



MAUD 206: Amplification II

Medical Audiology Sciences Program
FHS-FM Division of Health Professions

Courts Syllabus

INSTRUCTOR INFORMATION:

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COURSE INFORMATION:

Days / Time: As announced by the department.
Place: As announced by the department.
Level/Credits: Undergraduate / 3 semester hours
Prerequisites: MAUD 205
Moodle Site: [MAUD 206 Moodle Site](#)

REQUIRED COURSE TEXTBOOK AND READINGS:

Textbook:

H. Dillon (2012). *Hearing Aids, 2nd Edition*. New York: Thieme.

Supplemental Readings:

- The following textbooks are recommended as reference books for the course:
 - Valente, M. (2002). *Strategies for Selecting and Verifying Hearing Aid Fittings*. 2nd ed. New York: Thieme.
 - Taylor, B, and Mueller, H.G. (2011). *Fitting and Dispensing Hearing Aids*. New York: Plural Publishing.
- Articles corresponding to the topics will be assigned throughout the semester, as needed. Supplemental readings will either be accessible online (via the [MAUD 206 Moodle Site](#)) or distributed in class. A complete list of supplemental readings, with bibliographic information, will be posted on **Moodle**.

COURSE DESCRIPTION:

This course covers advanced procedures for selection and fitting of digital and programmable hearing aids. Students will learn subjective quality measurement, current and emerging prescriptive and fitting verification methods, and advanced hearing aid features. Auditory, visual, and vibrotactile receptive communication technologies will be covered, with an emphasis on needs assessment, selection, evaluation, and the validation process. Principles and procedures for implantable hearing devices from pre-candidacy evaluations through postoperative therapies will be discussed.

COURSE FORMAT:

MAUD 206 is taught in a traditional format via classroom lectures, hands-on demonstrations, student presentations, and lab assignments. Students will meet in the classroom for didactic lectures and meet in the lab for demonstrations and laboratory instruction.

STUDENT LEARNING OBJECTIVES/OUTCOMES:

1. Assess patient's candidacy and identify the patient's amplification needs.
2. Determine the hearing aid characteristics including gain, frequency response, and output.
3. Prescribe appropriate amplification, fitting formula, accessories, and features to meet the patient's needs.
4. Assess and prescribe assistive listening devices.
5. Verify the hearing aid performance electro-acoustically.
6. Validate the hearing aid fitting to patient's individual needs using real-ear measurements and speech mapping.
7. Adjust the hearing aid fitting and conduct fine tuning to troubleshoot the patient's complaints.
8. Troubleshoot common hearing aid problems.
9. Interact effectively with patients, families, other appropriate individuals, and professionals.
10. Counsel patients, families, and other appropriate individuals, and apply aural rehabilitation when needed.
11. Provide hearing aid and assistive listening device orientation.
12. Have general knowledge of implantable hearing devices, including types, patient candidacy criteria, and likely outcomes of evaluation, implantation, and rehabilitation.
13. Assess the outcomes of hearing rehabilitation.
14. Explain advantages of binaural hearing and the benefits of bilateral hearing aid fitting.
15. Understand the considerations related to pediatric fitting and how to manage them.

GUIDELINES FOR SUCCESS IN THE COURSE:

The key to being successful in this course is to participate actively in classroom discussions and laboratory sessions, and complete all the required assignments on time. Be sure to ask for clarification (or assistance) when you are unsure about a concept or procedure. You will benefit most from the course if you apply what you are learning in the clinic, as you interact with patients, their families and other professionals.

ASSESSMENT METHODS AND GRADING CRITERIA:

The table below summarizes the ways in which your learning will be assessed throughout this course. Specifically, the table lists the assessment methods, along with the number of times each method will be used, the total number of points, and the percentage contribute to the final grade.

Assignment	Total Grade	Linked to Objective
Project: Parent's guide	5 %	1, 2, 4, 9, 10, 11, 14, 15
Article review	5 %	8
Lab assignments	5 %	5, 6, 7
Attendance, participation, and professionalism	10 %	All
Midterm Exam	35 %	All
Final Exam	40 %	All
TOTAL	100 %	

Project: Parent's guide

The purpose of this project is to help you be prepared with information and resources for parents of hearing impaired children. This includes information about normal hearing, hearing loss, sound, amplification types, CI information, (school, education, and rehabilitation) resources, assistive listening devices, etc. Booklets can be in paper or electronic formats and need to be submitted maximum by the 9th week.

Article review:

Each student will be assigned an article to review and write a one page summary for that article addressing the main highlights addressed in the article. Copying directly from the article is prohibited and will result in giving the student a ZERO grade for this assignment. The summary must be written using the student's own words.

Lab assignments:

Lab assignments will be discussed in class and each student will be conducting electroacoustic measurements and real ear measurements and other assignments if needed. Assignments must be competed individually by each student and submitted by the deadline announced in class.

Attendance, participation, and professionalism:

Attendance to each class and each lab is mandatory. Participation and professionalism are crucial for your success in this course. Regular class attendance is expected. If you must miss a class it is very important you talk to your instructor. Be aware that repeated absence are not appropriate and not acceptable, and may hurt your final grade or result in your segregation from class. Excused absences are given for reasons such as illness, death in the immediate family, and personal/family emergency.

Participation (i.e. classroom attendance, well-developed comments and questions) and **professionalism** are valued in this course. A student who attends and actively participates in all sessions should receive the full 10%. Examples of active participation and professionalism include – but not limited to:

- Demonstrate interest in learning the course material.
- Taking responsibility for your own learning.
- Oral participation in class.
- Participation in laboratory activities.
- Class preparation (e.g., review of previous information and making yourself familiar with assigned reading).
- Checking the course website in Moodle frequently.
- Communicating necessary information to your instructor (in person, via e-mail, or telephone)
- Asking questions when you have them (e.g., in person, via email, or telephone)
- Treating your classmates and instructor with respect and tolerance, understanding that everyone learns differently, and understanding that nobody is perfect and that everyone sometimes makes mistakes.

Exams:

Two exams will be given during the semester (Midterm and Final). The date of the Midterm Exam will be announced and the Final Exam will be given during a pre-scheduled day and time during final exams week. The format for both the Midterm and Final Exam will be a mixture of multiple choice, true/false, short answer, essay questions, etc. The midterm exam worth 35% and the final exam worth 40% of your final grade.

OTHER IMPORTANT INFORMATION:

Late Assignments and Missed Exams:

The Project must be completed by the due date specified by the instructor to receive full credit, unless the student obtains **explicit permission** from the instructor for a delayed submission. If a student does not obtain permission from the instructor and turns in an assignment late, grades might be deducted according to the instructor's judgment. The Midterm and Final Exam must be completed within the time period specified; zero points will be given for an exam if the student does not adhere to the time guidelines.

Moodle Support:

Moodle will be used in this course. Students should check the Moodle course site frequently for announcements, module guidelines, readings, resources, assessment instructions, and due dates. Should you have any difficulty with Moodle, you can consult the [Moodle for Students](#) and the [Moodle Student Guide](#). Additionally, you can contact AUB's Moodle Administrator via email (moodle@aub.edu.lb) or by telephone at extensions: 3518 / 3588 / 3586.

Technology Support:

This course requires that you have access to a computer (e.g., personal or lab computer). The AUB Computing and Networking Service (CNS) can help you with hardware and software requirements for this course. Specifically, the CNS can assist you with (a) account creation and management, (b) computer/system configuration, (c) AUB wireless LAN, (d) online resources, and (e) locating computer labs on campus. For more information about student services, visit the **CNS website** at <http://www.aub.edu.lb/cns/students/Pages/index.aspx>. Students can request technical support/assistance from CNS by contacting them directly by telephone (ext: 2260), or via their online **CNS Help Desk** (<http://www.aub.edu.lb/cns/helpdesk/Pages/index.aspx>).

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 sure to turn off your cell phone / pager before entering the class.

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. Acts such as cheating and plagiarism are viewed as moral and intellectual offenses that are subject to investigation and disciplinary action through appropriate University procedures. Penalties may range from loss of credit for a particular assignment to dismissal from the University. The AUB Student Code of Conduct can be read at: <https://www.aub.edu.lb/sao/Documents/Student%20Handbook%202016-2017.pdf>

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](tel:+961-1-350000), x3246; West Hall, 314'.

AUB Non-Discrimination Policy:

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 Trudi Hodges at 01-350000 ext. 2514, or titleix@aub.edu.lb. An anonymous report may be submitted online via EthicsPoint at www.aub.ethicspoint.com.

Course outline “At-A-Glance”

Week	Sessions	Readings	Learning Objective
1	Assessing Candidacy for hearing aids	Hearing aids 2 nd ed. Pages: 255 – 285	1, 2
2	Prescribing hearing aid amplification	Hearing aids 2 nd ed. Pages: 286 – 335	3, 4
3	Selecting, Adjusting and validating hearing aid performance	Hearing aids 2 nd ed. Pages: 336 – 353	1, 2, 3, 4, 5, 6
4	Problem solving and fine-tuning	Hearing aids 2 nd ed. Pages: 354 – 373	7, 8
5	Patient education and counseling for hearing aid wearers	Hearing aids 2 nd ed. Pages: 374 – 402	9, 10, 11
Midterm exam			
6	Assessing the outcomes of hearing rehabilitation	Hearing aids 2 nd ed. Pages: 402 - 429	13
7	Binaural and bilateral considerations in hearing aid fitting	Hearing aids 2 nd ed. Pages: 430 – 468	14
8	Pediatric fitting: Special hearing aid issues for children	Hearing aids 2 nd ed. Pages: 469 – 512	15
9	CROS, Bone-conduction, and implanted hearing aids	Hearing aids 2 nd ed. Pages: 513 – 536	12
10	Review and Catch up		1 to 15
Final Exam			