

SYLLABUS
BIO 346 The Web Based Course
4 Credit Hours
—2008—
FALL & SPRING SEMESTERS

Class Meeting Room: N/A

Class Time: N/A

Instructor Name: Dr. J. C. Turner, Professor of Biology

Office Location: Lee Drain Building, Room 134

Office Hours: Wednesday 0800-1200 Hrs and by appointment

Instructor Contact Information:

Phone: (936) 294-1537

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NOTE: All email associated with this course must place **BIO 346 (01) SPRING (or FALL, as appropriate)** in the Subject line, and the text signed with your full name and student identification number. Failure to do so will result in the email being filtered as SPAM and never seen.

Course Description

A basic study of physiological systems in health and the underlying system dysfunction in the disease processes of the human body across the life span. Relationships between etiologic agents and their consequence to human form and function will be stressed. Critical thinking processes integrating symptoms, treatment and prognosis will be applied to physiological perspectives. Prerequisites: A grade of C or better in BIO 245, 246 & CHM 135/115; or permission of the Instructor. Credit 4.

Course Objectives

A chapter-by-chapter outline and Study Objectives can be downloaded from the website. The outlines and objectives are in a three part document found under the Course Documents section on the website.

Required Textbooks and/or References

Pathophysiology, 5th Ed. K.L. McCance & S.E. Huether. 2006, Mosby, Inc. (ISBN 0-323-03507-8)

Recommended Textbook

Study Guide and Workbook to Pathophysiology, 5th Ed. K.L. McCance & S.E. Huether. 2006, Mosby, Inc. (ISBN 0-323-03623-6)

Required Supplies

University computer account, Internet connection, Internet Explorer browser, and basic computer skills.

Attendance Policy

N/A

Assignments

All of the chapter ancillaries learning aids are assigned as part of the online learning process. These ancillary exercises include the PowerPoint chapter reviews (essentially my annotated lecture notes) and a chapter-by-chapter outlines and study objectives. The study aids for each chapter embraced by an exam are assigned to you prior to your taking the exam, including the

appropriate quizzes for the chapters included on each of the exams. This will facilitate your success on each exam.

Exams

There is a quiz taken for credit over each of the chapters in the text covered by this course. Check your ***Exam Schedule*** for the listing of course chapters in your text. Be sure to complete the appropriate quizzes before you take each exam. Each quiz is formatted in the same manner as the exams. When you take a quiz or exam, each question will be presented singly and must be answered and submitted before the next question is presented. You will be unable to return to a previous question so be sure your answer is correct. You will be provided 30 minutes to answer 20-25 questions on each quiz. Each exam or quiz may only be accessed once. Each of the five exams has 100 multiple-choice, true-false questions, and/or matching questions. Exam questions are based on the series of chapters indicated in the ***Exam Schedule*** listed at the end of this document. Each exam is timed; you are given 110 minutes to complete the 100 questions. You are provided a warning 15–minutes prior to the end of each exam period. You will be expelled from the exam program once your exam time has elapsed. Unanswered questions will be evaluated as incorrect and become part of your score. After completing each exam, it will be necessary to submit the exam for grading by clicking the “Submit” button. Your score will appear on a screen indicating the number of questions you scored correct as well as the current class average for that specific exam. It should go without saying; you **are not** to use ancillary materials to assist you in answering exam questions. Academic dishonesty and will meet severe consequences (see below).

Exam #1 —The first exam must be completed by the date stipulated in the course *Exam Schedule*. The exact date will vary between semesters, but will generally fall within the first three to four weeks of the semester. Failure to complete the first exam by this date will result in **a loss of ten (10) percent from your score for each week or partial week you fail to take the first exam.** For example, if you take the first exam one day to one week late, the highest score you can make is 90%; for two days or two–weeks late, the highest score you can make is 80%, etc. The remaining course exams do not have a specific time for completion, but **ALL** course work must be completed no later than midnight the last day of classes for the semester (see the *Exam Schedule*). The specific semester dates may be found in the University’s semester calendar on line.

Grading Plan

Grades will be determined as the average of the scores on each of the one-hour exams. The cumulative average of the individual chapter quizzes will provide one additional (i.e. Exam VI) exam grade. Should you fail to take more than five quizzes, the cumulative average for your quizzes will be a score of “0.” There is no comprehensive final exam. The final course grade is based on the total points accumulated by each student in the course and assessed as a percent of the total points available to students in the course. Grades will be determined as follows: 90-100% = A; 80-89% = B; 70-79% = C; 60-69% = D; 59% and below = F. Any curve applied to exams scores, final course scores or allocation of extra credit is at the discretion of the Instructor. Grades are posted to the University where they may be accessed in each student’s on line grade file. I cannot discuss exam or quiz scores or final course grades with you (or anyone else) by phone or email under the existing federal and state laws protecting your privacy. Please do not ask.

Academic Dishonesty

All students are to engage their academic pursuits in a manner that is above reproach. Students are expected to maintain complete honesty and integrity in academic experiences both in and out

of the classroom. Any student found guilty of dishonesty in any phase of academic work will be subject to disciplinary action. The University and its official representatives may initiate disciplinary proceedings against a student accused of academic dishonesty including, but not limited to, cheating on examinations or other academic, plagiarism, collusion, and the abuse of resource materials. Penalties can include course failure and indefinite suspension from the University.

Course Specifics

The Evolve website is divided into a series of compartments, navigated by drop down menus on the left side of the course home page (Fig. 1). There are really only two of these menus for you to use. The other menus (if they are visible on your screen) are used by other programs in different courses.



Figure 1. Once you have logged onto the Evolve website, and resolved the registration information one of the initial screens will look similar to the image above. How to get to this page is described in the original information you downloaded from the University's blackboard program under my courses, specifically BIO 346 Pathophysiology. Note the titles on the left side of the screen image. These titles are drop down menus that expose the information you will require for the course. You primarily use the *Course Documents* and *Course Tools*. The remaining titles, if they are visible on your screen, are for programs and functions we do not use. Of particular importance is the *Course Announcement* section. *Course Announcements* is how general information is disseminated to the class as a group. Individual emails will respond to individual inquiries. Be sure to check your *Course Announcements* and your email daily. If you have not checked you announcements in several days, be sure when you do check that you have not missed an announcement. The easiest way is to highlight the selection "All" where "View" is selected. The most recent announcement will be the first in your list of announcements.

The two menus you will use are the *Course Documents* and the *Course Tools*. The *Course Tools* is where you can view your course grade. The *Course Documents* can be opened to reveal a series of folder, each of which can be accessed to work with their contents.

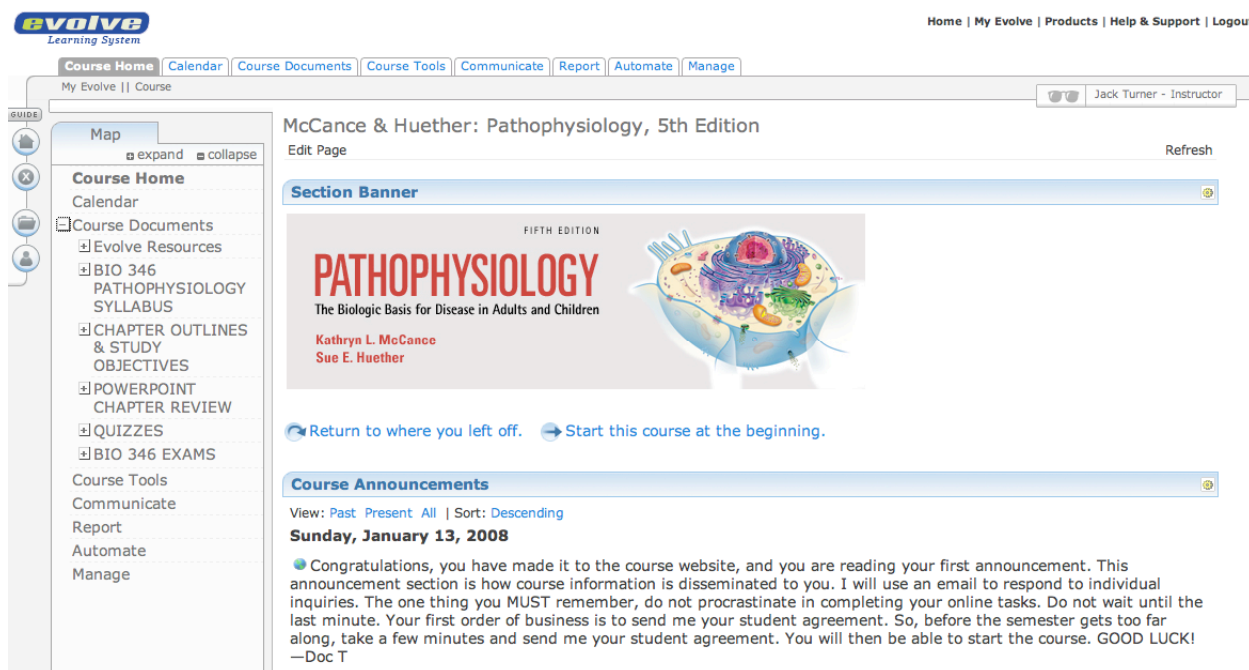


Figure 2. Double clicking the box containing the “+” immediately preceding *Course Document* will reveal the drop down menu with the five folders containing the course’s ancillary documents. Double clicking the “+” for each of these folders takes you to the next drop down menu.

BIO 346 Pathophysiology Syllabus— This folder contains a downloadable copy of the course syllabus inclusive of a topical outline, exam schedule, significant course dates, and the student agreement.

Chapter Outlines and Study Objectives— This folder contains a detailed outline and chapter objectives for each of the textbook’s 47 chapters. This will be a valuable study guide.

PowerPoint Chapter Review— This folder contains the equivalent of annotated and illustrated lecture notes for each of the 47 chapters. This should provided the nucleus for your study, in addition to reading each of the chapters, outlines, and objectives.

Quizzes— This folder contains a quiz for each of the 47 chapters. You should prepare yourself for each of the exams by using the chapter quizzes to determine your mastery of each of the chapters. There are 20–25 questions in each quiz. You have 30 minutes to complete each quiz. The average of the 47 quizzes is equivalent to one exam grade.

BIO 346 Exams— This folder contains the five major exams testing your comprehension of the 47 chapters. Additionally, there is a trial exam, which you make take on multiple occasions; this trial exam is not for credit. The quizzes, trial exam and major exams are all structured in the same manner and were assembled from a common question bank.

Computer System Errors

Regardless the cause, if you experience a **System Error** you should contact me immediately so that we can resolve the situation. System errors occurring during an exam are generally of two types:

- (1) Systems errors that occur as a result of an SHSU server or related problem will allow you to retake the exam without prejudice or penalty if accompanied by a signed written note (not a phone call or email) from the SHSU Computer Lab technician on duty at the time of the SHSU system problem.
- (2) In all other system error situations one of three (3) resolutions may occur solely at my discretion:
 - A. You may be allowed an exam reset for the course on an incomplete exam if less than half of the exam has been completed or less than half of the exam time has elapsed. This is generally limited to one reset per semester per student.
 - B. If you have completed 50% or more of the exam or 50% or more of the exam time has elapsed, your exam grade may be extrapolated from that portion of the exam completed. The decision to extrapolate a assignment grade is solely at the discretion of the Instructor.
 - C. System errors occurring during a quiz will result in the quiz being reset. This is generally limited to three resets per semester per student.

Visitors in the Classroom

N/A

Americans with Disabilities Act

It is the policy of Sam Houston State University that no otherwise qualified disabled individual shall, solely by reason of his/her handicap, be excluded from the participation in, be denied the benefits of, or be subjected to discrimination under any academic or Student Life program or activity. "Students with a disability which affects their academic performance are expected to arrange for a conference with the Instructor in order that appropriate strategies can be considered to ensure that participation and achievement opportunities are not impaired" (Academic Policy Statement 811006 ¶4.05 Revised 18 July 1994). SHSU adheres to all applicable federal, state, and local laws, regulations, and guidelines with respect to providing reasonable accommodations for students with disabilities. If you have a disability that may adversely affect your work in this class, then I encourage you to register with the SHSU Counseling Center and to talk with me about how I can best help you. All disclosures of disabilities will be kept strictly confidential. **NOTE:** Disabled students may request assistance with academically related problems stemming from individual disabilities by contacting the Director of the Counseling Center in the Lee Drain Annex or by calling (936) 294-1720. No accommodation can be made until you register with the

Counseling Center. The Instructor may choose to discuss particular accommodations with the Counseling Center should they be contrary to course goals and requirements.

Religious Holidays

Students that are absent from class for the observance of a religious holy day are allowed to take an examination or complete an assignment scheduled for that day within reasonable time after the absence. The period of time during which assignments and exams will be excused includes travel time associated with the observance of the religious holy day. A student who wishes to be excused for a religious holy day must inform the Instructor of each scheduled class that he/she will be absent from class for religious reasons with a written statement concerning the holy day(s) and the travel involved. In such cases, the student will be required to take the test or submit the assignment early—unless there are good reasons for not being able to do so and the Instructor has agreed to those reasons.

Miscellaneous Considerations

My only way of communicating with you will be through your University email account. Be sure to keep it current and your account files clean. Too many unread or undeleted transmissions will block your account from receiving new transmissions. I have no failsafe way of determining whether you have received a particular transmission. I am unable to acknowledge all emails I receive, please do not ask. Your best bet is to use a program that sends you a receipt when the email has been read. If you have asked me a question, I will respond to you as quickly as possible. Should I not respond in a timely manner, please give my office a call. Sometimes the University computer system can get a little troublesome. It is recommended that you use the same computer to take your exams. It should have a broadband connection like DSL and not dependent upon a dial-up modem for connecting to an Internet browser. Evolve works well with Microsoft's web browser, Internet Explorer and not as well with Firefox. If you have problems with compatibility, **DO NOT CALL ME**, rather you need to call the Evolve help line 1-800-401-9962 between the hours of 0800 am and 5:00 pm.

TOPICAL COURSE OUTLINE

Foundation Concepts of Pathophysiology	Atherosclerosis
Immunity	Arteriosclerosis: Medial Calcific Sclerosis
Lymphoid Tissue	System Hypertension & Arteriolosclerosis
Immune Responses	Arterial Inflammation
Therapeutic Applications of Immunity	Venous Disorders: Thrombophlebitis & Varicose Veins
Immune-Mediated Tissue Injury	Cardiac Function/Dysfunction
Immune Deficiency Syndromes	Cardiac Function
Autoimmune Diseases	Heart Disease
Inflammation & Cell Injury	“Congestive” Heart Failure
Tissue Vulnerability to Injury	Cardiomyopathies
Determination and Monitoring of Cell Injury	Congenital Heart Defects
Normal Vascularized Connective Tissue	Mortality Factors
Acute Inflammation	Circulatory Function/Dysfunction
Thermoregulation	Circulatory Shock
Normal Thermal Homeostasis	Compensation Therapy
Fever	Progressive Circulatory Shock
Tissue Healing & Repair	Respiratory Function/Dysfunction
Components of the Healing Process	Anatomy & Physiology of Asymptomatic System
Wound Healing: Epidermis/Dermis	Respiratory Disease
Wound Healing: Major Tissues	Hypoperfusion & Hyperventilation
Complications in the Healing Process	Lung Infection
Requirements, Control and Regulation of Wound Healing	Respiratory Failure
Neoplasia	Pulmonary Tumors
Tissue Growth Disorders	Gastrointestinal Function/Dysfunction
Tumor Behavior: Benign vs. Malignant	Passage, Absorption & Expulsion from the GI tract
Tumor Effects	GI Obstruction & Ulceration
Oncogenesis	GI Oncogenesis
Tumor Immunology	Hepatobiliary & Pancreatic Function/Dysfunction
Antitumor Therapy	Vitamin & Nutrient Relations
Tumor Staging & Grading	Bile Secretion & Metabolic Function
Systemic Pathophysiology	Detoxification
Hemopoiesis Function/Dysfunction	Liver Failure
Erythropoiesis, Leukopoiesis & Thrombopoiesis	Hepatitis
Coagulation	Cirrhosis
Bleeding, Erythrocyte & Leukocyte Disorders	Diagnostics for Hepato-Dysfunction
Hemodynamic Function/Dysfunction	Hepato/Pancreato Oncogenesis
Sequelae of Thrombosis	Pancreatitis
Infarction	Renal Function/Dysfunction
Embolism	
Vascular Function/Dysfunction	

EXAM SCHEDULE

CHAPTER — SUBJECT/ACTIVITY

INTRODUCTION TO PATHOLOGY:

UNIT I —CHAPTERS 1-3 (THE CELL,)

UNIT 2 —CHAPTERS 4-5 (GENES AND GENE-ENVIRONMENT INTERACTION)

UNIT 3 —CHAPTERS 6-10 (IMMUNITY)

EXAM I —**EXAM I MUST BE COMPLETED BY MIDNIGHT, SUNDAY 10 FEBRUARY 2008**

UNIT 4 —CHAPTERS 11-13 (CANCER)

UNIT 5 —CHAPTERS 14-19 (NEUROLOGIC SYSTEM)

UNIT 6 —CHAPTERS 20-21 (ENDOCRINE SYSTEM)

EXAM II

UNIT 7 —CHAPTERS 22-24 (REPRODUCTIVE SYSTEM)

UNIT 8 —CHAPTERS 25-28 (HEMATOLOGIC SYSTEM)

UNIT 9 —CHAPTERS 29-31 (CARDIOVASCULAR AND LYMPHATIC SYSTEM)

EXAM III

UNIT 10 —CHAPTERS 32-34 (PULMONARY SYSTEM)

UNIT 11 —CHAPTERS 35-37 (RENAL AND UROLOGIC SYSTEM)

UNIT 12 —CHAPTERS 38-40 (DIGESTIVE SYSTEM)

EXAM IV

UNIT 13 —CHAPTERS 41-43 (MUSCULOSKELETAL SYSTEM)

UNIT 14 —CHAPTERS 44-45 (INTEGUMENTARY SYSTEM)

UNIT 15 —CHAPTERS 46-47 (INTERGRADING AND INTERACTING SYSTEMS)

EXAM V —**EXAM V MUST BE COMPLETED BY MIDNIGHT, FRIDAY 09 MAY 2008**

**ALL Assigned Course material must be completed
by Midnight, Friday 09 MAY 2008.**

STUDENT AGREEMENT

You have enrolled in the online Biology 346, Pathophysiology for four (4) credit hours. In order to complete this course you will require:

- (1) A current and active SHSU email account. Without this, we (you and I) will not be able to communicate. Check with the University Computer Help Desk for assistance if you need it by calling: (936) 294-1950. It is your responsibility to provide me a usable email address.
- (2) You will need the Evolve website address.
- (3) You will need the course identification number.

You have already been instructed to read the course syllabus, which also imparts the course administrative policies. Once you have read and understand the contents of the syllabus, you will need to reply to me by doing the following:

1. **COPY ONLY** the text indicated below, and
2. **PASTE** only the copied text into an email, **TYPE** your name (last name first) and Social Security or SAM identification number in the appropriate blank as indicated.
3. In the subject line of this email **YOU MUST** put the following:

BIO 346 SPRING Student Agreement

Failure to do so will place your correspondence into the SPAM file and it will not be received.

4. **SEND** via **E-MAIL** your student agreement to me at Jturner@shsu.edu
5. In so doing, you will be certifying to me that you have read, understand and agree to abide by the policies governing this online course.
6. I will maintain your email contract for my records.
7. Once again, **BE SURE** your email is properly addressed with correct subject line.

When I have received your email contract, I will place a “5” in the grade book under “Student Agreement.” You will be able to see when I have acknowledged receipt of your contract by accessing your grades on the website. You may begin the course, take the quizzes, and the exams for credit after your contract has been acknowledged. If you attempt to complete a quiz or exam(s) prior to your signed contract being acknowledged, your work will be **SCORED “0” WITHOUT THE POSSIBILITY OF A RETAKE.**

COPY ALL THE MATERIAL BELOW THE LINE & PASTE IT INTO YOUR EMAIL

I have read, understand and agree to abide by the policies detailed in the Course Syllabus found on the course website. Further, I fully understand those sections in the Course Syllabus related to *important semester dates and the exam/quiz grading policy*.

- A) I am aware of the course Assignment Schedule
- B) I know the Exams and Quizzes are **TIMED** events
- C) I accept the Instructor's resolutions for Computer System Errors
- D) I understand that my exam/quiz score may be extrapolated from an incomplete exam/score if 50% or more of the exam/quiz has been completed. Exams/quizzes with less than 50% will be reset in accord with course policies.
- E) I will check my grades for errors after completing and submitting my quiz/exam
- G) All correspondence with the course Instructor will have **BIO 346 SPRING** in the subject line. The email message will be **SIGNED** with my complete name and **STUDENT IDENTIFICATION NUMBER**.

Type in your name and social security number or identification number below and then follow the above instructions.

TYPE YOUR NAME HERE (LAST NAME, FIRST) _____

TYPE YOUR S.S. or ID # HERE _____