

Health Science I

Course Number: 8417100

Course Credit: 1

Course Description:

This course is part of the secondary Health Core consisting of an overview of the human body, both structurally and functionally with emphasis on the pathophysiology and transmission of disease. Medical terminology is an integral part of the course.

Course Outcomes:

Discuss and describe an overview of the human body, including organization and chemical process

- Define basic structural and functional organization of the human body including chemical, cellular, tissue and organ systems.
- Identify body places, directional terms, quadrants and cavities.
- Define the chemical processes that maintain life.

Use correct medical terminology relating to body structure and function

- Use anatomical terminology to describe location of parts or areas of the body or to describe the relation of one part to another.
- Use correct medical terminology including roots, prefixes and suffixes to indicate anatomical structures.

Identify cells and tissues microscopically and macroscopically and relate their specialized functions

- Describe cell structure and function in healthy tissue.
- Describe cell structure and function in diseased tissue.
- List the four main types of tissue.
- Define the location and function of tissues.

Identify and discuss the structure and function of the body systems in relation to health and disease

- Describe the structure and function of each body system across the lifespan.
- Identify common diseases and disorders of each body system including etiology, prevention, pathology, diagnosis and treatment/rehabilitation.
- Identify health careers related to each body system.
- Perform skills related to specific body systems.

Identify and explain factors relating to the transmission of disease

- List and explain the direct and indirect causes of disease.
- Explain the chain of transmission.
- Discuss the immune system.
- Define and explain homeostasis.
- List and discuss the body's defense mechanisms.
- Describe DNA and its role in human heredity.
- Describe the role of human genetics in relation to genetic disease.
- Identify current issues related to genetic research.

Grading Scale:

100-90	A
89-80	B
79-70	C
69-60	D
59-0	F

Classroom Grading Policy:

Tests	35%
Quizzes	15%
Homework	10%
Classwork	15%
Labs/Projects	25%

Instructor Contact Information: Mrs. Angela Mates, RN BSN angelamma@leeschools.net School phone 239-561-0060

Supplies Needed:

- ❖ Pencils/pens
- ❖ Colored pencils
- ❖ Folder/binder with paper
- ❖ 3x5 index cards (3 pack minimum)
- ❖ \$20.00 Equipment/lab fee

Optional Supplies that will help enhance learning:

- ❖ Non-latex exam gloves
- ❖ Pack of white or colored computer paper
- ❖ Hand sanitizer
- ❖ Tissues

Rules/Expectations:

- Cell phones/electronic devices, ear buds must be off and out of sight at ALL times (no exceptions). See code of conduct book, the penalties are described in full details.
- Please read the code of conduct book regarding the tardy policy. It will be enforced as written. **By reading and reviewing the Code of Conduct book at the beginning of the year, parent and student signatures indicate an understanding of district/school rules.
- Absences – Clinical and classroom time is critical to the success of this class. Absences will be based on the Lee District Medical Academy guidelines that are followed by all District medical academies.
- No late work will be accepted with the exception of excused absences or extenuating circumstances
- It is the student's responsibility to get make-up work, complete it, and turn it in by the due date.
- No gum, candy, food, or drinks in class. Water is permitted. Medical classrooms/labs are unsafe areas for food consumption.
- Adhere to all district rules detailed in the student code of conduct book and the Medical Academy Handbook.
- Code of Conduct: <http://www.leeschools.net/dept/stusvc/Code%20Conduct.htm>
- More than one referral in the medical academy and ISS for any reason will be grounds for removal from the program. Commitment to professionalism and high standards is critical due to increased responsibility.

Communication:

Lee County School District has developed a phone and internet based communication tool that provides access to your child's grades, attendance, teacher email, and cafeteria balance.

Parentlink (internet sign in)

<http://parentlink.leeschools.net/html/ContentBase/Content/Home/>

School District Calendar – <http://www.leek.12.fl.us.schools.sfm/>

Please call the guidance office to schedule a conference as needed.