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| **1** | **Course title** | Anatomy and Physiology of Hearing and Speech |
| **2** | **Course number** | 1804100 |
| **3** | **Credit hours** | 3 hours per week |
| **Contact hours (theory, practical)** | 3 hours per week (theory) |
| **4** | **Prerequisites/corequisites** | NA |
| **5** | **Program title** | Bachelor in Hearing and Speech Sciences |
| **6** | **Program code** | 1804 |
| **7** | **Awarding institution**  | The University of Jordan |
| **8** | **School** | School of Rehabilitation Sciences |
| **9** | **Department** | Department of Hearing and Speech Sciences |
| **10** | **Level of course**  | Undergraduate/ First year |
| **11** | **Year of study and semester (s)** | 2020-2021/ Second Semester |
| **12** | **Final Qualification** | Bachelor in Hearing and Speech Sciences |
| **13** | **Other department (s) involved in teaching the course** | None |
| **14** | **Language of Instruction** | English and Arabic |
| **15** | **Teaching methodology** | ☐Blended ☐Online |
| **16** | **Electronic platform(s)** | ☐e-learning ☐Microsoft Teams ☐Skype ☐Zoom ☐Others………… |
| **17** | **Date of production/revision** | 14/2/2021 |

**18 Course Coordinator:**

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| Name: Mohammad A. DamhoureyehOffice number: 528Office Hours: Sunday and Tuesday, 2-3 (Via E-mail or Microsoft Teams)Phone number: NoneEmail: m.damhoureyeh@ju.edu.jo |

**19 Other instructors:**

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| Name: Dr. Faten ObaidatOffice number:523Office Hours: Sunday and Tuesday, 1-2 (using Microsoft Teams)Phone number:Email: faten.obeidat@ju.edu.joName: **None**Office number:Phone number:Email: |

**20 Course Description:**

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| As stated in the approved study plan. Study of the anatomy and physiology of hearing and speech mechanisms. It includes hearing and balance, respiratory, phonatory, articulatory and resonance mechanisms, and neurophysiological principles fundamental to the understanding of hearing, speech and voice production. |

**21 Course aims and outcomes:**

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| A- Aims: The major objectives of this course are to provide the students with a basic knowledge of:1. The basic terminology of anatomy
2. The basic anatomy of speech and hearing systems
3. The basic physiology of hearing and speech systems
4. The basic explanation for how the hearing sense and the speech systems coordinate to make a perfect communication.

B- Intended Learning Outcomes (ILOs): Upon successful completion of this course, students will be able to:

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| 1. Program ILO: Demonstrated keep knowledge of the basic human communication processes, as well as the nature of speech, language, and hearing.
 |
| **Specific Course ILO(s):** | 1.1Learn the basic terminology used in anatomy.1.2 Identify the basic structure and function of the hearing, respiration, phonation, articulation, resonance, and nervous systems mechanisms.1.3 Analyze and synthesis the model of larynx, individually, and name each structure of the respiratory, phonatory, articulatory and nervous systems from the anatomical picture for the human body. Then, students will be able to explain how these systems work together to produce speech. Finally, students will be determining each structure of the ear apparatus and their function.1.4 Relate the pathological communication disorders to the language/ speech/ hearing systems anatomy and physiology.1.5 Relate the systems of speech to their physiology1.6 Relate the different systems to each other and to speech1.7 Analyze and interpret mechanisms of hearing.1.8 List, identify, and explain the anatomy and physiology of the external and middle ear including the pinna, ear canal, tympanic membrane, and the middle ear structures involved in the impedance matching process.1.9 List, identify, and explain the anatomy and physiology of the cochlea.1.10 List, identify, and explain the anatomy and physiology of the auditory nerve and the central auditory pathways.1.11 List, identify and explain the anatomy and physiology of the vestibular system.  |
| 1. Program ILO: Identify and apply the basic principles and methods of prevention, assessment and intervention for individuals with communication and hearing disorders.
 |
| **Specific Course ILO(s):** | 2.1 Identify the effects of the different disorders of the auditory and articulation system on hearing and speech and know the basic treatment measures.  |
| 1. Program ILO: Apply the basic clinical skills in working with individuals with communication and hearing disorders.
 |
| **Specific Course ILO(s):** | NA |
| 1. Program ILO: Formulate specific and appropriate intervention plans.
 |
| **Specific Course ILO(s):** | NA |
| 1. Program ILO: Cconducts appropriate diagnostic monitoring procedures, therapy or other actions safely and skilfully.
 |
| **Specific Course ILO(s): NA** |
| 1. Program ILO: Write professional reports for patient with communication and hearing disorders.
 |
| **Specific Course ILO(s):** | NA |
| 1. Program ILO: Apply principles of evidence-based practice in the assessment and intervention processes.
 |
| **Specific Course ILO(s):** | NA |
| 1. Program ILO: Identify ongoing effectiveness of planned activity and modify it accordingly.
 |
| **Specific Course ILO(s):** | NA |
| 1. Program ILO: Analyze the criteria of each assessment and intervention approach and accordingly choose the best technique for each individual case.
 |
| **Specific Course ILO(s):** | NA |
| 1. Program ILO: Employ time management skills in dealing with caseloads and in delivering intervention for individual cases.
 |
| **Specific Course ILO(s):** | NA |
| 1. Program ILO: Demonstrate commitment to lifelong learning, teamwork, scientific research, analysis, interpretation, has the ability to think critically and solve problems, and uses technology to monitor, manage, analyze, and transfer information to generate knowledge and employ it for future uses.
 |
| **Specific Course ILO(s):** | 11.1 Demonstrate the learned skills on other colleagues. 11.2 Identify the effects of the different disorders of the auditory and articulation system on hearing and speech and know the basic treatment measures.11.3 Use variable tools and facilities effectively. |
| 1. Program ILO: Demonstrate the ability to take responsibilities and exercises their rights and duties within the value system of society and their public morals.
 |
| **Specific Course ILO(s):** | 12.1 Demonstrate the learned skills on other colleagues. |

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**22. Topic Outline and Schedule:**

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| **Week** | **Lecture** | **Topic** | **Intended Learning Outcome** | **Learning Methods\*****/platform** | **Evaluation Methods\*\*** | **Resources** |
| 1 | 1.1 |  Basic elements of anatomy:- Identifying the related body systems to the speech mechanism, briefly | 1.1 | Synchronous lecturing/meeting; **Teams**Asynchronous lecturing/meeting; **Moodle** |  Homework, Quiz | Seikel, John A. (2021) Anatomy and Physiology for Speech, Language, and Hearing  |
| 1.2 |  Defining the anatomical position terms | 1.1 |  Homework, Quiz |
| 1.3 |  makes a workshop to determine the position of the element in the human body, anatomically by using these terms. | 1.1 |  Homework, Quiz |
| 2 | 2.1 |  Anatomy and Physiology of respiration: Boyle’s law | 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 11.1, 11.3, 12.1 | Synchronous lecturing/meeting; **Teams**Asynchronous lecturing/meeting; **Moodle** |  Homework, Quiz | Seikel, John A. (2021) Anatomy and Physiology for Speech, Language, and Hearing  |
| 2.2 |  Structure of respiratory system | 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 11.1, 11.3, 12.1 |  Homework, Quiz |
| 2.3 | Structure of respiratory musculature | 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 11.1, 11.3, 12.1 |  Homework, Quiz |
| 3 | 3.1 |  Anatomy of phonation: The Bernoulli Effect | 1.2, 1.3, 1.4, 1.5, 1.6, 11.1, 11.3, 12.1 | Synchronous lecturing/meeting; **Teams**Asynchronous lecturing/meeting; **Moodle** |  Homework, Quiz | Seikel, John A. (2021) Anatomy and Physiology for Speech, Language, and Hearing  |
| 3.2 |  Structure of the larynx, | 1.2, 1.3, 1.4, 1.5, 1.6, 11.1, 11.3, 12.1 |  Homework, Quiz |
| 3.3 |  Structure of the laryngeal musculature, and  | 1.2, 1.3, 1.4, 1.5, 1.6, 11.1, 11.3, 12.1 |  Homework, Quiz |
| 4 | 4.1 |  Explain the non-speech laryngeal function. | 1.2, 1.3, 1.4, 1.5, 1.6, 11.1, 11.3, 12.1 | Synchronous lecturing/meeting; **Teams**Asynchronous lecturing/meeting; **Moodle** |  Homework, Quiz | Seikel, John A. (2021) Anatomy and Physiology for Speech, Language, and Hearing  |
| 4.2 |  Physiology of phonation: Speech laryngeal functions | 1.2, 1.3, 1.4, 1.5, 1.6, 11.1, 11.3, 12.1 |  Homework, Quiz |
| 4.3 |  Clinical considerations | 1.2, 1.3, 1.4, 1.5, 1.6, 11.1, 11.3, 12.1 |  Homework, Quiz |
| 5 | 5.1 |  Anatomy of articulation and resonation: Bones | 1.2, 1.3, 1.4, 1.5, 1.6, 2.1, 11.1, 11.2, 11.3, 12.1 | Synchronous lecturing/meeting; **Teams**Asynchronous lecturing/meeting; **Moodle** |  Homework, Quiz | Seikel, John A. (2021) Anatomy and Physiology for Speech, Language, and Hearing  |
| 5.2 |  Anatomy of articulation and resonation: Dentition, Speech cavities | 1.2, 1.3, 1.4, 1.5, 1.6, 2.1, 11.1, 11.2, 11.3, 12.1 |  Homework, Quiz |
| 5.3 |  Anatomy of articulation and resonation: Muscles of the face and mouth | 1.2, 1.3, 1.4, 1.5, 1.6, 2.1, 11.1, 11.2, 11.3, 12.1 |  Homework, Quiz |
| 6 | 6.1 |  Physiology of articulation: Articulatory function | 1.2, 1.3, 1.4, 1.5, 1.6, 2.1, 11.1, 11.2, 11.3, 12.1 | Synchronous lecturing/meeting; **Teams**Asynchronous lecturing/meeting; **Moodle** |  Homework, Quiz | Seikel, John A. (2021) Anatomy and Physiology for Speech, Language, and Hearing  |
| 6.2 |  Physiology of resonation: Resonatory function | 1.2, 1.3, 1.4, 1.5, 1.6, 2.1, 11.1, 11.2, 11.3, 12.1 |  Homework, Quiz |
| 6.3 |  Clinical considerations | 1.2, 1.3, 1.4, 1.5, 1.6, 2.1, 11.1, 11.2, 11.3, 12.1 | Homework, Quiz  |
| 7 | 7.1 |  Anatomy of Nervous system: CNS, PNS | 1.2, 1.3, 1.4, 1.5, 1.6, 2.1, 11.1, 11.2, 11.3, 12.1 | Synchronous lecturing/meeting; **Teams**Asynchronous lecturing/meeting; **Moodle** |  Homework, Quiz | Seikel, John A. (2021) Anatomy and Physiology for Speech, Language, and Hearing  |
| 7.2 |  Anatomy of Cranial nerves that related to Speech mechanism | 1.2, 1.3, 1.4, 1.5, 1.6, 2.1, 11.1, 11.2, 11.3, 12.1 |  Homework, Quiz |
| 7.3 |  Physiology of Nervous system  | 1.2, 1.3, 1.4, 1.5, 1.6, 2.1, 11.1, 11.2, 11.3, 12.1 |  Homework, Quiz |
| 8 | 8.1 | Physiology of Cranial nerves that related to Speech mechanism | 1.2, 1.3, 1.4, 1.5, 1.6, 2.1, 11.1, 11.2, 11.3, 12.1 | Synchronous lecturing/meeting; **Teams**Asynchronous lecturing/meeting; **Moodle** |  Homework, Quiz | Seikel, John A. (2021) Anatomy and Physiology for Speech, Language, and Hearing  |
| 8.2 |  Mid-term Exam | 1.2, 1.3, 1.4, 1.5, 1.6, 2.1, 11.1, 11.2, 11.3, 12.1 |  Homework, Quiz |
| 8.3 |   Anatomy of the outer and middle ear | 1.8 |  Mid-term Exam |
| 9 | 9.1 |   Anatomy of the outer and middle ear | 1.8 | Synchronous lecturing/meeting; **Teams** |  Homework, Quiz | Seikel, John A. (2021) Anatomy and Physiology for Speech, Language, and Hearing  |
| 9.2 |   Anatomy of the outer and middle ear | 1.8 |  Homework, Quiz |
| 9.3 |   Anatomy of the outer and middle ear | 1.8 |  Homework, Quiz |
| 10 | 10.1 |  Physiology of the outer and middle ear | 1.8 | Synchronous lecturing/meeting; **Teams** |  Homework, Quiz | Seikel, John A. (2021) Anatomy and Physiology for Speech, Language, and Hearing  |
| 10.2 |  Physiology of the outer and middle ear | 1.8 |  Homework, Quiz |
| 10.3 |  Physiology of the outer and middle ear | 1.8 |  Homework, Quiz |
| 11 | 11.1 |  Anatomy of the inner ear | 1.9 | Synchronous lecturing/meeting; **Teams** |  Homework, Quiz | Seikel, John A. (2021) Anatomy and Physiology for Speech, Language, and Hearing  |
| 11.2 |  Anatomy of the inner ear | 1.9 |  Homework, Quiz |
| 11.3 |  Anatomy of the inner ear | 1.9 |  Homework, Quiz |
| 12 | 12.1 |  Physiology of the inner ear (Traveling wave and transduction) | 1.9 | Synchronous lecturing/meeting; **Teams** |  Homework, Quiz | Seikel, John A. (2021) Anatomy and Physiology for Speech, Language, and Hearing  |
| 12.2 |  Physiology of the inner ear (Traveling wave and transduction) | 1.9 |  Homework, Quiz |
| 12.3 |  Physiology of the inner ear (Traveling wave and transduction) | 1.9 | Homework, Quiz  |
| 13 | 13.1 |  Physiology of the inner ear (Traveling wave and transduction) | 1.9 | Synchronous lecturing/meeting; **Teams** |  Homework, Quiz | Seikel, John A. (2021) Anatomy and Physiology for Speech, Language, and Hearing  |
| 13.2 |  Anatomy and physiology of the auditory nerve and central pathways | 1.10 |  Homework, Quiz |
| 13.3 |  Anatomy and physiology of the auditory nerve and central pathways | 1.10 |  Homework, Quiz |
| 14 | 14.1 |  Anatomy and physiology of the auditory nerve and central pathways | 1.10 | Synchronous lecturing/meeting; **Teams** |  Homework, Quiz | Seikel, John A. (2021) Anatomy and Physiology for Speech, Language, and Hearing  |
| 14.2 |  Anatomy and physiology of the vestibular system | 1.11 |  Homework, Quiz |
| 14.3 |  Anatomy and physiology of the vestibular system | 1.11 |  Homework, Quiz |
| 15 | 15.1 |  Anatomy and physiology of the vestibular system | 1.11 | Synchronous lecturing/meeting; **Teams** |  Homework, Quiz | Seikel, John A. (2021) Anatomy and Physiology for Speech, Language, and Hearing  |
| 15.2 |  Anatomy and physiology of the vestibular system | 1.11 |  Homework, Quiz |
| 15.3 |  Revision  |  |   Homework, Quiz |
|  | 16.1 | Final Exam | Test the students' overall learned skills and knowledge related to Anatomy and Physiology of hearing and speech. |  |  |  |
| 16 | 16.2 | **Juexams.com** | Final exam | Seikel, John A. (2021) Anatomy and Physiology for Speech, Language, and Hearing  |
|  | 16.3 |  |  |  |

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* Teaching methods include: Synchronous lecturing/meeting; Asynchronous lecturing/meeting
* Evaluation methods include: Homework, Quiz, Exam, pre-lab quiz…etc

**23 Evaluation Methods:**

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| Opportunities to demonstrate achievement of the ILOs are provided through the following assessment methods and requirements:

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| --- | --- | --- | --- | --- | --- |
| **Evaluation Activity** | **Mark** | **Topic(s)** | **Intended Learning Outcome** | **Period (Week)** | **Platform** |
| Quizzes and Participation  |  20 |  Announced to the class by the instructor | Test the students' learned knowledge |  Announced to the class by the instructor |  Announced to the class by the instructor |
| Mid-term Exam  |  30 |  Announced to the class by the instructor | Test the students' learned knowledge |  The Eighth week |  Announced to the class by the instructor |
| Final Exam     |  50    |  All topics    | Test the students' overall learned skills and knowledge related to Anatomy and Physiology of hearing and speech. |  The Sixteenth week    |  Announced to the class by the registration |

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**24 Course Requirements**

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| Students should have a computer, internet connection, webcam, and account on a specific software/platform (Moodle and Teams). |

**25 Course Policies:**

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| A- Attendance policies:* Attendance will be taken periodically throughout the semester.
* Students are expected to attend and actively participate in all classes.
* Students are expected to be on time.
* When the student is unable to attend class, it is a courtesy to notify the instructor in advance using either e-mail or phone.
* Repeated tardiness or leaving early will not be accepted.
* Students who miss class (or any portion of class) are responsible for the content. Any student who misses a class has the responsibility for obtaining copies of notes, handouts, assignments, etc. from class members who were present. If additional assistance is still necessary, an appointment should be scheduled with the instructor. Class time is not to be used to go over material with students who missed class(es).
* An absence of more than 15% of all the number of classes, which is equivalent of (7) classes, requires that the student provides an official excuse to the instructor and the dean.
* If the excuse was accepted the student is required to withdraw from the module.
* If the excuse was rejected the student will fail the module and mark of zero will be assigned as suggested by the laws and regulations of the University of Jordan. Please refer to pages 133, 134 of the student handbook.

B- Absences from exams and handing in assignments on time:* The instructor will not do any make-up exams.
* Exceptions for make-up exams and late submission of class assignments will be made on a case-by-case basis for true personal emergencies that are described as accepted by the regulations of UJ (e.g., documented medical, personal, or family emergency).
* Make-up exams will be arranged if justifications for missing the exam satisfy the above. It is the student's responsibility to contact the instructor within 24 hours of the original exam to schedule a make-up session. A make-up exam should be taken within a week from the original exam date, unless the student can provide documentation that makes meeting that deadline impossible; otherwise, the recorded score for that exam for the student will be a zero.
* Late assignments will not be accepted and submission of assignments (due to unjustified absence from class) by other students will not be accepted regardless of how much work the student put into its preparation.

C- Health and safety procedures:* Students will not be in direct contact with patients during this course.
* Students are not expected to use any heavy tools or equipment that might impose health and safety issues during this course.
* Students should work safely, including being able to select appropriate hazard control and risk management, reduction or elimination techniques in a safe manner in accordance with health and safety legislation.
* Students should understand the importance of and be able to maintain confidentiality.
* Students should understand the importance of and be able to obtain informed consent.
* Students should know the limits of their practice and when to seek advice or refer to another professional

D- Honesty policy regarding cheating, plagiarism, misbehavior:* Students are expected to observe all University guidelines pertaining to academic misconduct.
* Any work submitted by a student for academic credit must be the student's own work. Submission of work taken directly from another source (e.g., book, journal, internet, clinic forms, or another student work) will be considered plagiarism and the student/group will get a zero grade for that work if part of an assignment. In addition, if copying occurred, both the student who copied the work and the student who gave material to be copied (if applicable) will receive a zero for the assignment.
* Students are expected to do work required for assignments on their own. Asking other instructors at the JU clinic or the staff, or other students to assist in or do any part of the assignment for them will negatively affect their grade on that assignment. The course instructor is the person the student needs to talk to if s/he has any difficulties pertaining to an assignment or project and is strongly encouraged to schedule an appointment with the instructor if such difficulties arise during the semester.
* Course materials prepared by the instructor, together with the content of all lectures and review sessions presented by the instructor are the property of the instructor. Video and audio recording of lectures and review sessions without the consent of the instructor is prohibited.
* Any forms of academic misconduct will be handled according to the University of Jordan guidelines.

E- Grading policy:Grading for this course will be determined based upon the accumulation of points for variety of assignments and exams. All work will be evaluated on completeness, organization, clarity of information, and the integration and application of the material. F-Available university services that support achievement in the course:The University of Jordan provides many services to support social, health, and mental well-being of students in general and students with disabilities in specific. Students are advised to visit the Faculty of Students Affairs to learn more about those services. If you are a student with a disability for which you may request accommodations, please notify the staff of Services for Student with Disabilities (Faculty of Students Affairs) as soon as possible. Please also contact the instructor as soon as possible (email is acceptable) so the appropriate accommodations for this course can be made. |

**26 References:**

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| A- Required book(s), assigned reading and audio-visuals: Seikel, John A. (2021) Anatomy and Physiology for Speech, Language, and Hearing B- Recommended books, materials and media:Articles, chapters from another books and websites will be provided during the semester. |

**27 Additional information:**

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| Please make sure to check the E- Learning website a day before the lecture, download and print the worksheets or the reading material uploaded, and activate the Microsoft teams account. |

Name of Course Coordinator: Mohammad A. Damhoureyeh Signature: *Mohammad Damhoureyeh* Dr. Faten Obaidat Signature: Faten Obeidat

Date: 14/2/2021

Head of Curriculum Committee/Department: Soha Garadat Signature: Soha Garadat

Head of Department: Soha Garadat Signature: Soha Garadat

Head of Curriculum Committee/Faculty: Professor Ziad Hawamdeh Signature: Z.H-------------------

Dean: Professor Ziad Hawamdeh Signature: --Z.H----------------