

Course name	Physiology and Pathology of Person with Hearing Impairment: Lecture
Course Number	CE21021
Credits	1.0
Year	2
Term, Weekday and Period	Fall AB Tue 1
Instructor	Tsuneo HARASHIMA
Course overview	The course will discuss the physiology of hearing organs in association with hearing impairment together with outline of outer ear, middle ear, inner ear, and the central auditory system. The course will also discuss the basics of acoustics, hearing test, hearing aid fittings and cochlear implant that are necessary to support the auditory learning.
Remarks	
Teaching method	Lecture
Attainment target	Students will understand the physiopathological basic of hearing and hearing impairment. The students will obtain the basic knowledge on the significance of auditory learning and recent auditory compensation technology in the field of education for children with hearing impairment and audiology.
Teaching schedule	Day 1: The development of infants and the significance of auditory learning Day 2: Basics of acoustic psychology for the understanding of hearing impairment Day 3: The structure and function of outer ear and middle ear Day 4: The Structure and function of inner ear Day 5: Central auditory system Day 6: Classifications of hearing impairment and hearing Day 7: The top-down processing in the auditory perception Day 8: Infants audiometry and newborn screening Day 9: Hearing aids and cochlear implant Day 10: Summary
Course conditions	
Evaluation	Evaluation based on examination or report
Homework	
Text Book	
Reference	
Office hours	
Expectation for student	Students are expected to conduct after-class review by using the library, etc.
Keywords	