Oak Ridge High School College, Career, and Technical Education Academies

Alignment to Oak Ridge Schools Key 7 is indicated in **bold**. Key 7 states "All students participate in a dual enrollment, AP Coursework, industry certification, or military preparation program by graduation

Advanced Manufacturing Academy - *Key 7 in Bold*

Year	1	2	3	4
Welding	Welding I Intro to Welding	Welding II Principles of Welding	**Dual Enrollment Welding + American Welding Society Cert DE w/TCAT Knoxville**	

Middle Technical College is an option for Mechatronics Engineering for the Jr/Sr years. Students attend RSCC classes for ½ day and high school classes for ½ day. Students have the opportunity to graduate high school with an A.A.S degree.

Arts, A/V Technology & Communications Academy - *Key 7 in Bold*

Year	1	2	3	4
Broadcasting	Broadcasting I	Broadcasting II **Dual Credit with Pellissippi State CC**	Broadcasting III	**Applied Arts Practicum**
Digital Arts	Digital Arts I	Digital Arts II **Adobe Certified Associate Certifications**	Digital Arts III **Adobe Certified Associate Certifications**	

For Additional Credit—Visual Art and AP Studio Art

Business Academy - *Key 7 in Bold*

Year	1	2	3	4
Accounting	Introduction to Business and Marketing	Accounting I (Honors option)	Accounting II (Honors option)	**Advanced Placement Statistics**
Entrepreneurship		Marketing and Management	Entrepreneurship	**Virtual Enterprise Co-op/Work-Based Learning**
Business Management		Accounting I (Honors option)	Business Management	
Office Management	Microsoft Office 1A/1B **Microsoft Office Certification**	Business Communication		**Advanced Computer Applications Microsoft Office Certification Dual Credit with Pellissippi State CC or Roane State CC**

For Additional Credit—Microsoft Office 1A/1B satisfies one of three credits required for an elective focus when taken in conjunction with other Business

Education & Training Academy - *Key 7 in Bold*

Year	1	2	3	4
Early Childhood Education Careers	Early Childhood Education Careers I	Early Childhood Education Careers II	Early Childhood Education Careers III **Dual Enrollment w/ Roane State CC**	**Early Childhood Education Careers IV Work-Based Learning Practicum**

For Additional Credit-- Personal Finance

Health Science Academy - *Key 7 in BOLD*

Year	1	2	3	4
Nursing Services	No Freshman Courses	Anatomy & Physiology Honors or Medical Therapeutics	Anatomy & Physiology Honors or Medical Therapeutics	**Dual Enrollment Nursing Services Certified Nursing Associate DE w/Tennessee College of Applied Technology**
Therapeutic Services		Anatomy & Physiology Honors or Rehabilitation Careers	Anatomy & Physiology Honors or Rehabilitation Careers	**Clinical Internship Dual Enrollment w/ Roane State CC Pharmacological Sci. Industry Certification**
Sports and Human Performance		Anatomy & Physiology Honors or Rehabilitation Careers	Anatomy & Physiology Honors or Rehabilitation Careers	**Clinical Internship Dual Enrollment w/ Roane State CC Pharmacological Sci. Industry Certification**
Health Services Administration		Introduction to Business and Marketing	Business Management	**DE Health Information Technology (Independent Study eCampus at RSCC)**

IT & Cyber Security Academy - *Key 7 in BOLD*

Year	1	2	3	4
Programming	Coding A and Coding B	AP Computer Science Principles	AP Computer Science	**Students are encouraged to pursue Dual Enrollment and certifications below.***

Middle Technical College is an option for Cyber Security for the Jr/Sr years. Students attend RSCC classes for ½ day and high school classes for ½ day. Students have the opportunity to graduate high school with an A.A.S degree.

STEM Engineering by Design- *Key 7 in BOLD*

	1	2	3	4
Engineering and Technology	Foundations of Technology **AutoDESK OSHA-10 Snap-on (PMI)**	Technological Design **AutoDESK OSHA-10 Snap-on (PMI)**	Advanced Technological Applications **AutoDESK OSHA-10 Snap-on (PMI)** **DE Advanced Manufacturing w/TCAT**	Engineering Design **AutoDESK OSHA-10 Snap-on (PMI)** **DE Advanced Manufacturing w/TCAT**
			DE Advanced Manufacturing with RSCC (MECH/Robotics)	**DE Advanced Manufacturing with RSCC (MECH?Robotics)**

Transportation Academy - *Key 7 in BOLD*

Year	1	2	3	4
Automotive Maintenance and Light Repair			Dual Enrollment Automotive Maintenance & Light Repair **DE w/Tennessee College of Applied Technology Automotive Service Excellence Certification Precision Measurement Instruments Certification**	Dual Enrollment Automotive Maintenance & Light Repair **DE w/Tennessee College of Applied Technology Automotive Service Excellence Certification Precision Measurement Instruments Certification**

Welding I and Welding II can be electives for this program of study, but not count toward concentrator status

The courses below are taken either as independent study or through Middle Technical College.
Upon completion of these courses, the credit added to the high school transcript.
CompTIA Network+ Certification Prep CITC 1302 | CompTIA A+ Certification Prep CITC 1331
CompTIA LINUX Certification Prep CITC 1333 | CompTIA Security+ Certification Prep CITC 2326