

Career and Technical Education: Health Sciences Biomedical Technology Course Syllabus



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Office Hours: 3:10-3:30

Course Description:

This course focuses on cell biology and cancer, infectious diseases, pathology, and biomedical research utilizing curriculum developed by the North Carolina Association for Biomedical Research (NCABR) and the National Institutes of Health (NIH). Students will learn about careers in biotechnology within the context of the course content. Projects, teamwork, and demonstrations serve as instructional strategies that reinforce the curriculum content. English language arts and science are reinforced in this course. Work-based learning strategies appropriate for this course include service learning, and job shadowing. Apprenticeship and cooperative education are not available for this course. Biology is recommended as good preparation for this course.

Course Objectives:

1. To expose the students to different health occupations, particularly those in Biomedical Technology.
2. To provide guidance to assist students in making better decisions in health related issues.
3. To provide the students an edge in transitioning from high school to future health career goals.
4. To provide the students with opportunities to discuss/debate their views related to biomedical technology and advances in health care.

Teaching Materials:

1. Biomedical Technology Curriculum – student activities
2. North Carolina Association for Biomedical Research (NCABR)
3. National Institutes of Health (NIH)
4. Videos
5. Websites as related to the curriculum
6. Handouts, power points, worksheets, etc.

Curriculum Standards:

1. Understand biomedical research
2. Understand the use and care of animals in biomedical research
3. Understand the challenges to biomedical research
4. Understand cell biology and cancer
5. Understand emerging and re-emerging infectious diseases
6. Understand pathology and forensic science

Classroom Supplies:

1. Three ring binder with dividers
2. Pencils/Pens
3. Glue sticks

Academic Integrity:

The policy on academic integrity can be found in the Haywood County Code of Student Conduct. All students in this class are expected to abide by this code. CHEATING will not be tolerated.

Grades: Daily work accounts for 40%

Projects account for 30%

Quizzes/Tests account for 30%

*Late work = no higher than a 50

Students take a state exam at the end of the semester. This exam will count 25% of the final grade for the semester. Students are encouraged to prepare by attending review sessions, reviewing notes and power points and studying for the exam. Internet Use:

Since healthcare is an ever-changing environment, the students will have assignments that will require research on the internet.

Field trips: In order to be eligible for field trips, you must meet the following requirements:

- 1) No ISS or OSS
- 2) 3 or less absences per 9 weeks