

# Human Body Systems

**8380 36 weeks**

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## Acknowledgments

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Tracy Cornwell, Bethel High School, Hampton City Public Schools  
Ann Craddock, Virginia HOSA Specialist, Charlottesville  
LaTriece Haskins, Swansboro Elementary School, Richmond City Public Schools  
Sarah McDonald, Lakeland High School, Suffolk City Public Schools

Correlations to the Virginia Standards of Learning were reviewed and updated by the following:

Norma J. Bonney, Kempsville High School, Virginia Beach City Public Schools  
Anne F. Markwith, New Teacher Mentor, Gloucester County Public Schools  
Cathy Nichols-Cocke, PhD, Fairfax High School, Fairfax County Public Schools  
Caroline C. Wheeler, M.T., Secondary English, Richmond

The framework was edited and produced by the CTE Resource Center:

Nathan K. Pope, Writer/Editor  
Kevin P. Reilly, Administrative Coordinator

Michele Green-Wright, Specialist, Health and Medical Sciences & Related Clusters  
Office of Career, Technical, and Adult Education  
Virginia Department of Education

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## Course Description

**Suggested Grade Level:** 10 or 11 or 12

**Prerequisite:** 8379

In this specialization course for Project Lead the Way (PLTW), students explore the human body systems of communication, power, and movement. To do this, students are taught the body's components, tissues, molecules, and cells, as well as concepts of homeostasis and body system defenses.

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## Entrepreneurship Infusion Units

Entrepreneurship Infusion Units may be used to help students achieve additional, focused competencies and enhance the validated tasks/competencies related to identifying and starting a

new business venture. Because the unit is a complement to certain designated courses and is not mandatory, all tasks/competencies are marked “optional.”

## Appendix: Credentials, Course Sequences, and Career Cluster Information

### Industry Credentials: Only apply to 36-week courses

- College and Work Readiness Assessment (CWRA+)
- National Career Readiness Certificate Assessment
- Project Lead the Way End-of-Course Assessments
- Workplace Readiness Skills for the Commonwealth Examination

**Concentration sequences:** *A combination of this course and those below, equivalent to two 36-week courses, is a concentration sequence. Students wishing to complete a specialization may take additional courses based on their career pathways. A program completer is a student who has met the requirements for a CTE concentration sequence and all other requirements for high school graduation or an approved alternative education program.*

- Principles of the Biomedical Sciences (PLTW) (8379/36 weeks)

<b>Career Cluster: Health Science</b>	
<b>Pathway</b>	<b>Occupations</b>
<b>Biotechnology Research and Development</b>	<b>Biochemist Cell Biologist Medical, Clinical Laboratory Technician Research Assistant</b>
<b>Diagnostics Services</b>	<b>Cardiovascular Technologist Computer Tomography (CT) Technologist Medical, Clinical Laboratory Technician Medical, Clinical Laboratory Technologist Nuclear Medicine Technologist Phlebotomist Radiologic Technologist, Radiographer Radiologist</b>

<b>Career Cluster: Health Science</b>	
<b>Pathway</b>	<b>Occupations</b>
<b>Therapeutic Services</b>	<b>Athletic Trainer</b> <b>Audiologist</b> <b>Certified Nurse Aide</b> <b>Optician</b> <b>Physical Therapist</b> <b>Surgical Technologist</b>

<b>Career Cluster: Science, Technology, Engineering and Mathematics</b>	
<b>Pathway</b>	<b>Occupations</b>
<b>Engineering and Technology</b>	<b>Biomedical Engineer</b>
<b>Science and Mathematics</b>	<b>Biologist</b> <b>Chemist</b> <b>Toxicologist</b>