WALTERS STATE COMMUNITY COLLEGE

COURSE SYLLABUS

Course: Introductory Microbiology - BIOL 2230
Semester: Spring 2012
Instructors:
- Dr. Pamela Fouche', Office NSCI 122, Phone 423-585-6874
  E-Mail: Pamela.Fouche@ws.edu
- Mr. Greg Johansen, Office NSCI 128, Phone 423-585-6890
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- Dr. Donald Lindsey, Office NSCI 127, Phone 423-585-6862
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- Jaime Parman-Ryans, Office WSGC 257, Phone 423-798-7974
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Course Supervisor
- Dr. Jeff T. Horner, Dean of Natural Science, Office 126 NSCI,
  Contact: Phone: 423-585-6954, E-Mail: Jeff.Horner@ws.edu

Office Hours:
- Instructors’ office hours are posted on their office doors
FAX: 423-318-2762
Secretary: 423-585-6865 (Sherry Woody)

Required Textbook:
Microbiology: An Introduction: 10th edition with value pack components by Tortora; Benjamin Cummings, ISBN 0558067867

Catalog Description:
A survey of microorganisms with emphasis on morphology, growth, and pathogenesis of bacteria, fungi, and viruses. Human defense mechanisms against disease are emphasized.

3 hours lecture..................................................................................................3 credit hours

Learning Outcomes:
At completion of the course the student will be able to:
1. Identify the activities and persons contributing to the development of microbiology.
2. Identify the physical and chemical requirements for microbial growth and control.
3. Describe viral replication, classification and laboratory culture methods.
4. Compare and contrast methods and benefits of biotechnology, genetic modification and recombinant DNA.
5. Identify classification criteria and cell structure associated with prokaryotes, eukaryotes and non-living infectious agents.
6. Define metabolism and compare anabolic, catabolic, fermentative and enzymatic activities in microorganism.
7. Identify the causative agent, symptoms, transmission and treatment of various infectious diseases involving human body systems.
**Instructional and Evaluation Methods:**
Lecture with accompanying laboratory exercises, most material presented with overhead projections, slides, films, and computer generated presentations. Lecture examinations may include multiple choice and discussion questions.

**Grading Scale:**
5 Lecture Exams @ 100 points each = 500 pts.
Comprehensive Final 150 points = 150 pts
eLearn Assignments (5@10 points) = 50 pts

Total points possible: 700

A = 630-700 points
B = 560-629 points
C = 490-559 points
D = 420-489 points
F = < 419 points

**Tentative Course Outline:**
1. The Microbial World and You
2. Observing Microorganisms
3. Functional Anatomy
4. Microbial Metabolism
5. Microbial Growth
6. Control of Microbial Growth
7. Microbial Genetics
8. Biotechnology and Recombinant DNA
9. Classification of Microorganisms
10. The Prokaryotes
11. The Eukaryotes: Fungi
12. Viruses, Viroids and Prions
13. Principles of Disease
14. Microbial Mechanisms of Pathogenicity
15. Innate Immunity: Nonspecific
16. Adaptive Immunity: Specific
17. Practical Application Immunology
18. Disorders Associated with Immune System
19. Antimicrobial Drugs
20. Diseases of Skin and Eyes
21. Diseases of Nervous System
22. Disease of Cardiovascular and Lymphatic Systems
23. Diseases of Respiratory System
24. Diseases of Digestive System
25. Diseases of Urinary and Reproductive

**Exam Policy:**
1. **ALL** exams are to be taken at times scheduled by the instructor.
2. **ALL** exams scheduled in the course by the instructor must be taken in order for the student to receive a passing grade.

3. Make-up exams will be given for excused absences only (excused absences include illness, death in family, and military or jury duty).

4. Make-up exams must be taken before the next scheduled exam.

5. All eLearn assignments must be submitted as scheduled.

**Course Ground Rules:**
Students should attend the first day of class or contact the instructor prior to the first class. Failure to do this may result in being dropped from the class.

Plagiarism, cheating, and other forms of academic dishonesty are prohibited.

Students with disabilities must register with Student Support Services in the Student Services Building, Room U134 (phone 423-585-6892) if they need any special facilities, services, or consideration.

Students in need of tutoring assistance are encouraged to contact the Office of Student Tutoring located in the Student Services Building, Room L107 at phone number 423-585-6920 or 423-798-7982 for the Greeneville Campus, 865-908-5494 for the Sevierville Campus, 423-851-4762 for the Claiborne Campus.

Students receiving any type of financial aid or scholarship should contact the Financial Aid Office before making any changes to their schedule. Schedule changes without prior approval may result in loss of award for the current term and future terms.

Students who have not paid fees on time and/or are not correctly registered for this class and whose names do not appear on official class rolls generated by the Admissions and Records Office will not be allowed to remain in class or receive credit for this course.

Electronic devices must not disrupt the instructional process of college-sponsored academic activity. Use of electronic devices is prohibited unless use of the device is relevant to the activity and use is sanctioned by the faculty member in charge. Electronic devices that are not relevant to the activity or sanctioned by the faculty member in charge should be set so that they will not produce an audible sound during classroom instruction or other college-sponsored academic activity. (See the Walters State Catalog/Handbook)

For information related to the cancellation of classes due to inclement weather, please check the college’s Web site at [www.ws.edu](http://www.ws.edu) or call the college’s student information line, 1-800-225-4770, option 1; InfoConnect, (423) 581-1233, option 1045; the Sevier County Campus, (865) 774-5800, option 7; or the Greeneville/Greene County Center for Higher Education, (423) 798-7940, option 4. Also, please monitor local TV and radio stations for weather-related announcements. For additional information on this policy see the college catalog.

In the event of a pandemic or other college declared critical event that impacts the college’s ability to proceed with academic course activities as planned, the college reserves the right to alter this course plan. In the event of a pandemic or other event, please refer to the college’s home web page, [www.ws.edu](http://www.ws.edu) or call InfoConnect, (423) 581-1233 for further information.
Regular class attendance is a student’s obligation. (See the Walters State Catalog/Student Handbook) If for some reason a student misses class, it is his or her responsibility to see the instructor regarding missed assignments and/or activities and to be prepared for the next class. Excessive absences may substantially lower the semester grade. The college requires the instructor to keep accurate records and to report when students are not attending class.

Students are required to supply a #2 pencil for each lecture exam. The wearing of hats and caps in class is not allowed! Students will be asked to remove their hats and caps.

**STAY AWAKE IN CLASS.** Your mere presence in class is not sufficient—you must be able to actively process the information presented! Sleeping in class is disruptive in two ways: the student who is snoozing is not interested and not participating in the classroom discussion; secondly, sleeping in class is considered to be disrespectful to the teacher and other students. The penalty for sleeping in class may range from the student being requested to leave the class with a following conference with the instructor, to notification of the Vice-President of Academic Affairs (in the cases of habitual sleepers). If you have a medical condition that prevents you from staying awake in class, please discuss this with the instructor.

**WSCC Catalog Notification Statement:**
All students attending Walters State Community College, regardless of the time and location of the class, must abide by the rules and regulations outlined in the current Walters State Catalog/Student Handbook and the current “Walters State Timetable of Classes.” A copy of the Catalog/Handbook and the “Timetable of Classes” may be obtained from the Admissions Office on the Main campus or at any of our off-campus sites. You may also access the Catalog/Handbook on-line at the following web address: [http://www.ws.edu/catalog](http://www.ws.edu/catalog).

**Alternative Teaching Plan**
In the event of a pandemic or other college declared critical event, the lead faculty member for this course will use eLearn to communicate with the students. If the lead faculty member is affected by this event, another member from the teaching team will assume instruction for the course. The course will continue utilizing an online format of instruction and testing.

General Education Core Competency (CC) courses – ENGL 1010, SPCH 2010, MATH 1530 or 1630 or 1710, and CPSC 1100 or MGMT 1100 – must be completed by the time the student completes 30 hours of college credit towards a degree at Walters State Community College. Completion of the courses with a passing grade is the primary form of documentation of competency. Alternate methods of documentation are described in the College Catalog (“General Education Competency Requirements”).

**ATTENTION:** The Natural Science faculty members are concerned with proper academic advising of students in ALL Pre-Professional programs. It is our explicit desire to help you with any advising problems you may encounter.