

FLORIDA ATLANTIC UNIVERSITY™

Graduate Programs—NEW COURSE PROPOSAL¹

UGPC APPROVAL _____
 UFS APPROVAL _____
 SCNS SUBMITTAL _____
 CONFIRMED _____
 BANNER POSTED _____
 CATALOG _____

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

CREDITS²:

3

TEXTBOOK INFORMATION:

James W. Hall, III, PhD, **Introduction to Audiology Today (First Edition) (The Allyn & Bacon Communication Sciences and Disorders Series) (2015). ISBN-13: 978-0-205-56923-6 ISBN-10: 0-205-56923-4**

GRADING (SELECT ONLY ONE GRADING OPTION): REGULAR PASS/FAIL _____ SATISFACTORY/UNSATISFACTORY _____

COURSE DESCRIPTION, NO MORE THAN THREE LINES:

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 AUDIOLOGY

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.⁵

DEPARTMENTS AT THE COLLEGE OF EDUCATION

DEPARTMENT OF CLINICAL BIOMEDICAL SCIENCES, COLLEGE OF MEDICINE

DEPARTMENT OF PSYCHOLOGY, COLLEGE OF SCIENCE

Department Chair: Deena Louise Wemer

College Curriculum Chair: Paul R. I. Iler

College Dean: Valery J. Krustar

UGPC Chair: _____

Graduate College Dean: _____

UFS President: _____

Provost: _____

Date:

3-16-2016

3/16/16

3/22/16

1. Syllabus must be attached: see guidelines for requirements:

www.fau.edu/provost/files/course_syllabus_2011.pdf

2. Review Provost Memorandum: **Definition of a Credit Hour**

www.fau.edu/provost/files/Definition_Credit_Hour_Memo_2012.pdf

3. Consent of affected departments (attach if necessary)

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, FAAA
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:

James W. Hall, III, PhD, Introduction to Audiology Today (First Edition) (The Allyn & Bacon Communication Sciences and Disorders Series) (2015). ISBN-13: 978-0-205-56923-6 ISBN-10: 0-205-56923-4

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

Vestibular Disorders Association
www.vestibular.org

The American Academy of Otolaryngology-Head and Neck Surgery
www.entnet.org/

Academy of Doctors of Audiology

www.audiologist.org

Academy of Rehabilitative Audiology

www.audrehab.org

Better Hearing Institute

www.betterhearing.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:

A	=	93-100	C+	=	77-79.99
A-	=	90-92.99	C	=	73-76.99
B+	=	87-89.99	C-	=	70-72.99
B	=	83-86.99	D+	=	67-69.99
B-	=	80-82.99	D	=	63-66.99
			F	<	63%

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 of 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/chapter4/4.001_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	<p>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.audiology.org/index.php (American Academy of Audiology) 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/cric/audition/english/start2.htm (anatomy)</p>
II	<p>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/e3vppqf8hpqdsdfcnhls</p>
III	<p>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</p>
IV	<p>Basic Acoustics Continued; http://www.mmk.e-technik.tu-muenchen.de/persons/ter.html (advanced acoustics)</p>
V	<p>Audiologic assessment, techniques, tools (Chapters 4, 5, 6, 7, 8, 9 and 10) http://www.va.gov/621quillen/clinics/asp/Products/PRIMER/pri-index.htm (Audiology Primer) http://www.aap.org/otitismedia/www/vc/ear/rvw/rvw1.cfm (otoscopy) http://www.audiologyawareness.com/hhhelp/audiogrm.htm (audiograms)</p>

- 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/screened.asp> (hearing tests for children)
<http://www.nidcd.nih.gov/health/hearing/otitismedia.asp> (otitis media)
<http://www.nidcd.nih.gov/health/statistics/hearing.asp> (statistics)
- 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/mmanual/section7/sec7.htm> (ear diseases/medications)
<http://www.bgsm.edu/neurology/toxicity/tox1.html#TOUTLINE> (ototoxicity)
<http://www.turnittotheleft.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/pdf/Presbycusis.pdf> (presbycusis article)
<http://www.youtube.com/watch?v=MGj-cdn2M9o> (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

- Alpiner, J.G. & McCarthy, P.A. (2000). *Rehabilitative Audiology: Children and Adults*. (3rd Edition). Baltimore, MD: Lippincott, Williams and Wilkins. ISBN 0-683-30652-9.
- Berger, E.H. (2003). *The Noise Manual*. (5th Edition). American Industrial Hygiene Association. ISBN 0- 931504-02-4.
- Chermak, G.D. & Musiek, F.E. (2006). *Handbook of (Central) Auditory Processing Disorder: Volume II Comprehensive Intervention*. San Diego, CA: Plural Publishing Inc. ISBN 1-59756-057-X.
- Dillon, H. (2001). *Hearing Aids*. New York, NY: Thieme. ISBN 1-58890-052-5.
- Gelfand, S. (2009). *Essentials of Audiology*. (3rd Edition). New York, NY: Thieme. ISBN 978-1-604-06044-7.
- Hall, J. & Mueller, H.G. (1998). *Audiology Desk Reference: Volume I Diagnostic Audiology Principles, Procedures and Practices*, San Diego, CA: Singular. ISBN 1-56593-269-2.
- Hall, J. & Mueller, H.G. (1998). *Audiology Desk Reference: Volume II Audiologic Management, Rehabilitation and Terminology*. San Diego, CA: Singular. ISBN 1-56593-711-2. Jacobson, J.T. (1994). *Principals and Applications in Auditory Evoked Potentials*. Boston, MA: Allyn & Bacon. ISBN 0-205-14846-8.
- Katz, J., Medwetsky, L., Burkard, R. & Hood, L. (2009). *Handbook of Clinical Audiology*. (6th Edition). Baltimore, MD: Lippincott, Williams and Wilkins. ISBN 0-7817-8106-X. Martin, F.H. & Clark, J.G. (2009). *An Introduction to Audiology*. (10th Edition), Boston, MA: Allyn & Bacon. ISBN 0-205-59311-9.
- Mueller, H.G., Hawkins, D.B., & Northern, J. L. (1992). *Probe Microphone Measurements, Hearing Aid Selection and Assessment*. San Diego CA: Singular. ISBN 1-87910-568-3. Musiek, F.E. & Rintelmann, W.F. (1999). *Contemporary Perspectives in Hearing Assessment*. Boston, MA: Allyn & Bacon. ISBN 0-205-27457-9.
- Musiek, F.E., & Chermak, G.D. (2006). *Handbook of (Central) Auditory Processing Disorder: Volume I Auditory Neuroscience and Diagnosis*. San Diego, CA: Plural Publishing Inc. ISBN 1-59756-056-1.
- Northern, J. L. (1996). *Hearing Disorders*. (3rd Edition). Boston, MA: Allyn & Bacon. ISBN 0-205-15226-0.
- Northern, J.L. & Downs, M.P. (2001). *Hearing in Children*. (5th Edition). Baltimore, MD: Lippincott, Williams and Wilkins. ISBN 0-683-30764-9.
- Robinette, M.S. & Glatke, T. (2007). *Otoacoustic Emissions*. (3rd Edition), New York, NY: Thieme. ISBN 978-1-588-90411-9 / 978-3-131-03713-8. SAC. (2005). *Code of Ethics*. Speech-Language & Audiology Canada. (
- Valente, M., Hosford-Dunn, H. & Roeser, R. (2008). *Audiology Diagnosis*. (2nd Edition). New York, NY: Thieme. ISBN 978-1-588-90542-0 / 978-3-131-16432-2.
- Valente, M., Hosford-Dunn, H. & Roeser, R. (2008). *Audiology Treatment*. (2nd Edition). New York, NY: Thieme. ISBN 978-1-588-90520-8 / 978-3-131-16422-3. Suggested References

Ali Asghar Danesh

From: Paul Peluso
Sent: Monday, March 14, 2016 8:57 PM
To: Ali Asghar Danesh
Cc: Michael Brady; Robert Shockley; Barbara Ridener; Michael Whitehurst; Emery Hyslop-Margison; Deena Wener
Subject: Re: New Course Proposal: SPA 5033 Introduction to Audiological Sciences

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:

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.

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
777 Glades Road
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.

Ali Asghar Danesh

From: Emery Hyslop-Margison
Sent: Monday, March 14, 2016 8:04 PM
To: Ali Asghar Danesh
Subject: Re: New Course Proposal: SPA 5033 Introduction to Audiological Sciences

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

From: Ali Asghar Danesh
Sent: Monday, March 14, 2016 7:52 PM
To: Michael Brady; Paul Peluso; Robert Shockley; Barbara Ridener; Michael Whitehurst; Emery Hyslop-Margison
Cc: Deena Wener
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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