

**COURSE: SPPA 444 - VOICE DISORDERS**

**SCHEDULE:** Spring 2007  
12:30 a.m. - 1:45 p.m.  
T,Th

**INSTRUCTOR:** Lena G. Caesar, Ed.D., CCC-SLP  
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**PREREQUISITES:** SPPA 234 (Introduction to Speech-Language Pathology and Audiology)  
SPPA 280 (Anatomy and Physiology of Speech and Hearing)

**COURSE DESCRIPTION:** A study of the anatomy and physiology of the vocal mechanism, with special emphasis on normal and abnormal processes. Basic principles in the assessment and treatment of functional, organic and neurological voice pathologies will also be covered.

**REQUIRED TEXTBOOKS:**

Case, J.L. (2002). Clinical management of voice disorders, (4<sup>th</sup> ed.), Austin, Texas: PRO-ED.  
Deem, J.F., & Miller, L. (2000). Manual of voice therapy. Austin, Texas: PRO-ED.

**COURSE OBJECTIVES:**

By the end of the semester the student will be able to:

1. Identify the anatomical structures central to voice production.
2. Discuss the physiology of voice production.
3. Explain a variety of etiologies of voice disorders and their clinical manifestations.
4. Outline diagnostic procedures for voice disorders.
5. Outline basic treatment techniques for a variety of voice disorders.
6. Appreciate the Master Designer's handiwork as demonstrated in the complexity and intricacy of the structure and function of the vocal mechanism.

## **Course Overview:**

### **Unit 1 - Normal Processes of Voice Production**

- i. Vocal Anatomy and Physiology
- ii. Phonation Theories
- iii. Normal Vocal Characteristics

### **Unit 2 - Evaluation Procedures in Voice Management**

- i. Screening
- ii. Evaluation of specific Vocal Parameters
- iii. Perceptual Rating Scales
- iv. Instrumentation in voice Assessment

### **Unit 3 - Clinical Management of Abuse/Misuse**

- i. Vocal Nodules
- ii. Contact Ulcers and Granulomas
- iii. GERD
- iv. Organic Disorders
- iv. Management Strategies

### **Unit 4 - Neurogenic Voice Disorders**

- i. Laryngeal Innervation
- ii SLN/Vagus Nerve Lesions
- iii. Etiologies and Treatment of Laryngeal Paralysis
- iv. Dystonias and Dysarthrias
- v. Treatment for Neurogenic Voice Disorders

### **Unit 5 - Psychogenic Voice Disorders**

- i. Conversion Dysphonia/Aphonia
- ii. Puberphonia
- iii. Paradoxical Vocal Fold Dysfunction
- iv Gender Dysphoria and Reassignment

### **Unit 6 - Alaryngeal Communication**

- i. Laryngeal Cancer
- ii. Alaryngeal phonation (extrinsic and intrinsic)
- iii. Rehabilitation of laryngectomized persons
- iv. Tracheoesophageal Puncture

### **Unit 7 - Resonance and Miscellaneous Disorders**

- i. Hypernasality/Hyponasality assessment and treatment
- ii. Treating Hearing Impaired/Deaf individuals

### iii. Miscellaneous Voice Disorders

#### **Didactic Methods:**

- A. Lecture
- B. Group Learning Activities
- C. Case Study Approaches
- D. Observational and Hands-On Experience
- E. Independent Research

#### **COURSE REQUIREMENTS:**

1. **Prompt attendance** is not only a logical expectation but also a requirement. Students who arrive 10 minutes or less after the start of class will be marked tardy. Students arriving after the first ten minutes of class have elapsed will be in violation of the attendance policy, and will not be considered present. If more than 5 class periods are missed, a grade of **F** will be recorded. (Remember that 3 tardies equal one absence).

2. **Eight (8) chapter pre-evaluations**, worth 5 points each, will be scheduled during the quarter. These will be given at the beginning of the class period, prior to any discussion of the topic (chapter). These pre-evals assume that students have faithfully and thoroughly read the assigned chapter(s) and are therefore ready to state an opinion or share general information based on their reading. **Please note that students are responsible for information contained in their assigned readings, whether or not that information has been specifically discussed in class. Chapter pre-evals may not be made up.**

3. **Two partial exams**, (worth 80-100 points) will be administered as per schedule. Examinations will be of both the objective/short answer variety and the narrative/longer answer variety. **THERE WILL BE NO FINAL EXAM**, but students will be required to make their oral presentations during final exam time.

4. **An 8-10 page literature review research paper\***, regarding a specific aspect of Vocal Anatomy, Physiology, Pathology, Diagnosis and/or Treatment is required of each student. Although students will be expected to write on a topic of their choice, students will be assigned an area of emphasis during the first week of class. Specific topics chosen **must** first be cleared with the Instructor. The final date for topic clearance is **February 6**. The goal/focus/purpose of the paper should be clearly articulated in a **Thesis Statement**, which, along with **an outline** and a listing of a minimum of **10 references from academic journals (1996-2006)**, are due by

**March 6.** The final paper is due on **April 19**, at class time. Papers arriving after 3:00 p.m.\*\* on that day will **NOT** be accepted. The paper is worth 150 points which will be allocated as follows:

<b>Presentation:-</b>	10
<b>Content:-</b>	80
<b>Organization/Clarity:-</b>	15
<b>Grammar/Spelling:-</b>	20
<b>OUTLINE:-</b>	25

\*Please follow APA (5<sup>th</sup> edition) format for all aspects of your research paper/Outline.

\*\*There will be a twenty-five percent (25%) deduction on papers arriving after 11:20 a.m. and before 3:00 p.m.

5. Each student will prepare a **clinical portfolio** for a hypothetical individual with a voice disorder associated with one of the following disabilities:

- a. Functional Voice Disorders (Vocal Nodules, Polyps, etc)
- b. Organic Voice disorders (NOS)
- b. Vocal cord paralysis
- c. Spasmodic Dysphonia
- d. Conversion Dysphonia
- e. Puperphonia
- f. Trans-sexual Voice Therapy
- g. Laryngeal Cancer
- h. Sulcus Vocalis
- i Essential Voice Tremor
- j. Voice and Craniofacial Anomalies
- k. Dysarthria and the Voice
- l. Voice and HI individuals
- m. Issues related to Voice assessment and treatment

The portfolio, **worth 100 points**, will include the following:

- a. Case History Forms
- b. Referral Letter(s)
- c. Copies of Test formed (filled out)
- d. Complete diagnostic report
- e. Sample Therapy Plan
- f. Any other relevant communication

Note: The portfolio should coincide with the area of your research paper. **The late paper policy as outlined in the item above, also applies to the portfolio.**

**6. Oral presentation.** Students will be expected to make an oral presentation to the class during the last week of the quarter. The oral presentation should summarize the contents of the research paper, but should NOT be a verbatim reading of the research paper. Students will be judged on their familiarity with the subject as demonstrated by their ability to convey the subject matter and their ability to respond to questions in an adequate and informed manner. Visuals, including a 1-page outline of the presentation, should be used to supplement the presentation.

**5. Participation.** Students are expected to contribute to class discussions and participate in class activities. Students electing not to participate will forfeit points available for this requirement.

**GRADES:** Grades will be calculated on a straight percentage of points achieved to total points possible, based on:

1. Chapter Pre-evals (7)	70 points
2. Partial exams (3)	300 points
3. Portfolio	100 "
4. Research Paper	150 "
5. Oral Presentation	30 "
6. Participation	<u>20</u>
	670 points

**Grading Scale:**

(In percentages)

94 - 100	A
90 - 93	A-
86 - 89	B+
82 - 85	B

**MISCELLANEOUS INFORMATION:**

1. Late projects will **NOT** be accepted. If you plan to be sick, absent, busy, etc, make sure your assignments are done beforehand.
2. "Academic dishonesty includes (but is not limited to) the following acts:
  - i. Falsifying official documents;
  - ii. Plagiarizing, which includes copying others' published work, and/or failing to give credit properly to other authors and creators;
  - iii. Misusing copyrighted material and/or violating licensing agreements (actions that may result in legal action in addition to disciplinary action taken by the University:

- iv. Using media from any source or medium, including the Internet (e.g. print, visual images, music) with the intent to mislead, deceive or defraud;
- v. Presenting another's work as one's own (e.g. homework assignments);
- vi. Using materials during a quiz or examination other than those specifically allowed by the teacher or program;
- vii. Stealing, accepting, or studying from stolen quizzes or examination materials;
- viii. Copying from another student during a regular or take-home test or quiz;
- ix. Assisting another in acts of academic dishonesty (e.g. falsifying attendance records, providing unauthorized course materials)."

Students who collaborate in dishonest acts are also held responsible for them. A student may be dismissed or suspended from the university for cheating or plagiarizing.(Andrews University 2003-2004 Bulletin, p. 24). In addition, the student will receive a reduced grade (a score of zero will be given on whatever quiz, exam, paper, project, etc. that was involved in the incident), and may receive a failing grade in the course. Faculty in the Department of Speech-Language Pathology will consult on any academic dishonesty issue to determine the penalty that will be applied.

- 3. If you qualify for accommodations under the American Disabilities Act, please see the instructor as soon as possible for referral and assistance in arranging such accommodations.

## **Tentative Schedule**

<u><b>Date</b></u>	<u><b>Topic</b></u>	<u><b>Readings &amp; Assignments</b></u>
<b>Jan</b> 9	Introduction & Orientation	
11	Anatomy and Physiology	Chapter 1: Pre-eval
16	Anatomy and Physiology	
18	Library Day	
23	Evaluation Principles & Procedures	Chapter 3: Pre-eval
25	Evaluation Principles & Procedures	
30	Evaluation Principles & Procedures	
<b>Feb</b> 1	Functional Disorders	Chapter 4: Pre-eval
6	Functional Disorders	<b>Topic Clearance</b>
8	Organic Disorders	Chapter 8: Pre-eval (pp. 331 –344)
13	Organic Disorders	
15	<b>Exam # 1</b>	
20	Laryngeal Innervation	Chapter 5: Pre-eval
22	VF Paralysis	
27	VF Paralysis	Guest Speaker
<b>Mar</b> 1	Spasmodic Dysphonia	
6	Spasmodic Dysphonia	<b>Paper Outline Due</b>
8	Essential Voice Tremor	
13	Dysarthria	
15	<b>Exam # 2</b>	
20- 22	<b>SPRING BREAK</b>	
27	Psychogenic Voice Disorders	Chapter 6: Pre-eval
29	Psychogenic Voice Disorders	<b>Portfolio Due</b>

### Tentative Schedule (cont'd)

<u>Date</u>	<u>Topic</u>	<u>Assignments</u>
April 3	Psychogenic Voice Disorders	
5	Alaryngeal Voice Disorders	Chapter 7: Pre-eval
10	Alaryngeal Voice Disorders	
12	Alaryngeal Voice Disorders	<b>Paper Due</b>
17	Resonance & Misc. Disorders	Chapter 8 - (pp. 307-331)
19	Resonance & Misc, Disorders	
24	<b>Management Strategies</b>	
26	<b>Exam # 3</b>	
May 1	<b>FINAL PRESENTATIONS</b>	





