



Health Sciences Syllabus

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Course Description:

Health Sciences gives high school students an opportunity to study medical terminology, basic anatomy and physiology, and procedures and principles important to health care professions. This course also explores the numerous opportunities available in health care professions.

Health Sciences Level 2 provides students with the opportunity to job shadow in related health fields. If students wish to earn their Licensed Nursing Assistant (LNA) certification, they will have the opportunity to enroll in the evening and weekend LNA program (which is currently on pause due to COVID restrictions).

Throughout both levels of Health Sciences, students will develop their Digital Assessment Tool (DAT) to present to a panel of professionals at the completion of the second level of the program.

Classroom Expectations and Goals:

Students and the Instructor will collaborate in the first few days of school to create a detailed set of guidelines to follow for the Health Science Classroom. This information will be made available to parents and guardians as well. Basic expectations are:

- Follow the HACTC Mission Statement: Respect. Engage. Learn. Work. Serve. Grow.
- Students and Staff will maintain a Respectful and Professional Environment.
- Students and Staff maintain safety in classroom and lab spaces.
- Students and Staff will communicate in a clear and timely manner in the case of absence.

Assignment Policy:

Grades are determined by dividing the points earned by the total number of points available in the grading period. Assignments are to be handed in on time. If late, 10 points off per day (down to a 50). If students don't hand in an assignment, they will receive a grade of zero.

Credits Earned:

Students may earn a total of six credits over two years: four elective credits, one technology credit and one science credit.

Articulation Agreements:

- Northern Vermont University - Johnson
- Keene State College

Industry Recognized Credentials:

- Basic Life Support (BLS) for Health Care Providers: CPR & AED
- First Aid
- Bloodborne Pathogens
- WorkKeys National Career Readiness Certification (NCRC)

Common Standards Assessed in Every Program:

Communication: ESS02.01 Select and employ appropriate reading and communication strategies to learn and use technical concepts and vocabulary in practice.

Leadership and Teamwork: ESS07.03 Employ teamwork skills to achieve collective goals and use team members' talents effectively.

Technical Skill: ESS10.01 Employ information management techniques and strategies in the workplace to assist in decision-making.

Problem Solving/Critical Thinking: ESS03.01 Employ critical thinking skills independently and in teams to solve problems and make decisions (e.g., analyze, synthesize and evaluate).

Units of Study:

Level 1

- Introduction to Health Sciences
- Core Healthcare Knowledge - Past, Present, and Future
- Career Exploration and College Readiness
- Introduction to Medical Terminology
- The Human Body: Structure, Function and Life Processes
- Cells
- Tissue
- Integumentary System
- Senses
- Nervous System
- Skeletal System
- Muscular System
- Endocrine System
- Cardiovascular System
- Respiratory System
- Lymphatic/Immune Systems
- Digestive System
- Urinary System
- Reproductive System

Level 2

- Career Exploration and College Readiness
- Understanding Health Care Settings and Systems
- Introduction to Medical Ethics
- Infection Control
- The Reproductive System and Human Development
- Introduction to Psychology
- Biopsychology
- Sensation and Perception
- Consciousness, Mindfulness and Addiction
- Thinking and Intelligence
- Memory
- Emotion and Motivation
- Personality
- Social Psychology
- Stress, Lifestyle, Health and Nutrition

Concurrent Enrollments Offered:

- Medical Terminology, River Valley Community College, 3 credits
- Introduction to Psychology, RVCC, 3 credits

Grading Categories and Weights:

All assignments fall into one of the categories below:

Communication	25%
Leadership & Teamwork	25%
Problem Solving & Critical Thinking	25%
Technical Skills	<u>25%</u>
Total	100%

Standards Unique to Health Sciences:

- Demonstrates Understanding of Health Careers Encompassing the Educational Requirements, Job Descriptions, Career Ladder Options, and Employment Opportunities
(VT Standards: 1.18, 1.19, 3.15, 3.16, 7.5)
- Demonstrates the Communication Skills Necessary for Good Interpersonal Relationships, Including Use of Computers
(VT Standards: 1.13, 1.14, 1.15, 1.18, 1.19, 1.20, 2.2, 2.3)
- Lists, Define, and Uses the Medical Terms and Abbreviations Commonly Used in the Health Field
(VT Standards: 1.17, 5.19, 5.21, 7.14)
- Demonstrates WorkPlace Safety Skills
(VT Standards: 7.14, 7.18)
- Demonstrates Knowledge of Basic Human Anatomy and Physiology, Body Systems, Organs, and Functions
(VT Standards: 7.14, 7.18)