yellow	Red	Blue	
MH31 - Sports and Entertainment Marketing I Co-op	Yellow	Red		
MH32 - Sports and Entertainment Marketing II	Yellow			Grey
MH32 - Sports and Entertainment Marketing II Co-op	Yellow			
MH42 - Hospitality and Tourism		Red		
MH42 - Hospitality and Tourism Co-op		Red		
MI21 - Fashion Merchandising		Red		
MI21 - Fashion Merchandising Co-op		Red		
MM51 - Marketing	Yellow	Red		
MM51 - Marketing Co-op		Red		
TE11 - Technology Engineering and Design	Yellow	Red		
TE12 - Technological Design	Yellow			
TE13 - Engineering Design		Red		
TL18 - Robotics I	Yellow	Red		
TL19 - Robotics II	Yellow	Red		
LCO-Introduction to Computer Science	Yellow			
IB Business Management	Yellow			



McMichael Graduates in Front of Electric Powered Car



Early Childhood Program at Reidsville High School



Morehead High and McMichael High Vex Robotics State Champions

Rockingham County Schools CTE Programs Performance Data 2014-15

LEA	ELA	Math	Technical Attainment	Secondary School Completion	Student Graduation Rates	Secondary Placement	Non-Traditional Participation	Non-Traditional Completion
Durham	47.5%	23.7%	65.9%	99.7%	94.0%	97.8%	22.5%	36.4%
Johnston	54.9%	36.7%	83.0%	98.8%	96.0%	95.6%	38.5%	35.5%
Wake	70.1%	57.0%	86.6%	99.2%	97.0%	98.6%	28.6%	29.7%
Guilford	44.4%	28.6%	73.6%	99.6%	98.0%	92.1%	16.1%	25.0%
Harnett	49.3%	34.4%	71.7%	98.7%	94.0%	94.4%	39.8%	33.7%
Alamance	52.0%	41.5%	79.3%	98.7%	95.0%	94.6%	43.2%	32.2%
Nash-Rocky Mount	42.0%	40.0%	74.0%	98.8%	96.0%	93.7%	34.3%	30.5%
Randolph	46.6%	33.8%	82.8%	98.5%	97.0%	98.1%	42.6%	29.4%
Lee	37.4%	29.8%	76.0%	100.0%	99.0%	91.7%	27.6%	39.4%
Rockingham	40.5%	32.3%	82.7%	98.7%	97.0%	96.3%	32.9%	33.2%
Wilson	39.8%	43.2%	67.2%	98.7%	93.0%	94.2%	36.1%	31.4%
Chapel Hill-Carboro	60.7%	40.2%	74.2%	100.0%	93.0%	89.7%	26.0%	30.2%
Chatham	50.9%	34.1%	83.8%	98.7%	96.0%	97.4%	49.1%	39.3%
Granville	49.1%	33.2%	67.5%	98.3%	92.0%	96.6%	36.6%	31.4%
Franklin	45.1%	31.0%	78.3%	98.2%	95.0%	96.4%	35.9%	26.7%
Orange	53.8%	30.2%	80.5%	99.1%	96.0%	95.0%	28.1%	26.2%
Edgecombe	38.3%	20.5%	62.1%	98.3%	93.0%	91.1%	52.9%	41.6%
Vance	35.0%	31.6%	54.9%	100.0%	97.0%	89.7%	51.3%	35.0%
Asheboro City	46.7%	38.5%	79.0%	100.0%	99.0%	96.3%	26.7%	29.0%
Person	50.0%	32.5%	75.7%	97.7%	93.0%	94.1%	30.9%	16.5%
Warren	45.7%	26.1%	41.2%	100.0%	94.0%	100.0%	28.8%	26.9%
Caswell	46.2%	27.6%	73.6%	95.7%	88.0%	100.0%	37.3%	19.8%

Visit us on the web at:
www.rockcte.org



Ms. Vivian Moore and her RHS HOSA Students

ROCKINGHAM COUNTY



Great Staff ★ Great Students ★ Great Opportunities

CAREER & TECHNICAL
EDUCATION