**APPH 3000**

**Survey of Medicine**

**Georgia Institute of Technology**

Instructor: Gregory Moore, MD Stamps Health Services Physicians

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Office hours: By appointment

Class meets: Lecture/Discussion: Location:

3 hours credit

Required Texts: As assigned

Prerequisites: BIO 1510 and (CHEM 1310 or CHEM 1211K or CHEM 1212K or CHEM 1311) and CHEM 2311

Course Description: This course will approach a variety of medical topics through case studies. Cases will focus on ways in which cognitive and perceptual processes influence students understanding of health and illness. Biological, psychological, social and cultural differences influencing well-being will be addressed. Each week a new case will be presented along with a lecture on related anatomy, physiology, and pharmacology. Discussion will focus on specific details of the case. A 1-2 page paper will be required weekly addressing important, difficult, or controversial aspects of the case.

**Course objectives:**

1. Demonstrate an understanding of the scientific, social, and cultural aspects of a variety of diseases and conditions.
2. Demonstrate an understanding of ways in which psychological, social and biological factors influence perceptions and reactions to the world.
3. Demonstrate understanding of fundamental aspects of the practice of medical diagnosis and treatment.
4. Develop critical analysis and reasoning skills (comprehension, evaluation, application and incorporation of information) necessary for successful graduate study in medically related fields.

**Evaluation:**

Topic papers (10) 10% each 80% Total

Class Presentations (2) 5% each 10% Total

Class discussion/participation 10%

100%

Final Grade: A = 90-100 B = 80-89 C = 70-79 D = 60-69 F = < 60

**Note**: Timely preparation of topic papers will ensure that deadline extensions will not be needed.

ACADEMIC HONOR CODE

**Cheating off of another person’s test or quiz is unethical and unacceptable. Cheating off of anyone else’s work is a direct violation of the GT Academic Honor Code, and will be dealt with accordingly.**

**Use of any previous semester course materials is allowed for this course; however, I remind you that while they may serve as examples for you, they are not guidelines for any other coursework that may be assigned during the semester.**

**I consider the following behaviors to be cheating:**

\*using false excuse to delay taking test/quiz

\*learning what is on a test from someone who has already taken it

\*copying from another student on a test/quiz with or without their knowledge

\*helping someone else cheat on a test/quiz

\*using unauthorized notes on a test/quiz

\*using unauthorized electronic device to obtain information during test/quiz

\*working with others on an assignment when asked for individual work

\*paraphrasing/copying from written or internet source without footnoting it

\*fabricating/falsifying a bibliography

\*turning in work copied from/done by another

\*copying material almost word for word from a written source without citation

\*obtaining paper from term paper mill

\*fabricating or falsifying research data

List adapted from McCabe, Donald. “Cheating among college and university students: a North American Perspective,” International Journal for Educational Integrity, 1.1 (2005).

**For any questions involving these or any other Academic Honor Code issues, please consult me or** [**www.honor.gatech.edu**](http://www.honor.gatech.edu)

**Instructor Expectations**

1. I expect you to attend every class session. The components are highly interrelated; missing a class will detract from the learning potential of subsequent sessions.
2. I expect you to be in the classroom and prepared to begin work at the scheduled starting time for each session.
3. I expect you to actively participate in the discussions.
4. I expect you to submit papers using proper English grammar, syntax, and spelling. You are encouraged to use spell check and grammar check prior to submitting your written work. Grammar, syntax, and spelling will account for 10% of the grade for written work.
5. I expect (and encourage) you to provide honest and timely feedback regarding the content and process of this course throughout the semester.
6. I expect you to share in the responsibility for making this course an enjoyable and beneficial learning experience.
7. **Wikipedia *cannot* be used as a cited reference** as noted by a co-founder of Wikipedia! You may use Wikipedia to identify appropriate source material. Remember Wikipedia is *not* peer reviewed!

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| Week | Topic |
| 1 | Introduction, Medical Ethics   * Approach to a variety of ethical issues using Bellmont criteria of autonomy, non-maleficence, beneficence, and justice |
| 2&3 | Internal Medicine   * Undifferentiated or multi-system disease processes * Combine the science of the laboratory with the care of patients * End of life issues |
| 4 | Health Care Policy   * Current U.S. health care policy and financing * Alternatives from other countries * Ethics of rationing and conservation of resources |
| 5 | Neurology   * Diagnosis and treatment of categories of disease involving the [central](http://en.wikipedia.org/wiki/Central_nervous_system), [peripheral](http://en.wikipedia.org/wiki/Peripheral_nervous_system), and [autonomic nervous systems](http://en.wikipedia.org/wiki/Autonomic_nervous_system) * Sensory processing, vision, hearing, perception * Attention, cognition, memory, language |
| 6&7 | Obstetrics and Gynecology   * Care of women and their children during [pregnancy](http://en.wikipedia.org/wiki/Pregnancy), [childbirth](http://en.wikipedia.org/wiki/Childbirth) and the [postnatal](http://en.wikipedia.org/wiki/Postnatal) period * Health and disease of health of the [female](http://en.wikipedia.org/wiki/Female) [reproductive system](http://en.wikipedia.org/wiki/Sex_organ) including hormonal control * Legal, moral, and religious options that a woman has regarding her pregnancy. |
| 8&9 | Emergency medicine   * Acute illnesses or injuries which require immediate medical attention * Diagnoses of emergent conditions and stabilization of patients for definitive care * Safety and prevention |
| 10 | Sports Medicine   * [Physical fitness](http://en.wikipedia.org/wiki/Physical_fitness), treatment and prevention of [injuries](http://en.wikipedia.org/wiki/Injuries) related to [sports](http://en.wikipedia.org/wiki/Sports) and [exercise](http://en.wikipedia.org/wiki/Exercise) * Health promotion and healthy lifestyles |
| 11 | Endocrinology   * Diseases of the [endocrine system](http://en.wikipedia.org/wiki/Endocrine_system), the integration of developmental events such as proliferation, growth, and differentiation and the coordination of [metabolism](http://en.wikipedia.org/wiki/Metabolism), [respiration](http://en.wikipedia.org/wiki/Respiration_%28physiology%29), [excretion](http://en.wikipedia.org/wiki/Excretion), [movement](http://en.wikipedia.org/wiki/Motor_coordination), [reproduction](http://en.wikipedia.org/wiki/Reproduction), and [sensory perception](http://en.wikipedia.org/wiki/Sensory_perception). * Hormonal contribution and reaction to emotion and stress |
| 12&13 | Psychiatry   * Biological bases of behavior, personality * Psychological disorders, motivation, attitude and behavior change * Eating Disorders/Obesity |
| 14&15 | Infectious Diseases   * Epidemiology * Infectious agents * Antimicrobial drugs, [antibiotic resistance](http://en.wikipedia.org/wiki/Antibiotic_resistance), vaccination |