

BIOL 414
Animal Histology
Christian Brothers University
Course Syllabus – Spring 2021

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Required Materials: The following texts will be used and are required for this course. Any edition of a text is acceptable unless specified otherwise below.

- Ross, Michael H. and Wojciech Pawlina. 2010. *Histology: A Text and Atlas*. 6th ed. Lippincott Williams & Wilkins. ISBN: 978-0781772006
- Slavney, William F. 2020. *Biology 414 Course Supplement*. Christian Brothers University.

Course Description: Histology is a discipline which examines the structure and correlating functions of tissues and cells using light microscopy, electron microscopy and other specialized microscopic methods. The course will involve a study of general tissue characteristics and will explore histologically and ultra structurally the different tissue types in the body including epithelial, connective, skeletal, blood/vascular, muscular, and neurological tissues as well as the various organ systems including cardiovascular, lymphatic, integumentary (skin), digestive, respiratory, urinary, endocrine, male and female reproductive, and special senses (eye and ear). While the course's emphasis will be a study of the appearance of normal cells and tissues, selected abnormal/diseased tissues will be examined as well (e.g., bone osteoporosis, heart myocardial infarctions, neurological diseases, etc.) and functional correlations will be made. ***This course must be taken in conjunction with BIOL 414L.***

- This course is a Group I biology elective applicable to the biology major.
- ***The course has been structured to afford you every opportunity to develop your ability to learn, to master the required material, and to demonstrate your success in these endeavors. Students who choose to enroll in this course are seeking rigorous pre-professional preparation. This course will provide the level of preparation you require. Nevertheless, you need not feel intimidated by the demanding career path you have selected. I am here to help you overcome any difficulties you may have with the course material and to help you do your best work.***

Prerequisites: Junior or Senior class standing. BIOL 111/L and 112/L (Principles of Biology I and II) with grades of "C" or better, four additional hours of Biology preferably in courses of anatomy and physiology, and CHEM 114/L. In addition, CHEM 315/L (Biochemistry I) is preferred and will be helpful, but is not required.

Course Objectives: The primary objectives of this course are to . . .

- Demonstrate proficiency and expertise in the proper use of the light microscope in examining histological specimens on glass slides.
- Understand the basic concepts of tissue fixation, dehydration, embedding, sectioning, staining and mounting of slides for histological examination, immunofluorescent staining and electron microscopy.

- Recognize, identify and describe the characteristic structures of cells, tissues and organ systems of the body at the light microscope histologic level, and for selected tissues, at the electron microscopic ultrastructural level.
- Know and understand the characteristics of tissues of the body (epithelium, connective, muscle, nerve) and their relationships in the various organ systems of the human body.
- Understand the basic functions of cells and cellular organelles, tissues and organ systems of the body as correlated with their histological structures.
- Identify and understand the histological features of selected tissues/organ systems resulting from disease processes (e.g., atherosclerosis, osteoporosis, pulmonary pneumonia, etc).

Professionalism: It is good to form a habit of behaving in a professional manner. Behavior that is prohibited includes: the use of inappropriate language; playing with cell phones, tablets, laptops, and calculators in class; falling asleep; being disrespectful to the professor or fellow classmates; not addressing a teacher (or any faculty) by his/her appropriate title; putting legs/feet on tables or desks. If a student engages in any of this behavior, he/she may be removed from the class.

Shared Responsibility: I will in every instance treat students like rational, capable, and responsible adults they are. I take responsibility for making this class interesting, engaging, and informative. Students will be expected to take responsibility for their performance, active engagement, and satisfaction for of this course's rules and requirements. If you feel like you are in "trouble" in this course at any time – whether that regards matters related to assignments, exams, or comprehension of the material – please come speak to me sooner rather than later. (Prevention is always better than cure.) We are not antagonists in this venture. I want every student to do well!

Personal Responsibility: I do expect a certain level of responsibility, maturity, and integrity from you. I have I very high expectations, and I am sure you can meet them. You've made it this far, which means you have what it takes to get through this class. No excuses, and no giving up. Discuss any issues you may have with me as soon as they arise, and we will come up with a plan to tackle them. Understand, that while I want to see everyone do well and have no ill will towards anyone, it is **NOT** my responsibility to keep your GPA up, or to help you keep that scholarship, or whatever reason it is important that you do well here. These are your responsibilities. My responsibility is to facilitate you learning the material in this syllabus. I shall keep that responsibility. Please keep yours. Help me help you, and don't be shy or afraid to seek help when you need it. You can do well here; it will just take some directed effort and persistence.

Work Ethic: You are not to slack off! You are to read ahead! Very Important! Review each section before coming to class. It's better if you have your mind working on the concepts before coming to class—it will be easier for you to keep up and ask intelligent questions. Start working hard from day 1, don't put yourself in a position where you'll have to catch up. Prevention is better than cure. ***If you've taken this class before, you should be working harder than everyone else.***

**** Class meetings will be used to highlight/supplement/complement the material in the texts; however, you should NEVER expect me to "read" the text or assigned articles for you. Regularly preparing for class and regularly attending class are two of the easier things you can do to be successful, but they are also two of the most important things you can do as well.**

Classroom Learning Experience: Do not expect a homogeneous learning experience. This will not be the case and it is not good for you anyway. The text, my lectures, homework, and tests all have their place in helping you learn. Don't expect them to all be the same or cover the same

material in the same way with the same level of difficulty. This is an unrealistic and unhelpful expectation. Throughout the course, I will be giving you the info you need to be prepared.

Electronic Devices: The use of any electronic device in my class is strictly prohibited. All electronic devices (pagers, phones, computers, calculators, MP3, iPods, apple watches, or any device after 1980) are to be stowed away prior to entering my class. If you walk into my classroom and you have a digital device on your person or sitting out on the table, you will be docked a letter grade. Pay attention!

Attendance Policy: Students are expected to be *on time* and *attend all classes*. The first three absences are “free” (but not recommended—they should be reserved for righteous influenzas, deceased relatives, and other legitimate personal emergencies), the fourth absence and each additional absence automatically knocks the final semester grade in the course down by an entire letter grade. On the seventh absence, the student will automatically fail the course. Tardiness is also a problem! You get one human factor tardy, meaning there is no penalty. Each additional tardy after the first, however, lowers your final course grade by five points. (e.g. If you had a 93 and you have two tardies, your final grade would be an 88.) Also, leaving before I dismiss the class will be counted as an absence.

Absences have a way of snowballing. Trust me, I know the cycle: you don’t finish an assignment, so you don’t come to class, and then you’re afraid to come back to class, but then you miss more assignments, so you miss more class. Just come to class, whether you have your work or not. I’ve seen near-geniuses fail due to absences. That said, don’t B.S. me. You’re an adult. Stuff happens. Don’t waste your time or mine with elaborate excuses and doctors’ notes.

Grades: The work that you do and the learning that you accomplish in this class are more important than your grade. I am aware that grades are important to you. However, if you come speak to me about your performance in this course, expect that our conversation will be about how to improve your work or your understanding of the material, not about how to improve your grade.

At the end of the semester, there will be a handful of people that need “just a few points” to get the grade they desire. The extra credit assignments given will be designated as THE mechanism to get these points. ***I WILL NOT NEGOTIATE GRADES AT THE END OF THE SEMESTER.*** It is my expectation that you will accept the grade assigned to you and take responsibility for **YOUR** work throughout the semester. Grade negotiation always leads to someone receiving special treatment and is a policy that I cannot abide as I desire to maintain an atmosphere of academic honesty and integrity. If you are concerned about your grade, please come and talk to me **DURING** the semester when something can be done about it.

Please note that your grade will be calculated as indicated below. You are all perfectly capable of determining your point total (and therefore your grade) at any given time. Thus, you should not ask me to help you calculate your grade. If you do, I will refer you to this document.

Grading Policy: As far as grading goes, letter grade assignments for this course will conform to the Christian Brothers University standard scale.

100 – 90 = A / 89 – 80 = B / 79 – 70 = C / 69 – 60 = D / below 60 = F

Grading in this course will be based on the total points earned over the total possible points. Your grade will be based upon the effort you put into this course. With that being said, I do not and will not round your final grade. If you have an 97.99% you will have a 97.0 (A) average for the course.

Exams: In this course, there will be five lecture exams and a cumulative final exam, each worth 250 points. In a sense, all exams in this course will be cumulative; The questions on the second and third exams will emphasize the most recently covered material since the previous exam; however, any material from the previous exam(s) also will be fair game. No exam scores will be curved or dropped. A study guide for each exam will be given in class and posted on my website about a week prior to the date of the exam. If you miss an exam, for any reason, it is a zero on that exam. No exceptions!

Quizzes: Quizzes will typically not be given. In this unusual case there is a quiz in this class, the quiz could cover any material up to the point where we currently are. Most quizzes will tend to cover information covered from the lectures, laboratory, supplements, assignments, and course textbook. Should a quiz be given, it will be worth 20 points and added to the possible point total. No quiz scores will be dropped in this course, if there are any. A missed quiz, just like a missed exam, is an automatic zero for that quiz. No exceptions!

Homework: Homework assignments will be given rarely in this course. Each given homework assignment will be worth 5 points and be graded based on accuracy. All homework must be turned in on the due date using the proper format and on time. NO late (or incorrectly formatted, I will discuss formatting in class) homework will be accepted under any circumstances. If the assignment is not turned in AT THE BEGINNING of the class period, before I start teaching in other words, in which homework is collected, a zero will be awarded for that assignment. Homework assignments can be found on the course website and Canvas.

Course Deadlines: **LATE WORK WILL NOT BE ACCEPTED!** Only in a case involving unusual and documented circumstances can the student be given an extension on a deadline. I will employ the strictest possible definitions of “unusual” and “documented,” so be forewarned that it is exceedingly difficult (read: almost impossible) to warrant an extension. Being sick, although documentable, is not unusual and not merit an extension. Being abducted by aliens, although unusual, is not documentable and also will not merit an extension. In other words, consider deadlines in this course as “hard” deadlines.

Classroom Communication: Should there be a need that I have to contact the entire class, I will contact you via your college CBU email and post it to my website, so be sure to check your college email address and my website regularly. Please read the emails.

Office Hours: Don't be scared of coming to office hours! I genuinely enjoy talking to my students outside of class. If you're struggling or confused by some aspect of the class, don't wait until you're failing—come see me! However, don't feel like you need to have a major crisis. You're perfectly welcome to stop by for a casual chat or general guidance/questions. If you're not taking advantage of your professors' office hours, you're not fully taking advantage of the college experience. Individual access to experts in a variety of fields is a big part of what you're paying for.

Shared Responsibility: I will in every instance treat students like rational, capable, and responsible adults they are. I take responsibility for making this class interesting, engaging, and informative. Students will be expected to take responsibility for their performance, active engagement, and satisfaction for of this course's rules and requirements. If you feel like you are in “trouble” in this course at any time – whether that regards matters related to assignments, exams, or comprehension

of the material – please come speak to me sooner rather than later. (Prevention is always better than cure.) We are not antagonists in this venture. I want every student to do well!

Academic Honesty: Dishonesty of any kind will not be tolerated in this course. Dishonesty includes, but is not limited to, cheating, plagiarizing, fabricating information or citations, facilitating acts of academic dishonesty by others, having unauthorized possession of examinations, submitting work of another person or work previously used without informing the instructor, or tampering with the academic work of other students. All policies for academic honesty will be strictly enforced in all that you do for this course.

Grades are given as an evaluation of your work. Any attempt to pass somebody else's work as your own or being found in violation of academic honesty will earn you a grade of a F for the course as well as a possible academic dismissal from the institution.

Confidentiality of Academic Work: The Family Educational Rights and Privacy Act of 1974 recognizes specific rights held by you as a student. These include your right to consent or denial of disclosure of your academic records, including any and all grades pertaining to this course. In accord with FERPA, apart from the following stated exceptions, I will not discuss your personal academic work in this course with anyone without your written consent, as filed with the Registrar. The exceptions are: 1) reporting your grades at the end of the semester to the Registrar, 2) cases where performance in the course is low to the point of potential failure in the final grade, in which case I may consult with the Academic Dean, 3) cases where, in my estimation, you may present a danger to yourself or to others.

Students, of course, are free to discuss the specifics of their personal academic performance with whomever they wish. However, the instructor will not be held responsible for any disclosures made by the student on the student's own volition, or for any consequences of such self-disclosures.

Students with Disabilities: Any student who may need class or test accommodations based on the impact of a disability is encouraged to speak with CBU's Dean of Students privately to discuss your specific needs. Students with disabilities should also contact Student Disability Services in the Thomas Center at (901) 321-3536. Student Disability Services coordinates reasonable accommodations for students with documented disabilities. If you have a disability or difference that requires assistance from the Office of Disability Services, please bring me documentation so that we can ensure that the proper arrangements will be made for you.

Lastly, An Important Note to My Students: I CARE ABOUT YOU AND I TAKE YOU VERY SERIOUSLY!

YOU, the student, as a whole person, are my top priority as a teacher. Given the rigor of the course, and the fact that students are often participating in other school and community activities or obligations, at times significant stress can result. While stress is normal (and can actually be a positive thing in the right circumstances), it should never be suffocating. Students should first and foremost know that the language of my classroom is one of love and laughter. Your well-being matters more to me than any test score or grade could ever mean. You should also know that my door is always open to you, and I am here to listen and provide as much support as I can. If the workload of the course becomes overwhelming, please come talk to me individually, so that we can strategize how to make things work while also accomplishing the objectives of the course. College courses are not for everyone, and there is no shame in struggling. Honors courses and grades do not define who you are as a person or as a student. Sometimes, through absolutely no fault of our own, the weight of the stresses and emotions in our lives become overwhelming. Students should

know that I, and other staff members at the university, including our professionally trained guidance counselors, are always willing to listen free of judgement. However, if you do not feel comfortable talking with me or someone else here, a few important free numbers that you can utilize 24/7/365 are:

- **Crisis Text Line: Text “HOME” to 741741**
Every person who texts is connected with a Crisis Counselor, an actual person trained to bring you from a difficult moment to a cool calm through active listening and collaborative problem solving, and provide further resources as necessary.
- **TrevorText for LGBTQ College Students: Text TREVOR to 1-202-304-1200**
TrevorText is a confidential and secure resource that provides live help for LGBTQ college students with a trained specialist.
- **The National Suicide Prevention Lifeline: 1-800-273-8255**
A national network of local crisis centers that provides free and confidential emotional support to people in suicidal crisis or emotional distress.

Finally, Good Luck and May God Bless You!

Note: I reserve the right to make any changes to this syllabus and its accompanying directives as circumstances internal or external to our learning experience may unfold in unanticipated ways throughout the semester.