A. COURSE INFORMATION

Course number/section: 3401.001
Class meeting time: TR 4:20 – 6:00 pm
Class location: EN 106
Course Website: https://bb9.tamucc.edu/

B. INSTRUCTOR INFORMATION

Instructor: Riccardo Mozzachiodi, Ph.D.
Office location: EN 321. When not in my office, I will be in the lab, located in CS 119B, in the loading dock of the CS building
Office hours: MT: 12:00 – 2:00 pm; W: 12:00 – 1:00 pm; other times by appointment
Telephone: 361-825-3634
e-mail: riccardo.mozzachiodi@tamucc.edu
Appointments: to request an appointment outside of office hours, send email to the above email address at least 48 hours in advance. In the email, please specify the reason of the appointment.

C. COURSE DESCRIPTION

Catalog Course Description
This course is a study of the biological basis of human disease. It includes an investigation of inflammation, immunity, and neoplasia, as well as the more common presenting dysfunctions of body systems.

Extended Course Description
The overall objective of this course is to understand the disease processes of the human body. We will discuss symptoms, treatments and prognosis. Emphasis will be given to the physiological factors that underlie disease states. This is a rigorous lecture-based course containing a large amount of information that is covered rapidly. It will require a great deal of time and effort on the part of the student. This elective course is beneficial for students interested in attending professional schools and graduate programs in biomedical sciences.

D. PREREQUISITES AND COREQUISITES

Prerequisites
CHEM 1411 and BIOL 1407 or BIOL 2401

Corequisites
None

E. REQUIRED TEXTBOOK(S), READINGS AND SUPPLIES

Optional Textbook(s) or Other References
The electronic versions of the lecture handouts (PDF format) as well as the syllabus and study guides will be made available on Blackboard. Handouts will be posted on Blackboard one week before class. When necessary, additional material will be posted on Blackboard.

F. STUDENT LEARNING OUTCOMES AND ASSESSMENT
Assessment is a process used by instructors to help improve learning. Assessment is essential for effective learning because it provides feedback to both students and instructors. A critical step in this process is making clear the course’s student learning outcomes that describe what students are expected to learn to be successful in the course. The student learning outcomes for this course are listed below. By collecting data and sharing it with students on how well they are accomplishing these learning outcomes students can more efficiently and effectively focus their learning efforts. This information can also help instructors identify challenging areas for students and adjust their teaching approach to facilitate learning.

By the end of this course, students should be able to:
1) Analyze the mechanisms of cell injury
2) Describe the role of the inflammatory response in disease states
3) Summarize the role of the immune system in maintaining homeostasis and its pathology
4) Evaluate the processes and risk factors involved in carcinogenesis
5) Assess and understand the physiological responses to specific disease states
6) Discriminate among pathological states in different body systems and their interactions

G. MAJOR COURSE REQUIREMENTS AND GRADING
The student learning outcomes outlined above will be assessed throughout the semester by using two types of in-class assignments: 1) Exams and 2) In-Class Learning Exercises. The comprehensive nature of exams and learning exercises (see details below) will allow the instructor and the student to assess knowledge on both current topics and previous material at several points during the semester.

<table>
<thead>
<tr>
<th>ACTIVITY</th>
<th>% of FINAL GRADE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exams</td>
<td>83</td>
</tr>
<tr>
<td>In-Class Learning Exercises</td>
<td>17</td>
</tr>
</tbody>
</table>

1) Exams: There will be 5 exams (4 during the semester + final exam). Each exam, including the final, is worth 100 points. Each exam will focus on the material covered during lectures and is listed in bold in the tentative schedule (see below). All the exams are comprehensive. Consequently, exam 2, for example, will cover material from chapters 4, 6 and 7, but it will also contain questions about previous sections (chapters 1, 2 and 3). In addition to the handouts, students are responsible for all material, such as videos, guest lectures, websites etc. covered during class. Exams may contain questions in the following formats: multiple choice, matching, true/false, making/labeling drawings, short answer questions, and essay questions. The lowest grade of the 5 exams will be automatically dropped. If the grade obtained at the end of the regular semester (i.e., after 4 exams and 8 in-class learning
exercises) cannot be improved with the final exam, the student does not have to take the final exam. Therefore, students will take the final exam to replace the lowest exam grade obtained during the semester and improve the cumulative grade. Exams are completed on a scantron answer sheet, which will be provided. Both exam and scantron answer sheet must be completed and submitted at the end of the test. Grades are calculated based on the answers provided on the scantron sheet. Consequently, if an answer was bubbled wrong on the scantron, but was marked correctly on the exam text, it will remain counted wrong. Also, answers that are not bubbled on the scantron will be counted wrong, even when marked correctly on the exam text. Therefore, students are strongly encouraged to carefully check their answers on the scantron before turning it in. Additionally, unless otherwise requested, students are not allowed to write on the write-in area of the scantron. An exam lasts as a regular class (approximately 90 minutes). There will be no lecture on exam days. During exams, students will be required to remove their caps, hats, etc. Different test forms may be prepared for an individual exam. Follow instructions. If a student leaves the examination room for any reason he/she must hand the test and will not be allowed to resume the examination. Students are encouraged to attend to personal matters (e.g., rest room visits) before the beginning of the exam. Be on time! Anyone arriving after someone has already completed and turned in an exam and left the room will not be allowed to take that examination.

2) In-Class Learning Exercises: At random dates during the semester, students will engage in in-class learning exercises. These exercises will require the students to answer questions about topics covered during class. These in-class learning exercises will not be announced in advance. During the in-class learning exercises, students will be allowed to use textbook and handouts with notes, but not electronic devices including portable computers and phones. There will be 8 in-class learning exercises, each worth 10 points. Each class-learning exercises lasts 10 minutes and can be presented at any time during class (i.e., at the beginning, at the end or during class). In-class learning exercises will not be scheduled on a day when an exam is already scheduled. All the 8 in-class learning exercises will count for the final grade. During in-class-learning exercises, students will be required to remove their caps, hats, etc. Once the student has turned in an in-class learning exercise, he/she is not allowed to turn on the cell phone or the computer or leave the room until all the students have turned in their assignments and the instructor begins/resumes the lecture.

Partial scores for exams and in-class learning exercises will be posted on Blackboard. It is the students’ responsibility to regularly check their scores on Blackboard.

Final Grade
The final letter grade is based on the sum of 4 exams (400 points) and 8 in-class learning exercises (80 points), for a total of 480 points. No statistical manipulations (e.g., curving) will be made at any time during the semester or for any exam, including the final.

The final grading scale is as follows:
480 - 424 = A
423 - 376 = B
375 - 328 = C
327 - 280 = D
279 or below = F
Final grades will be determined by the number of points earned. For example, if you earn 424 (or more) points, the final letter grade will be an A. If you earn 423 points, the final letter grade will be a B, etc. No exceptions.

Please note: For privacy reasons I cannot reveal grades over the telephone or by e-mail. If you wish to know your grade before the official grade reports are posted, or wish to discuss your grade, please see me in person.

H. COURSE CONTENT/SCHEDULE

The lectures (titles and chapter numbers in parenthesis) listed in the schedule below correspond to the chapters of this book. Also, some of the material illustrated in the lectures and in the handouts is derived from the chapters of this book.

August
27 Syllabus description and course introduction. Cell Pathology (Chapter 1)

September
1 Cell Pathology (Chapter 1), continued
3 Inflammation (Chapter 2)
8 Inflammation (Chapter 2), continued
10 Immunopathology (Chapter 3)
15 Immunopathology (Chapter 3), continued
17 Neoplasia (Chapter 4)
22 **EXAM 1: Cell Pathology; Inflammation; Immunopathology**
24 Neoplasia (Chapter 4), continued
29 Fluid and Hemodynamic Disorders (Chapter 6)

October
1 The Cardiovascular System (Chapter 7)
6 The Cardiovascular System (Chapter 7), continued
8 The Respiratory System (Chapter 8)
13 The Respiratory System (Chapter 8), continued
15 The Hematopoietic and Lymphoid Systems (Chapter 9)
20 **EXAM 2: Neoplasia; Fluid and Hemodynamic Disorders; The Cardiovascular System**
22 The Hematopoietic and Lymphoid Systems (Chapter 9), continued
27 The Liver and Biliary System (Chapter 11)
29 The Liver and Biliary System (Chapter 11)
November
3 The Pancreas (Chapter 12)
5 EXAM 3: The Respiratory System; The Hematopoietic and Lymphoid Systems; The Liver and Biliary System
10 The Endocrine System (Chapter 17)
12 The Urinary Tract (part 1; Chapter 13)
17 The Urinary Tract (part 2; Chapter 13), continued
19 EXAM 4: The Pancreas; The Endocrine System; The Urinary Tract
24 The Nervous System (Chapter 21)
26 Thanksgiving, no class

December
1 The Nervous System (Chapter 21), continued
3 FINAL EXAM: 4:30 – 7:00 pm. Final exam will be comprehensive and will also include questions on Chapter 21 (The Nervous System).

Note: Changes in this course schedule may be necessary and will be announced to the class by the Instructor. The exams shown are directly related to the Student Learning Outcomes described in Section F.

I. COURSE POLICIES

Attendance/Tardiness
Students are expected to attend every class. When absent, it is the student's responsibility to obtain missed information from a classmate. Missed information includes not only lecture notes, but also any possible information regarding changes to the agenda. The student is expected to arrive prepared to take notes and should bring textbook and handouts.

Late Work and Make-up Exams
1) In-class learning exercises. Regardless of the circumstances, students will not be allowed to make up the learning exercise(s) that they have missed. This rule applies to every exercise and to every student and no exceptions will be made. In case a student cannot attend class because he/she will be officially representing TAMU-CC at meetings/conferences or sports events, see rule (e) below.

2) Exams. This course does not include make-up exams. If you are not able to attend one of the exams, contact the instructor ASAP (see below). Points missed because of an unexcused absence (including tardiness and leaving early) cannot be recovered. Only unavoidable absences are excused, so you should schedule routine personal events (e.g., vacations, weddings, reunions, non-emergency medical or dental visits, parent-teacher conferences, household or auto repairs) to avoid conflicts with your classes. Oversleeping is never an acceptable excuse. Employment conflicts are not acceptable excuses for absences, tardiness, or leaving class early. Once enrolled in a class, it is the student’s responsibility to arrange his or her work schedule so that no regularly scheduled class, laboratory, or
examination time is missed. Texas waives jury duty for students, so jury duty is not an acceptable excuse. **Students must remember that it is their responsibility to know the course schedule on pages 4 and 5 of this syllabus.** If you miss an exam because you forgot, or because you were not aware that it was scheduled for that day, you **WILL NOT be allowed to make it up!** An excused absence allows the instructor to make alternative arrangements for completing assignments. The documentation required for an absence to be excused **must be:**

a) From an appropriate source (e.g., doctor, dentist, funeral director) who states the nature of the event that caused (or will cause) your absence.

b) In writing, on official stationery, and signed (I do **not** return excuses to you). Telephone calls, FAXes, and e-mails are **not** acceptable.

c) Presented **prior to** the absence for a scheduled event (e.g., university-sponsored activity recognized religious holiday, military service).

d) Presented **no more than one week** after the date of an unexpected absence.

e) In case a student cannot attend class because he/she will be officially representing TAMU-CC (e.g., meetings or sports events), the documentation required for an absence to be excused should be obtained from either the faculty/staff member in charge of the class/organization or from the Division of student Engagement and Success.

**Extra Credit**  
No extra credit will be offered for this course

**Cell Phone Use**  
The use of cell/smart phones is strictly prohibited during the class period. Cell/smart phones must be turned off at the beginning of class and remain so until the class is dismissed.

**Laptop Use**  
- **During lectures,** computers and notebooks can be used to take notes.
- **During exams or learning exercises,** any portable device, including phones, computers, notebooks and tablets must be turned off and removed from the table for the entire duration of the exam/exercise.

**Scanning and photographs of any part of exams or exercises is prohibited!**

**Supplemental Instruction**  
A Supplemental Instruction (SI) component has been established for this course. Your SI leader is **Zackary Alghamdy** and his email is: zalghamdy@islander.tamucc.edu. You will receive a schedule of SI sessions separately from this syllabus. Please take advantage of your SI leader’s expertise. To benefit from SI, students are recommended to attend SI sessions on a regular basis and do not wait until the session before an examination to start attending SI sessions. During SI sessions, your SI leader will review and discuss questions you had difficulty answering correctly.

**Other Policies**  
**Cheating** is defined as:
- Intentionally assisting another student(s) during an exam/exercise
- Copying to any extent the work of another student(s)
- Having access to material related to an exam/exercise during an exam/exercise
Cheating or other academic dishonesty for exams and learning exercises will not be tolerated and will result in a Failing (F) grade for the class. Based on the gravity of the cheating episode, a misconduct case may be reported to the University.

J. COLLEGE AND UNIVERSITY POLICIES

• Academic Integrity (University)
  It is expected that university students will demonstrate a high level of maturity, self-direction, and ability to manage their own affairs. Students are viewed as individuals who possess the qualities of worth, dignity, and the capacity for self-direction in personal behavior. See Full University Policy at: http://catalog.tamucc.edu/content.php?catoid=10&navoid=313#Academic_Integrity

• Classroom/Professional Behavior
  Texas A&M University-Corpus Christi, as an academic community, requires that each individual respect the needs of others to study and learn in a peaceful atmosphere. Under Article III of the Student Code of Conduct, classroom behavior that interferes with either (a) the instructor’s ability to conduct the class or (b) the ability of other students to profit from the instructional program may be considered a breach of the peace and is subjected to disciplinary sanction outlined in article VII of the Student Code of Conduct. Students engaging in unacceptable behavior may be instructed to leave the classroom.

• Deadline for Dropping a Course with a Grade of W (University)
  The grade of W will be assigned to any student officially dropping a course by Friday, November 6, 2015. No student is eligible to receive a W without completing the official drop process by this deadline. Visit the Office of the University Registrar for the Course Drop Form that must be submitted. After November 6, 2015 students will not be allowed to drop a course.

• Grade Appeals (College of Science and Engineering)
  As stated in University Procedure 13.02.99.C2.01, Student Grade Appeal Procedures, a student who believes that he or she has not been held to appropriate academic standards as outlined in the class syllabus, equitable evaluation procedures, or appropriate grading, may appeal the final grade given in the course. The burden of proof is upon the student to demonstrate the appropriateness of the appeal. A student with a complaint about a grade is encouraged to first discuss the matter with the instructor. For complete details, including the responsibilities of the parties involved in the process and the number of days allowed for completing the steps in the process, see University Procedure 13.02.99.C2.01, Student Grade Appeal Procedures. These documents are accessible through the University Rules website at: http://www.tamucc.edu/provost/university_rules/index.html and the College of Science and Engineering Grade Appeals webpage at: http://sci.tamucc.edu/students/GradeAppeal.html
  For assistance and/or guidance in the grade appeal process, students may contact the chair or director of the appropriate department or school, the Office of the College of Science and Engineering Dean, or the Office of the Provost.
• **Disability Services**  
Disability Services (DS) is the hub for coordinating services and accommodations to ensure accessibility and utilization of all programs for all Texas A&M University-Corpus Christi students with disabilities. Our services are designed to meet the unique educational needs of enrolled students with documented permanent or temporary disabilities. DS provides intake and consultation services to students seeking to register with our office. DS reviews an individual’s documentation of disability and assesses eligibility for services and the determination of reasonable accommodations. For more information visit the Disability Services Office at 116 Corpus Christi Hall or go to http://disabilityservices.tamucc.edu/

• **Final Exam**  
Students are not required to take more than two final examinations in any one day. The students who have three or more final examinations scheduled on the same day may request to take the final exam for this course on another day during the final examination period. The process is described below:
1) The student should first try to resolve the matter with the appropriate instructor(s). The schedule with the final exams for the Fall 2015 is available at: http://registrar.tamucc.edu/final_exams/index.html. Therefore, students should already know whether they have to reschedule their final exam. If this is the case, they are strongly encouraged to contact Dr. Mozzachiodi in a timely manner. **Requests about rescheduling the final exam will not be considered if received after October 30, 2015.**
2) If the matter remains unresolved, the student should submit a request for an alternative final exam time in writing to the Office of Student Affairs. This request must be submitted by the drop date, which is November 6, 2015.
3) The Office of Student Affairs will select which of the exams should be taken at an alternative time and formally contact the faculty member at least 15 working days before the final examination period. Preference for selection of which course would have an alternative final exam time must be based on the course with the smaller class size and, then, courses with final exam times in between other exams.
4) The faculty member will then arrange an alternative time for the student to take the final exam for that course that does not conflict with the student’s final exam schedule or require the student to take more than two final exams in one day. If students have difficulties in rescheduling the examination, they should consult with the Office of Student Affairs. Final exams given outside the regularly scheduled time may vary in content and format at the discretion of the faculty member.

K. **OTHER INFORMATION**

**Academic Advising**  
The College of Science & Engineering requires that students meet with an Academic Advisor as soon as they are ready to declare a major. The Academic Advisor will set up a degree plan, which must be signed by the student, a faculty mentor, and the department chair. Meetings are by appointment only; advisors do not take walk-ins. Please call or stop by the Advising Center to check availability and schedule an appointment. The College’s Academic Advising Center is located in Center for Instruction 350 or can be reached at (361) 825-3928.
Religious Holidays
Any student who will miss class and/or test days because of recognized religious holidays should notify me as soon as possible so we can make alternative arrangements. Prior notification is required for such absences to be excused.

Academic Continuity
In the event of an unforeseen adverse event, such as a major hurricane and classes could not be held on the campus of Texas A&M University–Corpus Christi; this course would continue through the use of Blackboard and/or email. In addition, the syllabus and class activities may be modified to allow continuation of the course.

Instructor’s Notes
In choosing to take this course, you are agreeing to abide by the course rules, regulations, and standards. Should you have concerns or questions, you are encouraged to discuss them with the instructor as soon as possible. However, you are bound by these rules, regulations and standards from the first day of class throughout the duration of the course. Failure to comply with course rules or showing disrespect toward the instructor or other classmates will result in removal from the course.

I. ATHLETIC TRAINING EDUCATION PROGRAM COMPETENCIES

Competencies & Proficiencies per Commission on Accreditation of Athletic Training Education (CAATE) 4th edition:

Pathology Competencies Taught & Evaluated
- **PA-C1**: Describe the essential components of a typical human cell. Include the normal structure and the function of each component and explain the abnormal symptoms associated with injury, illness, and disease.
- **PA-C2**: Explain gross cellular adaptations in response to stress, injury, or disease (e.g., atrophy, hypertrophy, differentiation, hyperplasia, metaplasia, and tumors).
- **PA-C3**: Explain normal and abnormal circulation and the physiology of fluid homeostasis.
- **PA-C4**: Identify the normal acute and chronic physiological and pathological responses (e.g., inflammation, immune response, and healing process) of the human body to trauma, hypoxia, microbiologic agents, genetic derangements, nutritional deficiencies, chemicals, drugs, and aging affecting the musculoskeletal and other organ systems, and musculoskeletal system adaptations to disuse.
- **PA-C6**: Describe the body’s responses to physical exercise during common diseases, illnesses, and the injury.

Diagnosis Competencies Taught & Evaluated
- **DI-C16**: Explain medical terminology and abbreviations necessary to communicate with physicians and other health professionals.

GENERAL DISCLAIMER
I reserve the right to modify the information, schedule, assignments, deadlines, and course policies in this syllabus if and when necessary. I will announce such changes in a timely manner during regularly scheduled lecture periods.