



**Room: 665 Medical Magnet**  
**Course #17003201**  
**Research III**  
**2018-19**  
**Instructor: -Mr. Barrow**

**TEXT:** TBA

**CLASS TIME:** 10:52am – 12:22pm {Green Day Block #3}  
9:16am – 10:46am {Orange Day Block #6}  
1:10pm – 2:40pm {Orange Day Block #8}

**PLANNING/OFFICE HOURS:** Appointment Only!

**COURSE DESCRIPTION:**

The purpose of this course is to provide students with an opportunity to learn about geopolitical issues surrounding health, ethics of global health, health disparities, and specific information about the culture, the health of the communities where they will be working, the cause of disease(s) and aspects of anatomy & physiology.

**COURSE OBJECTIVES:**

1. **Knowledge:** -Compare and contrast health systems/policies/community resources/current and emerging global health issues.
2. **Knowledge:** -Plan and develop an intervention that addresses an identified health issue: examples include developing culturally appropriate health education materials for dental health, anemia prevention, and chronic disease prevention.
3. **Knowledge:** -Students will apply knowledge synthesized from medical/nursing science to evidence-based nursing care delivery.
4. **Knowledge:** - Students will understand anatomical structures, and function, and physiological processes.
5. **Knowledge:** - Compare and distinguish the basic groups of microbes, including prokaryotic microbes (Archaea, Bacteria), and Viruses, and eukaryotic microbes.
6. **Knowledge:** - Summarize mechanisms of animal defenses to infection, including primary defenses, innate immunity, and acquired immunity.
7. **Effective thinking:** -Our students will use a variety of thinking methods such as, critical thinking, conceptual thinking, implementation thinking, and innovative thinking, to make decisions, solve problems, evaluate information, create new processes, and plan strategies.
8. **Communication:** -Develop inter-professional and intercultural communication skills that will lead to effective collaboration, planning and delivering of patient/population-centered care in a global health setting.
9. **Communication:** -Students will demonstrate effective communication skills in therapeutic interactions, inter-professional information sharing, and scholarly dissemination.

10. **Technological Aptitude:** -Students will competently use technology to access information necessary for identifying trends used in decision making, promoting quality improvement, and preserving safety, to provide patient care, collaborate with inter-professional teams, and to continuously advance the nursing profession.
11. **Lifelong learning:** - Students will continue to advance their education to maintain knowledge and medical/nursing skills necessary to provide quality patient care by engaging into systematic inquiry, investigation, and new knowledge generation.
12. **Lifelong learning:** -Demonstrate competency in the areas of reading, writing and mathematics based on the Sunshine State Standards and National Science Education Standards.
13. **Cultural Competence:** - Students will demonstrate willingness to learn about other cultures and use the information to collaborate to provide care that meets individuals' cultural and religious needs.
14. **Leadership:** - Students will apply knowledge of leadership theory and demonstrate leadership behaviors that complement particular situations.
15. **Ethics:** - Explore values and ethics for medical profession practice when working with patients and communities in a global health setting.

#### **CORE CURRICULUM STUDENT LEARNING OUTCOMES:**

1. **Core SLO 1:** Listen and effectively, communicate ideas through written, spoken and visual means. (communication)
2. **Core SLO 2:** Think critically via classifying, analyzing, comparing, contrasting, hypothesizing, synthesizing, extrapolating and evaluating ideas. (Critical thinking)
3. **Core SLO 3:** Apply information literacy/research skills to assist their systematic process of critical thought; articulating the problem; gather information from multiple sources and venues; evaluating the accuracy/thoroughness/timeliness of the collected data, and determining when/if the problem has been satisfactorily resolved. (Information Literacy/Research)
4. **Core SLO 4:** Compare and contrast self and others and explain their interdependence in terms of historical, social, political, economic, psychological, health, and ethical factors.
5. **Core SLO 5:** Demonstrate good citizenship and service to one's community. Students also benefit when they engage in free intellectual inquiry seeking truth, understanding and appreciating self as well as a readiness to learn from and about different cultural and/or linguistic perspectives (Self & Others)
6. **Core SLO 6:** Apply and evaluate quantitative reasoning through the disciplines of mathematics, computational science, laboratory science, science, selected social sciences and other like-minded approaches that require precision of thought. (Quantification)
7. **Core CLO 8:** Demonstrate positive interpersonal skills by adhering to the principles of freedom, justice, equality, fairness, tolerance, open dialogue, and concern for the common good. (Interpersonal Skill)

#### **STUDENT LEARNER OUTCOMES:**

Upon completion of the course, students should be able to:

1. Understand historical perspectives of public health and how these perspectives continue to influence public health today.

2. Examine how economic and political factors have affected public health.
3. Define the underlying causes of health.
4. Provide models of understanding health and disease.
5. Describe the effect of political and economic policies on health.
6. Explain how the structure of societies impacts the health of a population.
7. Discuss the influence of social inequalities on the quality of health of a population.
8. Define factors that influence health at all levels of society.
9. To demonstrate the ubiquity and diversity of microorganisms in the human body and the environment.
10. To illustrate the characteristics features of microorganisms and the diseases they cause.
11. To explore mechanisms by which microorganisms cause disease.
12. To show how the human immune system counteracts infection by specific and nonspecific mechanisms.
13. To show the antimicrobial activity of disinfectants in the context of the patient and the environment.
14. To illustrate the microbiological reasons for, and the importance of aseptic techniques in patient management.
15. To demonstrate the contribution of the microbiologist and the microbiology laboratory to the diagnosis of infection including specimen collection and the role of the nurse in carrying this out.

#### **COURSE REQUIREMENTS:**

These requirements include, but are not limited to the benchmarks from the Sunshine State Standards that are most relevant to this course. Benchmarks that correlate with a specific course requirement may also be addressed by other courses as appropriate.

Among the requirements are the following:

- Class Attendance
- Class Participation
- Group Projects
- Class Website
- Bringing materials to class: books, notebook, pencil, and paper.
- Having a willingness to learn and work extremely hard in this course to complete all the goals the subject matter requires.
- Rendering the hours of study time and homework to be successful

#### **CLASS BEHAVIOR:**

Appropriate classroom conduct in accordance with the School Board of Broward County Code Book is required and expected of all students. In addition, proper respect to and from all students is required for a pleasant and efficient learning environment. The following discipline plan will be used:

- Warning #1 - Verbal Reprimand
- Warning #2 - Student Teacher Conference
- Warning #3 - Parent Contact
- Warning #4 - Parent/Teacher Conference
- Warning #5 - Administrative Referral

**TEACHER SUBSTITUTES:**

IN THE CASE OF TEACHER'S ABSENCE, STUDENTS ARE TO TREAT THE SUBSTITUTE WITH PROPER RESPECT.

**BATHROOM PASSES:**

Each student will be issued/allowed **3** bathroom passes each nine-week period. **STUDENTS ARE TO USE DISCRETION, GOOD JUDGMENT AND GOVERN THEMSELVES ACCORDINGLY.**

**CELL PHONE POLICY:**

All cell phones must be turned off, or on complete silence, at **ALL** times. If the policy is violated, the cell phone will be confiscated and submitted to administration.

**GRADING:**

Students may be assessed with a content specific pretest/post test to determine skill level. FCAT reading and writing will be incorporated into overall grade. All students registered for an honors science course, must complete a science research project for submission to state and national science competitions. **Grading categories and weights are subject to change.**

A	(90%-100%)
B+	(87% - 89%)
B	(80% - 86%)
C+	(77% - 79%)
C	(70% - 76%)
D+	(67% - 69%)
D	(60% - 66%)
F	(59 and below)

Quizzes/Pop Quizzes	10%
Homework/Individual Assignments	20%
Labs/Lab Reports/Lab Notebooks	25%
Science Project(s)/Research Paper(s)/Presentation(s)/ Case Studies/Group Assignments	25%
Semester Tests (Examinations/Tests given during term/ Semester outside of Midterm/Final)	20%

**ACADEMIC ETHICS/CHEATING POLICY:**

Students are responsible for proper conduct and integrity in all their scholastic work. Students must follow instructor's instructions when completing quizzes, examinations, homework, and laboratory reports, and should ask for clarification if the instructions are not clear. In general, students should not give or receive aid when taking exams. In seeking the truth, in learning to think critically, and in preparing for a life of constructive service, honesty is imperative. Honesty in the classroom and in the preparation of papers is, therefore, expected of all students. Each student has the responsibility to submit work that is uniquely his or her own. All work must be done in accordance with established principles of academic integrity. **Cheating will NOT be tolerated.** It affects every student directly. Cheating is obtaining information from any other sources other than those prescribed/approved by the teacher for the specific assignment. Academic

dishonesty (cheating of any kind) will result in the grade of **ZERO**. Some cheating offenses include:

1. Having a cheat sheet
2. Copying from someone else's paper during a test or a homework assignment.
3. Talking during a test.
4. Plagiarism (copying ideas, word for word, without giving credit to your source)
5. Creating data for Science Fair projects or reports.
6. Copying a research paper, even with modifications, from another student, the internet or other resources.
7. Claiming a "second year" Science Fair project without conducting experimentation

**ANY STUDENT, GIVING INFORMATION TO ANOTHER, IS TO BE CONSIDERED EQUALLY GUILTY OF CHEATING AS THE STUDENT RECEIVING INFORMATION.**

The parent(s)/guardian(s), of any student who is caught cheating, will be notified of his/her (the student's) misdeeds. A member of the administration will meet with the teacher and the parent(s)/guardian(s) if necessary. A grade of **ZERO** will be given for the assignment and the student **WILL NOT** be allowed to make up the work. The teacher will also notify the sponsors of groups in which good character is a stipulation for contained membership (i.e. National Honor Society).

**PENALTIES FOR CHEATING:**

1. Automatic zero on the assignment or test
  2. Parent notification
  3. Referral to guidance, creating an official record of the incident
  4. Repeat offender will be given an administrative referral
- Please be advised that this policy is department-wide and will be strictly enforced.

**CLASS MATERIALS (COME PREPARED):**

5-6 Science Fair Boards (plus decorations/art supplies/color pencils)  
A Notebook  
Pencils (No.2 pencils) / Pens (black or blue only)  
Textbook  
3 - 4 Composition Notebooks  
Folders/3-Ring Binders  
Portfolio Covers  
Computer/Internet/Printer Access (if unavailable at home, student is to use campus resources)  
Printer paper

**ATTENDANCE:**

Academic success in any course is directly related to the amount of time and effort given the subject matter being studied. In order to be successful, daily attendance is required. However, be aware that daily effort is also required. Students should understand that daily attendance alone will not result in a passing grade for this course. In the event of an **EXCUSED** absence, it is the sole responsibility of the student to make up all work missed during the absence (including notes given in class). School Board policy dictates that a

student shall have **two days** to make up work for each day a student has an **excused absence**. **The exception for this is work that was pre-assigned.** **Pre-assigned work is due when the student returns to school.**

**MAKE UP TEST POLICY:**

Students are responsible for making up any tests or quizzes. According to School Board Policy, the student must take the test within the time frame outlined above. Missed exams and quizzes will be given the day the student returns to class. All make-up tests are entirely essay response.

**WEBSITE(S)/  
WEBSITE(S) POLICY:**

Students are required to utilize the following websites, among others, during the school year.

- 1st. <http://www.elysciencecenter.com>
  - a. Lecture notes, and other relevant material, will be found at this website.
- 2nd. <http://www.quia.com>
  - a. All students must register at QUIA.
    - i. Registration information can be found on course website.
  - b. Examinations, quizzes and web activities will be completed at this website
- 3rd. CANVAS
  - a. Secondary course website.
- 4th. <http://www.turnitin.com>
  - a. Registration information will be provided in class
  - b. Lab reports, research papers and case studies **MUST** be submitted to <http://www.turnitin.com>
- 5th. <http://www.remind.com>
  - a. All students and parents are encouraged to register at remind.com to receive any reminders from the instructor.
    - i. Registration information can be found on the course website.
- 6th. <http://docs.google.com>
  - a. All groups must register under Google docs for file sharing capacity.
    - i. Team leader **MUST** include instructor to their Google docs group.
  - b. Group members, when utilizing this website via internet access, will be able to work simultaneously on group assignments.
    - i. Group members will have the ability to view changes, corrections etc. completed by other group members.

**HOMEWORK POLICY:**

Homework will be assigned on a regular basis and includes such things as textbook readings, worksheets, laboratory reports, and projects. **NO LATE HOMEWORK ASSIGNMENTS WILL BE ACCEPTED.** If the homework assignment is not submitted on the due date, no credit will be given for that

assignment. Exceptions to this policy will only include cases that involve **excused** absences from class as indicated in the attendance section. Furthermore, if a student misses a homework assignment due to an excused absence, an alternate assignment **may** be given at the discretion of the teacher.

**PARENTAL NOTIFICATION:**

Parent(s)/ guardian (s) will be notified of your progress in this class on the following dates:

**Interim progress reports:** Sept 17<sup>th</sup> 2018, Nov 20<sup>th</sup> 2018, Feb 12<sup>th</sup> 2019 & May 1<sup>st</sup> 2019

**Report Cards Issued:** Nov 14<sup>th</sup> 2018, Jan 30<sup>th</sup> 2019, April 16<sup>th</sup> 2019 & June 26<sup>th</sup> 2019

If the student is in danger of failing, or have dropped two letter grades after interims are issued, the parent(s)/ guardian(s) will receive additional notification.

**NOTE TO STUDENT:** If there are any problems or questions, please schedule an appointment. Assistance can be arranged, using school resources, during planning hours or after school. **DO NOT HESITATE TO ASK!!!**

**PARENT/GUARDIAN:** Please check with your child frequently to see how he or she is doing in class. It is important to be aware of his or her progress. Please view course website, <http://www.elysciencecenter.com> to view updates on syllabus and **IMPORTANT** class announcements and reminders. If you have any questions, please contact me at **754-322-0950**, or the guidance department, to schedule an appointment.