

Table 1. Overview of “Traditional” 2-year M.A. Curriculum in Audiology at IU.

First Year - at IU-Bloomington

	<u>Credits</u>
S474 Introduction to Audiological Testing	3
S519 Mathematical Foundations for SPHS	3
S571 Auditory Anatomy and Physiology	3
S678 Introduction to Psychoacoustics	<u>3</u>
Total	12

Spring

S475 Advanced Audiological Testing	3
S570 Practicum in Audiology	3
S572 Clinical Electrophysiology in Audiology	2
S573 Laboratory in Amplification	1
S576 Amplification for the Hearing Impaired	<u>3</u>
Total	12

Summer-I (6 weeks)

S515 Seminar -- Reading Research in Audiology	2
S515 Introduction to ASL for Graduate SPHS	2
Total	4

Summer-II (8 weeks)

S515 Seminar -- Clinical Vestibular Assessment	1
S577 Industrial Audiology	2
S680 Independent Study -- Readings for Minor	3
S563 Externship in Speech-Language-Hearing Services	2
OR	
S570 Practicum in Audiology	<u>2</u>
Total	8

Second Year at IUPUI Indianapolis

Fall

S477 Auditory Disorders	3
S515 Seminar--Rehabilitative Technology for the HI	2
S515 Seminar--Advanced Concepts in Amplification	2
S563 Externship in Speech-Language-Hearing Services (Part-time commuting externship)	1
S579 Children with Hearing Loss	<u>3</u>
Total	11

Spring

S563 Externship in Speech-Language-Hearing Services (Full-time externship)	<u>6</u>
Total	6

Table 2. Distribution of Audiology Courses in Enhanced IU Bachelor's/Master's Model

	<u>Credits</u>
<i>Freshman Year</i>	
S110 Survey of Communication Disorders OR	3
E105 TOPICS: Clinical Controversies in Audiology	
<i>Sophomore Year</i>	
S275 Human Hearing and Communication	4
<i>Junior Year</i>	
S302 Acoustics	4
S319 Mathematical Foundations for SPHS	3
S371 Auditory Anatomy and Physiology	3
<i>Senior Year</i>	
<u>Fall</u>	
S378 Introduction to Psychoacoustics	3
S474 Introduction to Audiological Testing	3
<u>Spring</u>	
S370 Practicum in Audiology	3
S373 Laboratory in Amplification	1
S376 Amplification for the Hearing Impaired	3
S475 Advanced Audiological Testing	3
S478 Teaching the Hearing Handicapped	3
Total Undergraduate Credit Hours in Audiology	36
<i>Master's Program</i>	
<u>Summer-I (6 weeks)</u>	
S515 Seminar -- Reading Research in Audiology	2
S515 Counseling in Communication Disorders	2
<u>Summer-II (8 weeks)</u>	
S515 Seminar -- Clinical Vestibular Assessment	1
S577 Industrial Audiology	2
S570 Practicum in Audiology	2
<u>Fall</u>	
S477 Auditory Disorders	3
S515 Seminar--Rehabilitative Technology for the HI	2
S515 Seminar--Advanced Concepts in Amplification	2
S570 Practicum in Audiology	1
S579 Children with Hearing Loss	3
<u>Spring</u>	
S563 Externship in Speech-Language-Hearing Services (Part-time commuting externship)	1
S572 Advanced Clinical Electrophysiology	2
S578 Instrumentation and Calibration	3
S674 Advanced Seminar in Audiology (Ph.D seminar)	3
ELECTIVE	3
<u>Summer</u>	
S563 Externship in Speech-Language-Hearing Services (Full-time externship)	6
Total Graduate Credit Hours in Audiology	35-38

Table 3. Mapping of courses in the enhanced IU Bachelor's/Master's audiology program for a "typical" student against the knowledge and clinical competencies defined in Standard IV of the new ASHA CCC-A standards.

STANDARD IV-A: PREREQUISITE KNOWLEDGE AND SKILLS	
<i>STANDARD</i>	<i>I.U. COURSES</i>
A1. Skills in oral and written or other forms of communication	ENGLISH W131, Elementary Composition (3 cr hrs.)
	ENGLISH L202, Literary Interpretation (3)
	COMMUNICATION & CULTURE S121, Public Speaking (3)
A2. Skills and knowledge associated with life sciences, physical sciences, behavioral sciences and mathematics (beyond college algebra)	MATHEMATICS M118, Finite Mathematics (3)
	MATHEMATICS M119, Brief Survey of Calculus (3)
	COMPUTER SCIENCE A201, Intro to Programming I (4)
	COMPUTER SCIENCE A202, Intro to Programming II (4)
	PHYSICS 105, Basic Physics of Sound (3)
	PHYSICS 106, Introductory Acoustics Laboratory (1)
	PHYSICS 201, General Physics I (5)
	PHYSICS 202, General Physics II (5)
	BIOLOGY A215, Basic Human Anatomy (5)
	BIOLOGY P215, Basic Human Physiology (5)
	PSYCHOLOGY P101, Introductory Psychology I (3)
	PSYCHOLOGY P102, Introductory Psychology II (3)
	PSYCHOLOGY P211, Methods of Experimental Psychol (3)
	PSYCHOLOGY K300, Statistical Techniques (3)
	PSYCHOLOGY P316, Psychology of Childhood & Adol (3)
	PSYCHOLOGY P326, Behavioral Neuroscience (3)
	PSYCHOLOGY P329, Sensation and Perception (3)

STANDARD IV-B: FOUNDATIONS OF PRACTICE	
STANDARD	I.U. COURSES
B1. Code of ethics & credentialing	S110, S275, S370/S570
B2. Patient characteristics & clinical services	S110, S275, S370/S570
B3. Educational, vocational, social and psychological effects of HI, impact on Tx	S110, S275, S478
B4. Anatomy/physiology, pathophysiology, embryology of auditory & vestibular systems	S110, S275, S474, S371/S571, S572, S515v
B5. Normal development of speech and language	S333, S420
B6. Phonologic, morphologic, syntactic and pragmatic aspects of communication in HI	S478, S515rt, S579
B7. Normal processes of speech and language production and perception over the life span	S111, S201, S302, S307, S333
B8. Normal aspects of auditory physiology and behavior over the life span	S371/S571, S378/S678
B9. Principles, methods, and applications of psychoacoustics	S378/S678
B10. Effects of chemical agents on the auditory and vestibular systems	S477, S515v
B11. Electronics and bioelectrical hazards	S319, S572, S578
B12. Infectious/contagious diseases and universal precautions	S275, S474, S370/S570
B13. Physical characteristics and measurement of acoustic stimuli.	S275, S302, S319, S474, S578
B14. Physical characteristics and measurement of electric & nonacoustic stimuli	S371/S571, S515rt
B15. Principles and practices of research, including experimental design, statistics and applications to clinical populations	S311, S515rr
B16. Medical/surgical procedures for treatment of auditory and vestibular disorders	S275, S474, S477
B17. Health care and educational delivery systems	S275, S474, S570
B18. Ramifications of cultural diversity on professional practice	S570
B19. Supervisory processes and procedures	S510, S570
B20. Laws, regulations, policies and management practices relevant to the profession of audiology.	S570, S577
B21. Manual communication, use of interpreters, and assistive technology.	A100, S515aca

STANDARD IV-C: PREVENTION AND IDENTIFICATION		
<i>STANDARD</i>	<i>I.U. COURSES</i>	<i>PRACTICUM</i>
C1. Interact effectively with patients, families, others and professionals	S515c, S570	Yes
C2. Prevent onset, minimize development, of communication disorders	S275, S474, S477, S577	Yes
C3. Identify individual at risk for HI	S474, S579	Yes
C4. Screen individuals for HI and disability/handicap using appropriate tests	S275, S474, S579	Yes
C5. Screen individuals for speech and language impairments, and other factors affecting communication, appropriately	S420, S436, S478	Yes
C6. Administer conservation programs designed to reduce effects of noise and of other agents toxic to auditory and vestibular systems	S477, S577	Yes

STANDARD IV-D: EVALUATION		
<i>STANDARD</i>	<i>I.U. COURSES</i>	<i>PRACTICUM</i>
D1. Interact effectively with patients, families, others and professionals	S515c, S570	Yes
D2. Evaluate information from appropriate sources to facilitate assessment planning	S275, S474, S475, S570, S579	Yes
D3. Obtain case history	S474, S570, S579	Yes
D4. Perform an otoscopic examination	S474, S570	Yes
D5. Determine the need for cerumen removal	S474, S570, S376/S576	Yes
D6. Administer clinically appropriate & culturally sensitive assessment measures	S474, S475, S572, S579	Yes
D7. Perform audiological assessment using physiologic, psychophysical and self-assessment measures	S474, S475, S572, S579	Yes
D8. Perform electrodiagnostic test procedures	S475, S572, S579	Yes
D9. Perform balance system assessment and determine need for balance rehabilitation	S475, S515v	Sometimes
D10. Perform aural rehabilitation assessment	S478, S515rt, S576	Yes
D11. Document evaluation procedures and results	S275, S474, S475, S572, S579, S515v	Yes
D12. Interpret results of the evaluation to establish type and severity of disorder	S275, S474, S475, S477, S572, S579, S515v	Yes
D13. Generate recommendations and referrals from the evaluation process	S275, S474, S475, S477, S572, S579, S515v	Yes
D14. Provide counseling to facilitate understanding of the auditory or balance disorder	S275, S474, S475, S477, S572, S579, S515v, S515c	Yes
D15. Maintain records in a manner consistent with legal/professional standards	S275, S474, S475, S477, S572, S577, S579, S515v	Yes
D16. Communicate results and recommendations orally and in writing to the patient and other appropriate individual(s)	S275, S474, S475, S477, S572, S577, S579, S515v	Yes
D17. Use instrumentation according to manufacturer's specifications & recommendations	S275, S474, S475, S572, S577, S578, S579, S515v	Yes
D18. Determine whether instrumentation is in calibration according to accepted standards	S474, S572, S578	Yes (or laboratory exercises)

STANDARD IV-E: TREATMENT		
<i>STANDARD</i>	<i>I.U. COURSES</i>	<i>PRACTICUM</i>
E1. Interact effectively with patients, families, others and professionals	S275, S477, S478, S515c, S515rt, S376/S576, S579	Yes
E2. Develop and implement treatment plan	S275, S477, S478, S515rt, S515aca, S376/S576, S579	Yes
E3. Discuss prognosis and treatment options with appropriate individuals	S275, S477, S478, S515rt, S515aca, S370/S570, S376/S576, S579	Yes
E4. Counsel patients, families and others.	S275, S477, S478, S515rt, S515aca, S515c, S579	Yes
E5. Develop culturally sensitive and age-appropriate management strategies	S275, S477, S478, S515rt, S515aca, S370/S570, S376/S576, S579	Yes
E6. Collaborate with other service providers in case coordination	S275, S477, S478, S515rt, S515aca, S370/S570, S376/S576, S579	Yes
E7. Perform hearing aid, assistive listening device and sensory aid assessment	S275, S515rt, S515aca, S370/S570, S376/S576, S579	Yes
E8. Recommend, dispense and service prosthetic and assistive devices	S275, S515aca, S370/S570, S376/S576, S579	Yes
E9. Provide hearing aid, assistive listening device and sensory aid orientation	S275, S515rt, S515aca, S370/S570, S376/S576, S579	Yes
E10. Conduct aural rehabilitation	S478, S515rt, S579	Yes
E11. Monitor and summarize treatment progress and outcomes	S275, S515rt, S515aca, S370/S570, S376/S576, S579	Yes
E12. Assess efficacy of interventions for auditory and balance disorders	S275, S515rt, S515aca, S515v, S370/S570, S376/S576, S579	Yes
E13. Establish treatment admission and discharge criteria	S275, S515rt, S515aca, S515v, S370/S570, S376/S576, S579	Yes
E14. Serve as an advocate for patients, families, and other individuals.	S275, S478, S515rt, S515aca, S370/S570, S376/S576, S579	Yes
E15. Document treatment procedures and results.	S275, S478, S515rt, S515aca, S370/S570, S376/S576, S579	Yes
E16. Maintain records in a manner consistent with legal/professional standards	S275, S515rt, S515aca, S370/S570, S376/S576, S577, S579	Yes
E17. Communicate results, recommendations and progress	S275, S515rt, S515aca, S370/S570, S376/S576, S579	Yes

STANDARD IV-E: TREATMENT		
E18. Use instrumentation according to manufacturer's specifications and recommendations	S275, S515rt, S515aca, S370/S570, S376/S576, S579	Yes
E21. Determine whether instrumentation is calibrated according to appropriate standards	S578, S376/S576, S515rt, S515aca	Yes (and/or laboratory exercises)

Table 4. Comparison of academic and practicum credit hours required for the enhanced IU Bachelor's/Master's model and four existing Au.D. models.

Program	Model	Practicum Credit Hours	Academic Credit Hours	Curriculum Differences re: IU
Indiana University	BS/MA	7-13	64-67	
University of Louisville (UL)	AuD	38	64	<i>more</i> credit hours at UL in medical audiology, embryology, geriatrics and practice management; <i>less</i> at UL in psychoacoustics, instrumentation, counseling and ASL
Central Michigan University (CMU)	AuD	16-43	66	<i>more</i> credit hours at CMU in vestibular area, advanced electrophysiology and speech audiometry; <i>less</i> at CMU in instrumentation and signal analysis
Ball State University (BSU)	AuD	52	54	<i>more</i> credit hours at BSU in vestibular area, hearing aids and “advanced audiology”; <i>less</i> at BSU in counseling, instrumentation and ASL
University of Florida (UF)	AuD	47	78*	could not determine

*The 78 credit hours for the University of Florida includes “basic sciences” and it is unclear how many of these credit hours are specifically in audiology or hearing science, as is the case for the figures in this column for the other programs.