

BIO 323
Human Anatomy Physiology II
Spring 2015; T/R, 9:25 – 10:40am
301 Cox Science Language

Course Description: This course is a continued study of human biology from BIO 313. Students will investigate the structure and function of the endocrine, circulatory, immune, respiratory, digestive, urinary, and reproductive systems. The normal functions and integration of these systems will be explored in the context of their dysfunction through pathological case studies. This course takes a notably more cellular approach than BIO 313, and students will gain practice in assessing chemical physiological indicators, and researching the associated primary clinical literature. Concurrent enrollment in BIO 324 required.

2014-2015 Academic Catalog: <http://www.williamwoods.edu/catalogs/1415/undergraduate/index.aspx>

Course Prerequisites: Prior satisfactory completion of Human Anatomy Physiology I; enrollment in BIO 324 is co-requisite.

Required Textbook/Materials: Silverthorn, D. U. *Human physiology: an integrated approach (6th ed.)* Pearson, 2013. Bundled with MasteringA P.

Technology Use Expectations: Messages via WWU email are official communication; students are responsible for regularly checking their WWU email accounts. Technology issues should be directed to UIT, (ext. 4224; helpdesk@williamwoods.edu).

Course Goals:

With satisfactory completion of BIO 323, students will:

1. Demonstrate anatomical knowledge of the systems studied.
2. Integrate concepts of cellular physiology with function at higher levels (*e.g.* tissue and organ).
3. Develop comfort and skill with oral and written scientific communication.
- 4.



3. Contributes to an overview of the major organ systems of the human body and the normal and pathological functioning of those organ systems.
6. Demonstrate knowledge of scientific methodologies and usage of current scientific equipment and technologies.

BIO 323 will also touch on these Biology Program Objectives but not address them directly:

2. Converse with the basic tenets of transmission, molecular, developmental and population genetics.
4. Demonstrate knowledge of the diversity and taxonomy of organisms, and the significance of variation in morphology, behavior, and life history.
5. Explain the role that natural selection, genetic drift, and other phenomena have had on the production of biological diversity and the role evolution has in integrating explanations of both the unity and diversity of life.

Assessment Procedures and Course Assignment Details: Grades are earned through the completion of scheduled unit exams, quizzes, the writing of a brief pathology paper, and a final exam.

Information addressing all of the above objectives is presented through assigned text case readings, literature research, PowerPoint presentations, videos, in-class activities, and seminar-style discussions. Formative assessment of student achievement in all objectives is performed via class discussions, activities and quizzes. Summative assessment is performed with unit exams, a comprehensive final exam, and a small research paper.

Unit Exams: Taken during scheduled course meeting times (see syllabus schedule). They will be comprehensive across units where necessary. Exams consist of multiple choice, modeling problems, short and long essays, and may cover assigned reading materials not directly discussed in class meetings. Make-up exams are offered only in consideration of extraordinary circumstances. In the case of absence from an exam because of a University-sponsored activity, the student should arrange a time to take the exam beforehand.

Final Exam: A final **comprehensive exam will be given Thursday, May 7, starting at 9:25AM.** Make-up final exams

Grading Scale:

600 points are distributed among the course assignments by the following scheme:

Breakdown of Points	
<i>Activity</i>	<i>Total Value</i>
Unit Exams (3)	300
Quizzes (10)	75
Pathology Paper	75
Final Exam	150
Total Available for Semester	600

Final letter grades are based on the percentage of points achieved.

Percentages from lecture and lab (BIO324) will be combined into one final grade.

BIO 323 is weighted as $\frac{3}{4}$ of the final grade and BIO 324 as $\frac{1}{4}$.

Passing scores must be received in both BIO 323 and BIO 324 to pass the course.

Letter Grade Ranges	
<i>%Points Earned</i>	<i>Letter</i>
<60%	F
60%, <70%	D
70%, <80%	C
80%, <90%	B
90%	A

Policy on Late Work: Work not submitted on time incurs an immediate 20% penalty and accrues an additional 20% penalty every day late (including weekends) until 0.

Attendance Policy: Attendance at every class meeting is expected. Excused absences include official university business and illness with legitimate documentation.

Class Conduct and Participation Expectations: Students are expected to work hard, ask questions, and discuss relevant information. Much learning is borne out of open-ended discussions on anatomy physiology, therefore students are expected to be prepared for group work and impromptu discussion with other class participants. All participants are expected to be respectful of others.

ADA Guidelines:

Students who choose to disclose a disability are responsible for notifying the University of their disability on a timely basis. Questions about disability services should be directed to the University's coordinator for disability services. Contact information is (573) 592-1194 or ada@williamwoods.edu. The office is on the first floor of the Academic Building. D 48-BDC [D 48-BDC [D 48-BDC [(:)1000F00 222.17 Tm2 Tr 0.31543ri-2(3)]4(d o)9(3(ff

Academic Integrity Policy :

Academic Credit Hour Definition:

Tentative Course Schedule

Exams dates will not change, unless required by University circumstance(s).

Quiz dates are tentative and may change with the pace of content coverage.

Reading numbers correspond to Silverthorn chapters.

Dates

Topic