

SYLLABUS
Spring 2015
SPPA 1100 – Anatomy & Physiology
T&R 9:30-10:45 Cramer Hall Rm. 38

Instructor: Dr. Jeff Berry (jeffrey.berry@marquette.edu)
Office: Cramer Hall Room 230L or 230U (Lab)
Office Hours: T & R 11:00 – 12:00
3:30 – 4:30
Others by Appointment

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Purpose

The purpose of this course is to develop an understanding the fundamental anatomical components and physiological processes involved in human speech production.

Required Text:

Hixon, T.J., Weismer, G., and Hoit, J.D. (2013). *Preclinical Speech Science: Anatomy, Physiology, Acoustics, Perception, 2nd Edition*. San Diego: Plural Publishing.

Requirements:

Three examinations will be given during the semester. The dates for the exams are listed below. Exams will cover material presented in lectures as well as assigned readings. All exams will be of mixed format (i.e., T/F, Multiple Choice, Fill in the Blank, Matching, and Essay). The third exam as well as a brief multiple choice cumulative exam will be given during the final exam period. The third examination will focus on material presented/read since the second examination (the last “third” of the course) and will follow the format of the first two exams. The cumulative exam will focus on material presented/read throughout the course and will be all multiple choice.

Exam 1: **Thursday Feb. 12th 9:30-10:45**

Exam 2: **Thursday Mar. 26th 9:30-10:45**

Exam 3: **Tuesday May 5th 1:00-3:00**

Each student will be required to write a brief review of a published research paper. Each student will find a suitable paper to review. The paper must be approved by the professor. The topic of the research paper should pertain to some aspect of speech anatomy and/or physiology and should be published in a peer-reviewed research journal. An acceptable citation for the proposed research paper will be

due by **March 5th**. The completed paper will be due by **April 16th**. The completed paper will receive up to 50 points. Guidelines for this assignment will be provided.

Each student will be assigned membership in a group with the goal of constructing a functional model of one of the subsystems of the human speech mechanism. The subsystem modeled and the materials used to build the model will be determined by the group with requisite approval from the professor by **March 31st**. Each group will present its completed model to the class on **April 30th**. The modeling project will be worth a maximum of 50 points. Student scores will be based on a combination of peer review scores for individual contributions to the project and group scores based on adherence to project guidelines and creativity.

Grading Procedure:

Examinations (3)	100 Points Each
Cumulative Exam	100 Points
Review Paper	50 Points
Model	50 Points
TOTAL	500 Points

Failure to take any examination will result in 0 points.

Make-up examinations will not be offered without an official excuse.

Final grade will be based upon the total number of points accumulated out of total possible points, as well as overall class performance.

Grading Scale:

93 and Above	= A
88-92	= AB
83-87	= B
78-82	= BC
73-77	= C
68-72	= CD
63-67	= D
62 and Below	= F

Academic Integrity

Students, faculty, and staff at Marquette University developed a Statement on Academic Integrity that recognizes the importance of integrity, both personal and academic, and includes an Honor Pledge and Honor Code applicable to all.

The Honor Pledge:

I recognize the importance of personal integrity in all aspects of life and work. I commit

myself to truthfulness, honor and responsibility, by which I earn the respect of others. I support the development of good character and commit myself to uphold the highest standards of academic integrity as an important aspect of personal integrity. My commitment obliges me to conduct myself according to the Marquette University Honor Code.

Student Obligations Under the Honor Code:

1. To fully observe the rules governing exams and assignments regarding resource material, electronic aids, copying, collaborating with others, or engaging in any other behavior that subverts the purpose of the exam or assignment and the directions of the instructor.
2. To turn in work done specifically for the paper or assignment, and not to borrow work either from other students, or from assignments for other courses.
3. To give full and proper credit to sources and references, and to acknowledge the contributions and ideas of others relevant to academic work.
4. To report circumstances that may compromise academic honesty, such as inattentive proctoring or premature posting of answers.
5. To complete individual assignments individually, and neither to accept nor give unauthorized help.
6. To accurately represent their academic achievements, which may include their grade point average, degree, honors, etc., in transcripts, in interviews, in professional organizations, on resumes and in the workplace.
7. To report any observed breaches of this honor code and academic honesty.

Attendance:

Attendance is expected at all class meetings. Make-up examinations will not be offered without an official excuse.

Acceptable anticipated absences:

- The student is away from campus representing an official university function, e.g., participating in a professional meeting, as part of a judging team, or athletic team.
- Required court attendance as certified by the Clerk of Court.
- Religious observances when certified by a letter from the student's parent(s) or religious leader.
- Required military duty as certified by the student's commanding officer.

Acceptable emergency absences:

- Illness or injury when certified by an attending physician, dentist, or nurse. The certification should show the date service was provided to the student but should not describe the nature of that service.
- Death or serious illness in the immediate family (parents, step-parents, siblings, spouse, children, step-children, foster children, in-laws, sibling in-laws, grandparents, great grandparents, step-great grandparents, grandchildren, aunts, uncles, nieces, and nephews) when certified by a letter from the student's parent(s) or spouse.

ASHA Certification Standards:

Satisfactory completion of this course is intended to assist students in meeting the following knowledge and skills required for the American Speech-Language-Hearing Association (ASHA) Standards for the Certificate of Clinical Competence in Speech-Language Pathology:

- Standard IV-A: The applicant must have demonstrated knowledge of the biological sciences, physical sciences, statistics, and the social/behavioral sciences.
- Standard IV-B: The applicant must have demonstrated knowledge of basic human communication and swallowing processes, including the appropriate biological, neurological, acoustic, psychological, developmental, and linguistic and cultural bases. The applicant must have demonstrated the ability to integrate information pertaining to normal and abnormal human development across the life span.
- Standard IV-F: The applicant must have demonstrated knowledge of processes used in research and of the integration of research principles into evidence-based clinical practice.

WI-DPI Standards:

Satisfactory completion of this course is intended to assist students in meeting the following requirements for WI-DPI Licensure in Speech-Language Pathology:

- Standards 1, 6, and 10.

Outcome Objectives:

At the end of this course, students should be able to:

- 1) Describe the structural and functional organization of the respiratory system, the laryngeal system, the velopharyngeal-nasal system and the pharyngeal-oral system.
- 2) Identify and discuss tools for physiological measurement of these systems.
- 3) Explain how these four systems contribute to the processes of speech.
- 4) Describe fundamental breakdowns in these systems that may be diagnosed and treated in the clinical environment.

General Course Outline:

Introduction & Orientation Hixon et al., Chapter 1

Respiratory System Hixon et al., Chapter 2

Exam 1 (Feb. 12th)

Respiratory System (cont.) Hixon et al., Chapter 2

Laryngeal System Hixon et al., Chapter 3

Exam 2 (Mar. 26th)

Velopharyngeal-Nasal System Hixon et al., Chapter 4

Pharyngeal-Oral System Hixon et al., Chapter 5

Exam 3 and Cumulative Final (May 5th)