FLORIDA ATLANTIC UNIVERSITY

Graduate Programs—NEW COURSE PROPOSAL

**DEPARTMENT:** COMMUNICATION SCIENCES AND DISORDERS

**COLLEGE:** EDUCATION

**RECOMMENDED COURSE IDENTIFICATION:**

**PREFIX**: SPA  
**COURSE NUMBER**: 5033 
**LAB CODE** (L or C) 

**COMPLETE COURSE TITLE:** Introduction to Audiological Sciences

**EFFECTIVE DATE**

(first term course will be offered)

FALL 2016

**CREDITS:**

3

**TEXTBOOK INFORMATION:**

**GRADING (SELECT ONLY ONE GRADING OPTION):**

REGULAR  
PASS/FAIL  
SATISFACTORY/UNSATISFACTORY

**COURSE DESCRIPTION:**

This course examines a variety of techniques that are used for the evaluation of hearing. Additionally, a wide range of conditions that result in hearing loss will be explored. The use of rehabilitation strategies and electronic devices such as hearing aids and cochlear implants and the role of audiologists in the management of hearing loss will be described.

**PREREQUISITES:**

NONE

**COREQUISITES:**

NONE

**REGISTRATION CONTROLS (MAJOR, COLLEGE, LEVEL):**


**MINIMUM QUALIFICATIONS NEEDED TO TEACH THIS COURSE:** PHD OR CLINICAL DOCTORATE IN AUDIOLGY

Faculty contact, email and complete phone number:

ALI A. DANESH, PHD
DANESH@FAU.EDU
5612972071

Please consult and list departments that might be affected by the new course and attach comments:

3. Consent of affected departments (attach if necessary)

Date: 3-16-2016
3/16/16
3/22/16

FAUnewersGrad—Revised July 2015
DEPARTMENT OF COMMUNICATION SCIENCES AND DISORDERS
FLORIDA ATLANTIC UNIVERSITY
Fall 2016
Course Syllabus
SPA 5033
Introduction to Audiological Sciences

Professor: Dr. Ali Danesh, M.S., PhD, CCC-A, FAAAA
Office: Rm 434 College of Education
Phone: (561) 297-2071 (Office)
297-2258 (Communication Disorders Clinic) & 297-6074 (Department Office)
E-mail: danesh@fau.edu
Website: http://www.coe.fau.edu/faculty/danesh/
Office Hours: TBA
Class Time: TBA
Class Location: TBA
Number of Credits: 3
Prerequisite: None

Required Text:


COURSE DESCRIPTION: This course examines a variety of techniques that are used for the evaluation of hearing. Additionally, a wide range of conditions that result in hearing loss will be explored. The use of rehabilitation strategies and electronic devices such as hearing aids and cochlear implants and the role of audiologists in the management of hearing loss will be described.

COURSE OBJECTIVES:
The student will be able to demonstrate:

1. Knowledge of the anatomical/physiological organization of the auditory system.
2. Knowledge of the etiology and effects of hearing impairment
3. Knowledge of pathological conditions of the auditory system and their management.
4. Knowledge of the various procedures for testing hearing and interpreting hearing test results.
5. Knowledge of different types of programs available to hearing impaired students and their management.
6. Knowledge of amplification equipment and assistive listening devices.
7. Knowledge of the rehabilitation techniques for hearing-impaired adult.

Internet Resources:

See below or type keywords such as audiology, hearing, and hearing loss in search engines.
The American Auditory Society
www.amauditorysoc.org

The American Speech Language Hearing Association
www.asha.org

The American Academy of Audiology
www.audiology.org

American Tinnitus Association
www.ata.org
Assignments:

1. Readings: Students are required to read the text and other supporting materials.
2. Term Project: Each student is required to research/review one of the following subjects: 1) a pathological condition that results in hearing loss (e.g., genetic disorders, trauma, accidents, diseases, etc) 2) any topic related to audiology, hearing aids, cochlear implants, tinnitus, balance disorders, and rehabilitation of hearing impaired individuals. Each paper must be between 500-750 words; double spaced, and must include references (words for references will not count toward the total number of word count!). Plagiarism will not be tolerated. All of the papers should be submitted in electronic format (e.g., e-mail attachment) and hard copy. Papers randomly may be submitted to safeassign software for verification and plagiarism purposes. Some well written papers may be published on line on the course or instructor’s website with your name. Include all of your references and sources including internet sources. Please see me if you have any questions regarding your project. Failure to submit the project will result in an F grade. See below for the due dates.

GRADING POLICY:

1. Project: 10% (i.e., 10 points) of your final grade. Failure to submit the project will result in an F grade.
2. Three tests will be given (30% each).

GRADING SCALE:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>A</td>
<td>93-100</td>
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<tr>
<td>A-</td>
<td>90-92.99</td>
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<tr>
<td>B+</td>
<td>87-89.99</td>
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<td>B</td>
<td>83-86.99</td>
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<td>B-</td>
<td>80-82.99</td>
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<td>67-69.99</td>
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<tr>
<td>D</td>
<td>63-66.99</td>
</tr>
<tr>
<td>F</td>
<td>&lt; 63%</td>
</tr>
</tbody>
</table>

ATTENDANCE POLICY: According to University policies “Students are expected to attend all of their scheduled University Classes and to satisfy all academic objectives as outlined by the instructor.” Attendance includes meaningful, active involvement in all class sessions, class discussions, and class activities as well as professional, ethical, conduct in class. Reasonable accommodations are made for religious observances.

STUDENTS WITH DISABILITIES: In Compliance with The Americans with Disabilities Act (A.D.A.), students who require special accommodations due to a disability to properly execute coursework must register with the Office for Students Accessibility Services (SAS) located in Boca – SU 133 (561-297-3880), in Davie – MOD I (954-236-1222), or in Jupiter – SR 117 (561-799-8585) and follow all SAS procedures. The purpose of this office “is to provide reasonable accommodations to students with disabilities.” Students who require assistance should notify the professor immediately by submitting a letter from the SAS to your instructor requesting your need of specific assistance. Without such letter, the instructor is not obligated to make any accommodations for students.
CODE OF ACADEMIC INTEGRITY: Students at Florida Atlantic University are expected to maintain the highest ethical standards. Academic dishonesty, including cheating and plagiarism, is considered a serious breach of these ethical standards, because it interferes with the University mission to provide a high quality education in which no student enjoys an unfair advantage over any other. Academic dishonesty is also destructive to the University community, which is grounded in a system of mutual trust and places high value on personal integrity and individual responsibility. Harsh penalties are associated with academic dishonesty. For more information, see http://www.fau.edu/regulations/chapterd/4.001_Code_of_Academic_Integrity.pdf.

ANTI-DISCRIMINATION AND ANTI-HARASSMENT POLICY: Students, faculty and staff at Florida Atlantic University are expected to abide by the published anti-discrimination and anti-harassment policy: https://www.fau.edu/eic/files/5.010_Anti-Discrimination_and_Anti-Harassment.pdf

CELLPHONE POLICY: Off or silent mode!

ELECTRONIC ETIQUETTE: We are living in an electronic era. Use of technology in my classes is acceptable as long as there is no abuse. You can use your laptop in my class for note taking or surfing the web for course materials ONLY.

POLICY REGARDING PLAGIARISM AND CHEATING: There is a zero-tolerance policy for students found plagiarizing or cheating. Students who are found cheating or plagiarizing will receive an immediate “F” in the course.

Class Schedule

Class Sessions  Topic/Reading

I  MANDATORY READING" THE AUDITORY SYSTEM" FROM DALE F. WILLIAMS (Ed) (see BB)  
Introduction to Audiology (Chapter 1), Anatomy and Physiology of the Auditory System (Chapter 3)  
http://www.asha.org/ (American Speech and Hearing Association)  
http://www.nidcd.nih.gov/ (National Institute of Deafness and Other Communication Disorders)  
http://www.audiologyonline.com/audiology/newroot/default.asp (sign up needed)  
http://www.iurc.montp.inserm.fr/crico/audition/english/start2.htm (anatomy)

II  Anatomy and Physiology continued; Introduction to Basic Acoustics (Chapter 2)  
http://www.augie.edu/perry/ear/hearmech.htm (anatomy)  
http://www.rcsullivan.com/www/ears.htm (otoscopic views)  
http://serous.med.buffalo.edu/hearing/ (central auditory pathway)  
http://hyperphysics.phy-astr.gsu.edu/hbase/sound/soucon.html#soucon (Excellent acoustics website)  
https://georgetown.app.box.com/s/e3vppq8hpqgsdfcnl

III  Anatomy and Physiology continued; Introduction to Basic Acoustics (Chapter 2)  
Visit and familiarize yourself with materials in the following websites:  
http://www.sfu.ca/sonic-studio/handbook/index.html  
http://hyperphysics.phy-astr.gsu.edu/hbase/sound/soucon.html#soucon  
http://library.thinkquest.org/19537/?tqskip1=1&tqtime=0619

IV  Basic Acoustics Continued;  
http://www.mmk.e-technik.tu-muenchen.de/persons/ter.html (advanced acoustics)

V  Audiologic assessment, techniques, tools (Chapters4, 5, 6, 7, 8, 9 and 10)  
http://www.va.gov/621guillen/clinics/asp/Products/PRIMER/pr-index.htm (Audiology Primer)  
http://www.aap.org/otitismedia/www/v0/ear/rvw/rvw1.cfm (otoscopy)  
http://www.audiologyawareness.com/hhelp/audiogram.htm (audiograms)
VI  Test One Audiologic assessment (continued)
    http://www.jsu.edu/depart/dss/VRProject/audiograms.html (how to read audiograms)
    http://www.bcm.tmc.edu/oto/studs/aud.html (basic info)

VII Audiologic assessment, techniques, tools continued.
    http://www.asha.org/hearing/testing/index.cfm (screening)

VIII Audiogram Practice. Audiologic assessment, techniques, tools continued (Chapters 4, 5, 6, and 7)
    http://www.bcm.tmc.edu/oto/studs/innear.html (basic info)

IX Audiogram Practice. Audiologic assessment, techniques, tools continued (Chapters 8, 9 & 10)
    http://www.emedicine.com/ent/topic371.htm (speech audiometry)

X Hearing tests for children, Referral, Screening and Identification (Chapters 8, 9 & 10).
    http://infanthearing.org/ehdi-ebook/ (FREE E-BOOK ABOUT HEARING LOSS IN CHILDREN)
    http://www.nidcd.nih.gov/health/hearing/otitismedia.asp (otitis media)

XI Test Two. Nature and types of hearing impairment (chapters 11 and 12)
    http://www.augie.edu/perry/ear/heardis.htm (Hearing Disorders)
    http://www.nidcd.nih.gov/health/hearing/index.asp (ear diseases)
    http://www.entnet.org/

XII Nature and types of hearing impairment; continued (chapters 11 & 12).
    http://www.merck.com/pubs/mm manual/section7/sec7.htm (ear diseases/medications)
    http://www.bgsu.edu/zoology/toxicity/tox1.html#TOUTLINE (ototoxicity)
    http://www.turnittothefl eft.com/
    http://www.occupationalhearingloss.com/ (NIHL) NOISE INDUCED HEARING LOSS
    http://library.gallaudet.edu/dr/faq-etiol.html (glossary)
    http://www.nidcd.nih.gov/health/healthyhearing/tools/pdfs/Presbycusis.pdf (presbycusis article)
    http://www.youtube.com/watch?v=MGi-cdn2M9g (noise exposure)
    http://www.youtube.com/watch?v=kLSYq5kau_w (turn it to the left)

XIII Management of the Hearing Impairment, Hearing aids, Amplification (Chapters 13, 14, 15 and 16).

XIV Management of the Hearing Impairment continued (Chapters 14 and 15).
    Cochlear implants. Assistive listening devices
    http://www.nidcd.nih.gov/health/hearing/coch.asp (cochlear implants)
    http://www.augie.edu/perry/ear/ear.htm (general info)
    http://dept.kent.edu/hearingaidmuseum/development.html (Hearing Aid museum)
    http://www.audiologynet.com/hearing-aids.html (hearing aid info)

Project Due Date.

XV Test Three
BIBLIOGRAPHY


No conflict with Counselor Ed.

Sent from my iPhone

On Mar 14, 2016, at 7:52 PM, Ali Asghar Danesh <Danesh@fau.edu> wrote:

Dear Chairs and Faculty,

The department of Communication Sciences and Disorders would like to propose a new course “SPA 5033: Introduction to Audiological Sciences”.

COURSE DESCRIPTION:

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Attached please find proposed syllabus for this course. Please advise if the proposed course interferes with any courses from your department.

Sincerely,

Ali Danesh. PhD

Ali A. Danesh, PhD, FAAA, Board Certified, American Board of Audiology
Professor, Director of Audiology Clinic,
Department of Communication Sciences and Disorders
Professor of Clinical Biomedical Science (Secondary), College of Medicine
Florida Atlantic University
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P.O. Box 3091
Boca Raton, Florida 33431-0991

+1.561.297.2071 (office)
+1.561.297.2258 (Clinic)
+1.561.297.2268 (Fax)
danesh@fau.edu  http://www.coe.fau.edu/faculty/danesh/

Please consider the environment before printing this email.
No conflicts with CCEI.

Dr. Emery J. Hyslop-Margison
Professor and Chair
Department of Curriculum, Culture and Educational Inquiry
College of Education
Florida Atlantic University
Boca Raton, FL 33431

Email: ehyslop@fau.edu
Phone: 561-297-3965
Fax: 561-297-2925

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