



MAUD 203: Pediatric Audiology

Medical Audiology Sciences Program
FHS-FM Division of Health Professions
American University of Beirut

Course Syllabus – Fall 2019

INSTRUCTOR INFORMATION:

Name:	Malek Abu-Safieh, Au.D, CCC-A, ABA, Aud (C)
Office:	Medical Audiology Sciences (MAS) Faculty Offices, AUBMC, SB
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Office Hours:	Tuesday 11:00 – 12:00 p.m.; Thursday 1:00 – 3:00 p.m.; or by appointment

COURSE INFORMATION:

Day / Time:	Monday and Wednesday: 12:30 p.m. – 1:45 p.m.
Place:	VanDyck 101
Level/Credits:	Undergraduate / 3 semester hours
Prerequisites:	MAUD 200
Moodle Site:	MAUD 203 Moodle Site

COURSE DESCRIPTION:

This course surveys methods and procedures used in the evaluation and management of auditory function in neonates, infants, and young children. It includes identification and intervention procedures. There will be a review of special populations of children with hearing loss. Development of early hearing loss detection and intervention programs will be discussed.

COURSE FORMAT:

MAUD 203 is taught in a traditional format via classroom lectures and video demonstrations. Students will meet in the classroom for didactic lectures. Students will get the chance to apply knowledge acquired in this course during the ORLG 220 sessions.

STUDENT LEARNING OBJECTIVES/OUTCOMES:

1. Demonstrates basic knowledge of infant general development, basic principles of genetic inheritance, speech perception and auditory development in normal hearing children.
2. Demonstrates a basic understanding of the primary etiologies underlying hearing loss in the pediatric population.
3. Demonstrate knowledge of the importance of early identification of hearing loss and methods used to screen hearing in newborns and children.
4. Able to explain and demonstrate the different behavioral and physiological measures used to evaluate children.
5. Describes the relevance of the questions asked on a pediatric case history.
6. Able to document evaluation procedures, interpret test results and write a concise report of the findings.
7. Demonstrates a general knowledge of intervention strategies and management considerations for infants and children who have hearing loss, including those from special populations.

REQUIRED TEXTBOOK AND READINGS:

Required Readings:

Articles or book chapters corresponding to session topics will be assigned throughout the course. Assigned readings will be accessible online (via the **MAUD 203 Moodle Site**).

Different chapters from the following book will be accessible online via the Moodle Site:

M. Downs, J Northern (2002). Hearing in Children. 5th edition. Lippincott, Williams and Wilkins.

GUIDELINES FOR SUCCESS IN THE COURSE:

MAUD 203: Pediatric Audiology is one of the core courses in the MAS program. A lot of material will be covered in the course, so the keys to being successful are to: (1) read the material suggested for each section prior to class (2) be an active participant and ask questions whenever a concept is ambiguous.

ASSESSMENT METHODS AND GRADING CRITERIA:

The following table summarizes the ways in which your learning will be assessed throughout this course.

METHOD	% OF GRADE	LINKED TO OBJECTIVE
Classwork/Exercises/Drop quizzes	15	1-2
Midterm Exam	35	1,2, 3, 4
Final Exam	40	1 - 7
Presentation	10	2, 7
TOTAL	100	

N.B: Passing grade for this course is 60

Classwork/Exercises/Drop Quizzes:

Periodically throughout the semester, you will be given written exercises to complete and drop quizzes. These exercises aim to enhance concepts introduced in class. The instructor reserves the right to administer drop quizzes during the semester.

Exams:

Two exams will be given during the course, including a **Midterm** and **Final Exam**. Students will be given one hour to complete the Midterm Exam, and two hours for the Final Exam. The format will be a mixture of multiple-choice, true/false, short answer questions, and short essay questions.

Presentation:

You will be working in a group of two on this assignment. During the first class session, a list of disorders will be provided. The partner is randomly selected and then you may choose one disorder to research. You and your partner will prepare a short PowerPoint (PPT) presentation. When you present the disorder in class, you must limit your presentation to 15 minutes followed by 5 minutes period of Q/A so that all pairs will have a chance to present. A grading rubric will be used to assess your presentation. At least two scientific references are required. You will be graded on: the content of the presentation, the layout of the PowerPoint and on verbal presentation style. Each team member is to be evaluated separately on that last aspect.

List of Syndromes:

Down Syndrome	Ototoxicity	Autistic Spectrum Disorder	Connexin 26 Hearing Loss	Auditory Neuropathy Spectrum Disorder (ANSI)
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Presentation outline: pathophysiology, risk factors, incidence and prevalence, prognosis, medical profile, audiology clinical profile, audiology results and management.

OTHER IMPORTANT INFORMATION:

Attendance:

Attendance will be taken in this course. You are expected to attend and participate in classroom activities. If you miss a class, it is your responsibility to make up for the material missed and inquire about any announcements made. As per [AUB General Regulations](#), students who miss more than one-fifth of the sessions of any course in the first ten weeks of the semester are dropped from the course.

Late Assignments:

All assignments must be completed by the due dates specified to receive full credit, unless the student obtains explicit permission from the instructor for a delayed submission. If permission is granted, typically a student will be given one week to finalize the assignment without penalty. If a student does not obtain permission from the instructor and turns in the assignment late (but within five days of the due date), a penalty of -1% per day will be applied; submissions later than five days from the due date will not be accepted and zero points will be given for that activity.

Missed Quizzes/Exams:

All quizzes and exams must be completed on the date specified. *(The only delays that will be considered by the instructor are for documented illness, death in the family, and personal/family emergency).*

Moodle Support:

Moodle will be used in this course. Students should check the *Moodle* course site at least once per week for announcements, guidelines, resources, and assessment instructions/due dates. Should you have any difficulty with *Moodle*, you can consult [Moodle for Students](#).

Cell Phones:

The use of cell phones is **prohibited in the classroom**, even when set to vibrate. Cell phones are extremely disruptive to your classmates and to the instructor. Please make a point to turn off your cell phone before entering class. **All cell phones must be placed on your desk face down during class.**

Students with Disabilities:

AUB strives to make learning experiences accessible for all. If you anticipate or experience academic barriers due to a disability (such as ADHD, learning difficulties, mental health conditions, chronic or temporary medical conditions), please do not hesitate to inform the Accessible Education Office. In order to ensure that you receive the support you need and to facilitate a smooth accommodations process, you must register with the Accessible Education Office (AEO) as soon as possible: accessibility@aub.edu.lb; +961-1-350000, x3246; West Hall, 314.

Student Code of Conduct:

Any dishonesty related to academic work or records constitutes academic misconduct. Academic misconduct is a serious ethical violation and will not be tolerated. If you're in doubt about what constitutes plagiarism, ask your instructor because it is your responsibility to know. The American University of Beirut has a strict anti-cheating and anti-plagiarism policy. Penalties include failing marks on the assignment in question, suspension or expulsion from University and a permanent mention of the disciplinary action in the student's records. Penalties may range from loss of credit for a particular assignment to dismissal from the University. Kindly, review AUB's [Student Code of Conduct](#) about plagiarism.

Non-Discrimination – Title IX - AUB:

AUB is committed to facilitating a campus free of all forms of discrimination including sex/gender-based harassment prohibited by Title IX. The University's non-discrimination policy applies to, and protects, all students, faculty, and staff. If you think you have experienced discrimination or harassment, including sexual misconduct, we encourage you to tell someone promptly. If you speak to a faculty or staff member about an issue such as harassment, sexual violence, or discrimination, the

information will be kept as private as possible, however, faculty and designated staff are required to bring it to the attention of the University's Title IX Coordinator. Faculty can refer you to fully confidential resources, and you can find information and contacts at www.aub.edu.lb/titleix. To report an incident, contact the University's Title IX Coordinator Ms. Mitra Tauk at 01-350000 ext. 2514, or titleix@aub.edu.lb. An anonymous report may be submitted online via EthicsPoint at www.aub.ethicspoint.com.

MAUD 203

SCHEDULE AT-A-GLANCE

Day	Date	Topic(s)	Reading(s) / Homework (HW)	Course Objectives
Mon	2 Sept	Syllabus		
Wed	4 Sept	Introduction to Pediatric Audiology	Downs, chapter 1 p 1- 49 Estabrooks, chapter 2 p 24- 30	1-7
Mon	9 Sept	Basic Principles of Genetic Inheritance	Downs, chapter 2 p 51- 69	1
Wed	11 Sept	The Nursery Environment Drop Quiz	Downs, chapter 2 p 90-96	1
Mon	16 Sept	Language Acquisition and Speech-Language Development (Brain Plasticity and Critical Period)	Niparko, chapter 2 p 33-40 Downs, chapter 3 p 114-161 (Pertaining Neuroplasticity & Optimal periods).	1
Wed	18 Sept	Natural Language Acquisition (Auditory experience, speech production/social influences and neural basis of language)	Niparko, chapter 12 p 291- 312 Downs, chapter 3 p 114-161(Pertaining prenatal, neonatal hearing development and development of oral communication)	1
Mon	23 Sept	Medical Aspects (Medical assessment of newborn infants/Medical conditions of the peripheral auditory system)	Downs, chapter 4 p 163-188	2
Wed	25 Sept	Medical Aspects (Medical conditions of the peripheral auditory system/Child hood infections/special conditions)	Downs, chapter 4 p 189-209	2
Mon	30 Sept	Early Intervention (concept and principles, services, counseling)	Downs, chapter 5 p 211-245	3
Wed	2 Oct	Behavioral Hearing Tests (Audiologist/child interaction, case Hx, VRA)	Downs, chapter 6 p 247-277	4,5
Mon	7 Oct	Behavioral Hearing Tests (Play audiometry, pediatric speech audiometry)	Downs, chapter 6 p 277- 294	4
Wed	9 Oct	Behavioral Hearing Tests (Testing older children, difficult to test child)	Downs, chapter 6 p 294- 307	4
Mon	14 Oct	Behavioral Hearing Tests (Functional/APD/Report writing)	Downs, chapter 6 p 294 - 307	4-6
Wed	16 Oct	MIDTERM EXAM		
Mon	21 Oct	Physiologic Hearing Tests (Immittance)	Downs, chapter 7 p 309 - 337	4
Wed	23 Oct	Physiologic Hearing Tests (Otoacoustic Emissions/ Evoked Auditory Response)	Downs, chapter 7 p 337- 347	4
Mon	28 Oct	Physiologic Hearing Tests (Evoked Auditory Response-report writing)	Downs, chapter 7 p 347- 371	4

Day	Date	Topic(s)	Reading(s) / Homework (HW)	Course Objectives
<i>Wed</i>	<i>30 Oct</i>	Hearing Screening	Katz chapter 23 p 437 – 458	3
<i>Mon</i>	<i>4 Nov</i>	Hearing Screening	Katz chapter 23 p 437 – 458	3
<i>Wed</i>	<i>6 Nov</i>	Embryology (By Dr. George Zaytoun)		1, 2
<i>Mon</i>	<i>11 Nov</i>	Management (Amplification)	Estabrooks chapter 5 p 128 - 156	7
<i>Wed</i>	<i>13 Nov</i>	Management (ALD/Cochlear Implants)	Niparko chapter 8 p 173 – 180 Downs chapter 9 p 464 – 481	7
<i>Mon</i>	<i>18 Nov</i>	Management (Re/Habilitation Programs)	Pediatric AR chapter 12 p 175 - 190	7
<i>Wed</i>	<i>20 Nov</i>	Management (Re/habilitation Programs, Education)	Pediatric AR chapter 12 p 175 – 190 + other (TBD).	7
<i>Mon</i>	<i>25 Nov</i>	Presentation		2, 7
<i>Wed</i>	<i>27 Nov</i>	Presentation		2, 7
<i>Mon</i>	<i>2 Dec</i>	Comprehensive Review		1 – 7

Final Exam date is TBD.

N.B: Instructor reserves the right to make changes to schedule.