

Department of Speech and Hearing Therapy

► General Introduction

The goal of the Department of speech and hearing therapy is to prepare students with a comprehensive education in the fundamental principles of communication disorders(eg. speech-language pathology and audiology). Four years of undergraduate education are required to practice as a certified speech-language pathologist or audiologist. And each student should be able to perform as a speech-language pathologist and audiologist in hospital settings, private clinics or research institutes.

1. Aiming at the education for the whole person
2. Developing community spirit with the handicapped
3. Cultivating the professional speech-language pathologist and audiologist
4. Educating in practical situations through systematic theories and the industry-academic cooperation

► Education Objectives

The Department of Speech and Hearing Therapy aims to prepare students to become competent in clinically assessing and treating speech-language disorders and hearing impairments. Its program provides students with a variety of clinical and research opportunities with the vast resources available through the faculty members and rich research facilities in hospital settings.

1. Understanding extensively basic and professional knowledge of speech-language disorders and hearing impairments
2. Acquiring the related academical knowledge or theories and practical treatment services
3. Applying these acquired background knowledge to clinical situations and studies

► Course Descriptions

Category	Seme-ster	Years	Code	Courses	Credit	Hours		Note
						theory	practice	
Basic Courses	1	Freshmen	02582	General Biology	3	3		
			01229	General Chemistry	3	3		
			02257	General Physics	3	3		
			02325	Mathematics	3	3		
Required Courses	1	Freshmen	02617	Introduction to Speech-Language Pathology	3	3		double major
Basic Courses	2	Freshmen	02614	Introduction to Linguistics	3	3		
			02615	Introduction to Audiology	3	3		
Required Courses	1	Sophomore	02618	Phonetics	3	3		
			02619	Language Development	3	3		
			02616	Anatomy and Physiology of Speech	3	3		
Elective Courses	1	Sophomore	02628	Introduction to Special Education	3	3		
			03105	Diagnosis of Speech-Language Disorders	3	3		

Required Courses	2	Sophomore	02622	Language Development Disorders	3	3		double major
			02623	Articulation and Phonological Disorders	3	3		double major
			02620	Phonetic Disorders	3	3		double major
Elective Courses	2	Sophomore	03106	Behavior Modification	3	3		
			03116	Diagnostic Audiology-Basic Evaluation	3	3		
			02624	Anatomy and Physiology of Hearing	3	3		
Required Courses	1	Juniors	02621	Hearing Disorders	3	3		double major
Elective Courses	1	Juniors	02629	Fluency Disorders	3	3		double major
			02630	Neurogenic Language Disorders	3	3		double major
			03107	Hearing Aid Evaluation & Cochlear Implantation	3	3		
			03108	Clinical Observation of Hearing	3		6	
			03109	Clinical Observation in Speech-Language Therapy	3		6	
Elective Courses	2	Juniors	03207	Psychology of Handicapped Children and Parents Counseling	3	3		
			02890	Language Learning Disability	3	3		
			02891	Augmentative and Alternative Communication	3	3		
			02640	Pediatric Audiology	3	3		
			02633	Clinical Practicum I in Audiology	3		6	
			02636	Clinical Practicum I in Speech-Language Therapy	3		6	
Elective Courses	1	Seniors	03208	Swallowing Disorders and Language Disorders in old-age	3	3		
			03104	Auditory Rehabilitation	3	3		
			03110	Clinical Methods of Speech-Language Therapy	3	3		
			03111	Assist Listening Devices	3	3		
			02634	Clinical Practicum II in Audiology	3		6	
			02637	Clinical Practicum II in Speech-Language Therapy	3		6	
Elective Courses	2	Seniors	03112	Motor Speech Disorders	3	3		
			03113	Auditory Proccession Disorders	3	3		
			01457	Research Methodology	3	3		
			03114	Seminar in Communication Disorders	3	3		
			03115	Inclusive Education and Speech-Language Therapy	3	3		
			02645	Language Intervention for the Autism	3	3		

▶ **02582 General Biology**

Study of general concepts in biology including feature of life, the organization of life, energy in living systems, genetics, evolution, the diversity of life, structure and life processes.

▶ **01229 General Chemistry**

Include basic chemistry in the fields of analytical, biochemical, inorganic, organic, and physical chemistry.

▶ **02257 General Physics**

Include special relativity and elementary high energy dynamics, electromagnetic interaction, waves, light, introduction of atomic and modern physics.

▶ **02325 Mathematics**

Education and research in the major areas of mathematics: Algebra, Analysis, Topology, Geometry, and Applied Mathematics.

▶ **02617 Introduction to Speech-Language Pathology**

Study of specialized topics related to speech-language pathology and audiology including linguistics, phonetics, language acquisition, and anatomic physiology. This course includes a basic understanding of acquisition disorders, fluency disorders, neurogenic language disorders, voice disorders, and articulatory disorders.

▶ **02614 Introduction to Linguistics**

Study of the fundamental speech pathology related knowledge to on phonemic and prosodic structures, syllabic and morphemic/word structures, phrases and sentences, and meaning theory.

▶ **02615 Introduction to Audiology**

Study of the science of audiology, hearing assessment and auditory functioning, the nature and prevention of hearing loss, and the measurement of auditory sensitivity and acuity. This course includes practicum in hearing screening and basic audiometric testing.

▶ **02618 Phonetics**

Students in this course will study the fundamental articulatory and acoustic-phonetic characteristics of individual sounds. This course includes experience in transcription skills with the international phonetic alphabet(IPA) and Appropriate experience in auditory discrimination.

▶ **02619 Language Development**

Review and discuss the recent trends in the process of child communicative ability development from the pre-linguistic stage to the school age in terms of semantics, syntax and pragmatics.

▶ **02616 Anatomy and Physiology of Speech**

Study of the anatomy and physiology of the articulatory organs, and related theories of vocalizing and voice production.

▶ **02628 Introduction to Special Education**

Study of the communication characteristics of handicapped children, research special education programs, and explore the relationship between special education and language treatment.

▶ **03105 Diagnosis of Speech-Language Disorders**

Study of various diagnosis/assessment batteries and the battery administration procedures in order to acquire the ability to assess the communication ability of communication disorders.

▶ **02622 Language Development Disorders**

Review the influence of developmental environment, mental retardation, Autism Spectrum Disorders, learning disorders on the child language development. And this course introduces the language assessment and intervention methods of these types of child language disorders.

▶ **02623 Articulation and Phonological Disorders**

An advanced study of articulation and phonology development. This course includes principles of discuss the assessment and treatment methods.

▶ **02620 Phonetic Disorders**

Study of the fundamentals of vocalization and neurology relating to voice disorders, examine the characteristic of each voice disorder caused by functional, temperamental, and neural factors. This course includes diagnose and treatment voice disorders.

▶ **03106 Behavior Modification**

Study of the principles and methods in order to improve analyses and the basic knowledge of all strategies needed to modify inappropriate behavior of communication disorder children.

▶ **03116 Diagnostic Audiology-Basic Evaluation**

Study of the principles and evaluation methods for special hearing disorders that cannot be discovered using basic hearing evaluations. And this course includes the record and interpretation methods in detail.

▶ **02624 Anatomy and Physiology of Hearing**

Study of the anatomical and physical structures of auditory organs based on related audiological theories.

▶ **02621 Hearing Disorders**

Study of the characteristics for physiological reasons and symptoms of infants, toddlers and adults with hearing disorders. This course includes history of hearing impaired education, hearing loss levels, and evaluation methods of subjective and objective auditory test and reading these results and study of language characteristics and intervention methods on hearing impaired children and adults.

▶ **02629 Fluency Disorders**

Study of various theories, research findings, rationales and methodologies for evaluation and treatment of stuttering in children and adults.

▶ **02630 Neurogenic Language Disorders**

Study of communicative disorders caused by cerebrovascular or traumatic accidents, focusing on aphasia. Learns the neurological fundamentals related to each type of aphasia, examine their communicative characteristics, and learns the methods to diagnose and treat their language and communication abilities.

▶ **03107 Hearing Aids Evaluation & Cochlear Implantation**

Study of the structure and characteristics of various hearing aids to the process of prescribing appropriate hearing aids according to different hearing loss situations. They also learn the principles and methods for performance and suitability tests of hearing aids.

▶ **03108 Clinical Observation of Hearing**

Observe people with hearing impairments directly or indirectly via video or audio, and learn the communicative characteristics of each person. This course also examines the specialized knowledge relating to the diagnosis and treatment of those people, and discuss the roles of audiologists in this process.

▶ **03109 Clinical Observation in Speech-Language Therapy**

Observe people with communication disorders directly or indirectly via video or audio, and learn the communicative characteristics of each person. This course also examines the specialized knowledge relating to the diagnosis and treatment of those people, and discuss the roles of language treatment specialists and language pathologists in this process.

▶ **03207 Psychology of Handicapped Children and Parents Counseling**

Analysis and understand psychology of the handicapped children and their parents. Students will learn to treat the counseling skills and theory for the parents in language interaction for the children.

▶ **02890 Language Learning Disability**

Introduce speech and language disorders occurring in language learning. Students in this course will learn and discuss proper models of diagnosis and treatment for those children.

▶ **02891 Augmentative and Alternative Communication**

Examine augmentative and alternative communicative methods for people with communicative disorders that related to speech. This course studies the AAC system, symbols, and fixation of vocabulary selection.

▶ **02640 Pediatric Audiology**

With summary of the developmental process of auditory organs from birth, this course introduce the key points of early detection and rehabilitation of hearing loss. It also covers the impact of hearing loss on growth and rehabilitation methods appropriate to age and development.

▶ **02633 Clinical Practicum I in Audiology**

Under the supervision of an advisor or audiologist, students will practice the basic theories of auditory examination. Using equipment, they will acquire techniques for evaluating the basic level of hearing loss and its causes, and observe audiological therapy.

▶ **02636 Clinical Practicum I in Speech-Language Therapy**

By actually treating people with communicative disorders, under the supervision of an advisor and speech-language pathologist, students will learn how to treat communicative disorders and present a corresponding treatment report.

▶ **03208 Swallowing Disorders and Language Disorders in old-age**

Review the physiological and neurological diseases and symptoms for the older and study of characteristic and

language intervention for stroke, senile dementia and swallowing disorder. This course introduces the basic psychological problems for the older and the tendency of the current assessment/treatment methods.

▶ **03104 Auditory Rehabilitation**

Study the characteristics of various hearing disorders and auditory rehabilitation methods.

▶ **03110 Clinical Methods of Speech-Language Therapy**

Learn the attitude for scientific researches communicative disorders, by learning methods, focusing on the persons with speech, child language, voice, fluency, and neurological language disorders.

▶ **03111 Assist Listening Devices**

With understanding of the theoretical background of the basic systems that control special hearing, students will study the principles of mapping and programming for language processing. They study quantitative analysis methods for language processing effects according to various signal-dealing methods.

▶ **02634 Clinical Practicum II in Audiology**

Under the supervision of an advisor or audiologists, students practice the basic theories of auditory examination towards use of a hearing aid. Using equipment, they acquire techniques for evaluating the basic level of hearing loss and its causes. Students learn how to choose an appropriate hearing aid.

▶ **02637 Clinical Practicum II in Speech-Language Therapy**

By actually treating people with communicative disorders, under the supervision of an advisor and language clinician, students learn how to treat communicative disorders and present a corresponding treatment report.

▶ **03112 Motor Speech Disorders**

Review the neurological substrate on the motor speech disorders caused by dysfunction or injury of central nervous system. Introduce the assessment/treatment methods based on the characteristics of each disorder types.

▶ **03113 Auditory Processing Disorders**

Learn the principles of auditory processing disorders by physiological abnormalities. They will also study auditory evaluation methods.

▶ **01457 Research Methodology**

Discuss various experimental designs and methods on child and adult with communication disorders. And perform one's research bases on actual research data.

▶ **03114 Seminar in Communication Disorders**

Evaluation of the theoretical and experimental research literature in communication disorder on various topics.

▶ **03115 Inclusive Education and Speech-Language Therapy**

Study of the inclusive education, cooperation professors' role and effective speech-language therapy.

► **02645 Language Intervention for the Autism**

By observing causes and concrete types of Autism Spectrum Disorder(ASD) and inquiring types of autistic children transformed language development and their gestures, this course acquires the basic knowledge of remedies for these symptoms.