

**University of Mississippi School of Dentistry
University of Mississippi School of Graduate Studies and Health Sciences**

Course Syllabus

Dent 675, Dental Physiology/Physio 725, Fundamentals of Physiology

Credit Hours: Dent 625 – 9
 Physio 725 – 8 Contact Hours: 108

1) GENERAL INFORMATION

Course Director: Thomas H. Adair, Ph.D.
Professor, Physiology and Biophysics
G159
tadair@umc.edu

Course Coordinator: Kendall Ratliff
Education Administrator, Physiology and Biophysics
G251
601-984-1810
klratliff@umc.edu

Class Meeting Information: Monday/Wednesday/Friday
10:00-11:50am
R354
unless otherwise noted

2) COURSE DESCRIPTION

Dent 625/Physio 725 provides the student with knowledge of the basic functions of the cells, tissues, organs and organ systems, and how they interrelate to accomplish the many and diverse functions of the human body.

3) LEARNING RESOURCES

Required Textbook: *Textbook of Medical Physiology*, A.C. Guyton and J.E. Hall, Elsevier/Saunders. Latest Edition.

Required Course Materials: Laptop computer, personal response device for Turning Point quizzes (tablet, smartphone, etc.)

4) PARTICIPATING FACULTY

Thomas Adair, Professor of Physiology and Biophysics
Barbara Alexander, Professor of Physiology and Biophysics
Alejandro Chade, Professor of Physiology and Biophysics
Heather Drummond, Professor of Physiology and Biophysics
Eric George, Assistant Professor of Physiology and Biophysics
David Stec, Professor of Physiology and Biophysics

5) COURSE GOALS AND OBJECTIVES

Dent 625/Physio 725 is designed to provide students with knowledge of the basic functions of the cells, tissues, organs and organ systems, and how they interrelate to accomplish the many and diverse functions of the human body.

The course objectives are provided by the participating faculty and are located in Canvas.

6) EVALUATION

The grades will be based upon Dental National Board style examinations and daily quizzes. There will be seven exams (total ~295 points) during the course and a comprehensive final exam (100 points) at the end of the course. In addition, there will be one or more quiz questions during each hour of lecture that will have a total point value of 0.5 points per hour of lecture. The quiz questions can include any material presented previously in a given block as well as material that will be presented on the day of the quiz. The number of questions on the various exams/quizzes will be approximately as follows:

Block	Instructor(s)	Block exams	Hourly quizzes
1. Nerve-Muscle-Heart	Adair	40	5.5
2. GI Physiology	Adair	35	5.0
3. CNS, Special Senses	Adair	40	5.5
4. Circulation	Alexander/Chade	55	8.0
5. Respiration	Drummond	35	5.0
6. Kidney, Body fluids	Stec	35	4.5
7. Endocrine/Reproduction	George	55	8.0
Final Exam	All instructors	100	
Total Points		395	41.5

We will use online testing software (ExamSoft) to administer block exams as well as the final exam. Daily quizzes will be administered using Turning Point software and personal response devices (computer, phone, tablet, etc.). If a personal response device malfunctions, each student may turn in a paper response up to 5 times throughout the course. All personal response devices must be registered through Turning Point. Additional information about ExamSoft and Turning Point, including instructions on how to register, can be found on Canvas.

The types of questions that will be given on the exams and final will be similar to those used on the physiology portion of the National Board Dental Examinations. Each question will count the same as other questions for a given exam, but material considered more important by the individual instructors will be represented most heavily on the exams.

Grading Scale: A = 90% - 100%
B = 80% - <90%
C = 70% - <80%
F = <70%

7) SPECIFIC CLASS POLICIES AND PROCEDURES

Attendance

We will adhere to the following dental school attendance policy:

“Students are expected to attend all classes. Arriving late for or leaving early from class beyond the bounds set by the course coordinator will be counted as an absence. If a student is absent from a class, the student must contact the course coordinator by UMMC email prior to the next class session to make up the missed class. Any additional remedial assignments for the missed class will be at the discretion of the course coordinator. Failure to complete a missed class assignment in the time designated by the course coordinator will result in a failing grade (50) for that assignment. Failure to report an absence to the course coordinator prior to the next class session or failure to successfully complete any remedial assignment in the time designated by the course coordinator will result in a penalty of three points off the course final grade for each occurrence.”

All dental students must attend all clinical correlations. Any dental student who is absent on a clinical correlation day will be required to write a 2500 research paper on the subject matter of the correlation. Although graduate students are not required to attend clinical correlations, it is strongly advised that you do so. Most of the correlations emphasize basic physiological principles presented in the lectures.

Classroom and Testing Policies

All students are required to study and sign the Examination Honor Code before they will be eligible to take an exam or daily quiz. The honor code also applies to the daily questions. Also, no pictures are to be taken during the daily questions or during any post-test review sessions. If a student is found taking pictures of questions, their grade for the course will be penalized.

Challenging Test Questions

Students will be allowed to submit challenges for test questions in writing to instructors for up to one week after the test. No question challenges will be considered thereafter. Students may also contact the course coordinator to review questions they missed on each test for up to one week after the test.

Course and Instructor Evaluations

You will have an opportunity to evaluate each instructor before and immediately after each of the seven exams as well as the entire course after the final exam. We hope you will perform this task with objectivity because the evaluations play a key role in our question to achieve excellence in the course. The course coordinator will pick up the evaluations in the classroom on evaluation day.

Dental Physiology/Fundamentals of Physiology Award

A bookstore cash award and plaque will be awarded to the student with the highest grade point average in the class. The award requires that all tests are taken during normal testing times since we do not offer makeup tests in physiology. Any type of absence from a test (excused or unexcused) disqualifies the student from an award. Separate awards will be given for the dental and graduate student classes.

8) MEDICAL CENTER OR SOD-WIDE POLICIES/STATEMENTS

All references are to the current *SOD Student Handbook*

https://www.umc.edu/sod/Students/files/sod_student_handbook.pdf

- a. **Academic Status, p. 8.**
- b. **Policy on Good Academic Standing, pp. 9-10.**
- c. **Attendance Policies, pp. 17-18.**
- d. **Academic Accommodations, p. 57.**
- e. **Dress/Appearance Code, pp. 32-33.**

f. Policy on Ethical Conduct and Professional Behavior, pp. 19-26.

9) COURSE SCHEDULE (INSTRUCTIONAL SESSIONS)

The course schedule is located in Canvas under the Schedule module. You will be notified if any changes are made to the schedule throughout the semester.