

Table 2.6.c.9 MS Biostatistics Competencies and Learning Experiences

Biostatistics MS Competencies	Learning Experiences						
	PHC 6063	PHC 6050C	PHC 6051	PHC 6001	STA 6326	STA 6327	CE
Consult and collaborate effectively with investigators in the health sciences	P	R	R	R			R
Use appropriate statistical methodology to address research questions in the health sciences	P	P	P	P	P	P	R
Apply state-of-the-art statistical software to conduct statistical analyses	R	P	P		R	R	R
Interpret biostatistical analyses while remaining aware of the limitations	P	P	P	R	P	P	R
Independently learn and critique statistical methodology	P	R	R		R	R	P
Deliver effective statistical presentations	P	R	R				P

Courses:

PHC 6063 Biostatistical Consulting

PHC 6050C Biostatistical Methods I

PHC 6051 Biostatistical Methods II

PHC 6001 Principles of Epidemiology

STA 6326 Introduction to Theoretical Statistics I

STA 6327 Introduction to Theoretical Statistics II

CE: Culminating Experience (written report and oral presentation to MS committee)

Table 2.6.c.10 MS Epidemiology Competencies and Learning Experiences

Epidemiology MS Competencies	Learning Experiences										
	PHC 6001	PHC 6000	PHC 6011	PHC 6003*	PHC 6052	PHC 6053	PHC 7065	GMS 6894	PHC 7902	PHC 7427	PHC 6711
Apply surveillance, assessment, evaluation, and other foundational epidemiological research designs to all areas of interest	P	R	R	R	R	R	R	R	R	R	R
Choose appropriate measurement and analytic methods to study health and disease in a population			P	R	R	R	R	R	R		R
Utilize biological, behavioral and social theory to understand how to prevent and intervene to promote the public health	P	R	R	R			R	R	R		R

*Students choose 2 of these courses

Courses:

PHC 6001	Principles of Epidemiology
PHC 6000	Epidemiology Research Methods I
PHC 6011	Epidemiology Research Methods II
PHC 6003 OR*	Epidemiology of Chronic Diseases and Disability
PHC 6517 OR	Public Health Concepts in Infectious Disease
PHC 6016 OR	Social Epidemiology
PHC 6194 OR	Spatial Epidemiology
PHC 7038 OR	Psychiatric Epidemiology
PHC 6711 OR	Measurement in Epidemiology & Outcomes Research
PHC 6937	Cancer Epidemiology
PHC 6052	Introduction to Biostatistical Methods
PHC 6053	Regression Methods
PHC 7065	Critical Skills in Epidemiology Data Management
GMS 6894	Epidemiology Journal Club (Fall)
PHC 7902	Epidemiology Literature Review and Critique (Writing Circle)
PHC 7427	Ethics in Population Science
PHC 6711	Masters of Science Thesis

Table 2.6.c.11 Biostatistics PhD Competencies and Learning Experiences

Biostatistics PhD Competencies	Learning Experiences						
	PHC 6063	PHC 7066	STA 7346	STA 7249	STA 6246	PHC 7979/7980	OLE
Engage in successful collaborations with investigators in the health sciences	P	R	R	R	R	P	P
Conduct independent research in the development of new biostatistical methodology		R	R	R	R	P	R
Apply state-of-the art biostatistical methodology to address research questions in the health sciences	P	R	R	R	R	P	R
Interpret biostatistical analyses while remaining aware of limitations	P	P	P	P	P	P	R
Write statistical methodology papers for peer-reviewed statistical and biostatistical journals		R	R	R	R	P	P
Collaborate on papers for peer-reviewed subject-matter journals in the health sciences	R					P	P

Courses:

PHC 6063 Biostatistical Consulting

PHC 7066 Large Sample Theory

STA 7346 Statistical Inference

STA 7249 Generalized Linear Models

STA 6246 Theory of Linear Models

PHC 7979 Advanced Research

PHC 7980 Dissertation Research

OLE: Other learning experience (written and oral dissertation proposal and written and oral dissertation defense)

Table 2.6.c.12 Epidemiology PhD Competencies and Learning Experiences

Epidemiology PhD Competencies	Learning Experiences																		
	PHC 6001	PHC 6052	PHC 6053	PHC 6517	PHC 6003	PHC 6000	PHC 6011	PHC 7727	PHC 7934	PHC 7000	PHC 7901	PHC 7902	PHC 7427	PHC 6711	PHC 6937	PHC 7979	PHC 7980	PHC 6937	
Apply epidemiological methods to address critical and/or emerging public health and clinical research issues through the use of appropriate epidemiological research designs	P			R	R	P		R	R	R	R	R				R	R		
Apply epidemiological methods to address critical and/or emerging public health and clinical research issues through the use of advanced statistical analysis methods for health studies		P	R				R		R							R	R		
Apply epidemiological methods to address critical and/or emerging public health and clinical research issues through the use of data structures and measurement methods for health research	R	R	R		R	R	P		R	R	R			P		R	R		
Apply epidemiological methods to address critical and/or emerging public health and clinical research issues through the use of biological, behavioral and social theory applied to the understanding and prevention of contemporary threats to health and well-being	R			P	P											R	R	R	
Apply epidemiological methods to address critical and/or emerging public health and clinical research issues through the use of depth of knowledge in an area of specialization	R			R	R					R		R				P	P		
Assimilate the history, philosophy, and ethical principles of epidemiology into current research	R						R				R		P			R	R	R	

Epidemiology PhD Competencies	Learning Experiences																	
	PHC 6001	PHC 6052	PHC 6053	PHC 6517	PHC 6003	PHC 6000	PHC 6011	PHC 7727	PHC 7934	PHC 7000	PHC 7901	PHC 7902	PHC 7427	PHC 6711	PHC 6937	PHC 7979	PHC 7980	PHC 6937
Develop grant proposals and manage research projects								P								R	R	
Write scientific papers for publication in high-impact peer-reviewed journals and communicate research results to scientists, policy makers, and the public				R		R	R	R	R	R	R	P				R	R	
Compete successfully for research and teaching positions in academic institutions, and federal or state agencies															P	P	P	

Courses:

PHC 6001 Principles of Epidemiology
 PHC 6052 Statistical Methods in Research I
 PHC 6053 Regression Methods for Health and Life Sciences
 PHC 6517 Public Health Concepts in Infectious Diseases
 PHC 6003 Epidemiology of Chronic Diseases and Disability
 PHC 6000 Epidemiology Research Methods I
 PHC 6011 Epidemiology Research Methods II
 PHC 7727 Grant Writing Skills in Epidemiology and Clinical Research
 PHC 7934 Epidemiology Seminar I
 PHC 7000 Epidemiology Seminar II
 PHC 7901 Epidemiology Journal Club
 PHC 7902 Epidemiology Literature Review and Critique (Writing Circle)
 PHC 7427 Ethics in Population Science
 PHC 6711 Measurement in Epidemiology & Outcomes Research
 PHC 6937 Supervised Teaching in Epidemiology
 PHC 7979 Advanced Research
 PHC 7980 Doctoral Research
 PHC 6937 Introduction to Public Health

Table 2.6.c.13 Health Services Research PhD Competencies and Learning Experiences

Health Services Research PhD Competencies	Learning Experiences																			
	HSA7936	HSA7106	HSA7759	HSA7116	HSA7414	HSA7157	HSA7437	HSA7707	HSA7708	PHC6716	HSA6114	HSA6126	HSA6115	HSA6152	HSA6436	PHC6052	PHC6053	PHC6001	HSA7938	HSA7980
Know how to apply alternative theoretical and conceptual models from a range of relevant disciplines to HSR.	P	P	P	P	P	P	P	R	R	R	R	R	R	R	R				R	R
Apply in-depth disciplinary knowledge and skills relevant to health services research	P	P	P	P	P	P	P	P	P	P	R	R	R	R	R				R	R
Use knowledge of the structures, performance, quality, policy and environmental context of health and health care to formulate solutions for health policy problems	P	P	P	P	P	P	P	R	R										R	R
Pose innovative and important research questions, informed by systematic reviews of the literature, stakeholder needs, and relevant theoretical and conceptual models	P	P	P	P	P	P	P	P											R	R
Select appropriate interventional (experimental and quasi-experimental) or observational (qualitative, quantitative, or mixed methods) study designs to address specific health services research questions				P		P		P	R									P	R	R
Know how to collect primary health and health care data obtained by survey, qualitative, or mixed methods										P									R	R
Know how to assemble secondary data from existing public and private sources									P										R	R
Use a conceptual model to specify study constructs for a health services research and develop variables that reliably and validly measure these constructs	P	P	P	P	P	P	P											P	R	R
Implement research protocols with standardized procedures that ensure reproducibility of the science								P										P	R	R
Ensure the ethical and responsible conduct of								P		P									R	R

Health Services Research PhD Competencies	Learning Experiences																			
	HSA7936	HSA7106	HSA7759	HSA7116	HSA7414	HSA7157	HSA7437	HSA7707	HSA7708	PHC6716	HSA6114	HSA6126	HSA6115	HSA6152	HSA6436	PHC6052	PHC6053	PHC6001	HSA7938	HSA7980
research in the design, implementation, and dissemination of health services research																				
Work collaboratively in multidisciplinary teams	P							P												
Use appropriate analytical methods to clarify associations between variables and to delineate causal inferences									P							P	P	P	R	R
Effectively communicate the findings and implications of health services research through multiple modalities to technical and lay audiences	P		P					P											R	R
Understand the importance of collaborating with policymakers, organizations, and communities to plan, conduct, and translate health services research into policy and practice			P			P		P											R	R

Courses:

HSA7936	Costs and Financing of Health Services	HSA6114	US Health Care System
HSA7106	Health Services Access and Utilization	HSA6126	Health Insurance Systems
HSA7759	Quality and Outcomes in Health Services Research	HSA6115	Introduction to Management of Health Services Organizations
HSA7116	Health Services Organization Research	HSA6152	Introduction to US Health Policy
HSA7414	Sociology of Health and Medicine	HSA6436	Health Economics
HSA7157	Research Foundations of Health Policy	PHC6052	Statistical Methods for Health Research I
HSA7437	Advanced Health Economics	PHC6053	Regression Methods for Health and Life Sciences
HSA7707	Health Services Research I	PHC6001	Principles of Epidemiology
HSA7708	Health Services Research II	HSA7938	Advanced Seminar in Health Services Research
PHC6716	Survey Research Methods	HSA7980	Dissertation Research

Table 2.6.c.14 Clinical and Health Psychology (CHP) PhD Competencies and Learning Experiences

Clinical and Health Psychology PhD Competencies	Learning Experiences									
	CLP 6527/ 6528	CLP 6943	CLP 6945/ 6946/6948	CLP 6947	CLP 7934	CLP 6971/ 7979/7980	CLP 6476/ 6430/6407	PHC 6001	PHC 6937	CLP 7949
Demonstrate ability to analyze critically existing psychological research literature	P				R	P	R	R	R	R
Demonstrate ability to design research projects, analyze data and communicate results	P				R	P				
Apply and disseminate evidence-based practice in clinical settings	R	P	P	P	R		R	R	R	P
Demonstrate clinical training, skills, and experiences sufficient to obtain licensure		P	P	P	P		P	R	R	P
Demonstrate sufficient knowledge and skill to practice with diverse patient populations		P	P	P	R		P	R	R	P
Deliver professional services ethically with high professional standards		P	P	P	R		R			P
Integrate community and individual perspectives in health care					R		R	P	P	R

Courses:

CLP 6527/6528 Research Methods, Design, and Statistical Analysis I and II (2 semester sequence)

CLP 6943 Core Practicum in Clinical Psychology (3- 4 semester sequence)

CLP 6945/6946/6948 Advanced Practicum in Neuropsychology/Health Psychology/Child and Pediatric Psychology

CLP 6947 Practicum in Intervention (2-5 semesters)

CLP 7934 Special Topics Courses (Professional Issues and Ethics, Neuropsychology of Aging, Cognitive Basis of Behavior, Behavioral Health and Illness, Behavioral Treatment, Parent Child Interaction Therapy, Advanced Psychotherapy, Pediatric Psychology, Rehabilitation Psychology, Advanced Writing Seminar, Psychotherapy with Older Adults, Child and Family Treatment, Health Promotion, Other Courses as Offered)

CLP 6971/7979/7980 Masters Research, Advanced Research, Doctoral Research

CLP 6476/6430/6407 Lifespan Psychopathology, Lifespan Assessment, Lifespan Introduction to Treatment

PHC 6001 Principles of Epidemiology

PHC 6937 Introduction to Public Health

CLP 7949 Internship in Clinical Psychology (3 semester sequence)

Table 2.6.c.15 Public Health PhD Environmental Health Concentration Competencies and Learning Experiences

Public Health PhD Competencies – EGH Concentration	Learning Experiences																
	MPH Core courses	PHC 6053	PHC 6000	VME 6602	PHC 6702	PHC 6937	VME 6607	PHC 6762	PHC 6764	PHC 6722	PHC 6937/6900	PHC 6937	PHC 6162	PHC 7935	PHC 6937	PHC 7979	PHC 7980
Explain the contributions of the different core areas to public health research and practice	P																
Apply public health principles learned in core courses to a focused area of study			R	P	P	R	P	P	R		R			R		P	P
Demonstrate an in-depth understanding of public health issues/problem solving approaches in a core public health concentration and specialization				P	P	P	P	P	P		R			R	P	P	P
Demonstrate competency in quality assurance/quality control methods			R		P		P			R	R			R		P	P
Demonstrate understanding of methodological issues applied to public health problems		P	P		P		P		R					R		R	R
Demonstrate appropriate research design and use of methods		P	P		P		R		R		R		R	R		P	P
Demonstrate skills necessary to assess the soundness of assessment and intervention tools used to measure public health concerns					R	R			R					P			
Apply basic univariate statistics to a dataset (e.g., mean, median, standard deviation, skew) using statistical software such as SAS		P	P						R							R	R

Public Health PhD Competencies – EGH Concentration	Learning Experiences																
	MPH Core courses	PHC 6053	PHC 6000	VME 6602	PHC 6702	PHC 6937	VME 6607	PHC 6762	PHC 6764	PHC 6722	PHC 6937/6900	PHC 6937	PHC 6162	PHC 7935	PHC 6937	PHC 7979	PHC 7980
Apply basic multivariate statistics to a dataset (e.g., multiple regression, logistic regression; hierarchical regression) using statistical software such as SPSS		P	R				R		R								
Describe ethical challenges in conducting public health research and possible solution												P	R	R			
Develop a full draft of a grant proposal													P				
Critically evaluate public health research literature				R	R		R		R		P		R	P	R	R	R
Develop concentration-specific expertise to successfully conduct research and teach in that area															P	R	P
Demonstrate the ability to perform key research tasks (e.g., literature search; literature review; database development; data collection; data analysis; dissemination of findings)									R					R		P	P
Participate productively as a member of a research team									P							P	P
Independently craft a research question suitable for a doctoral dissertation																P	P
Independently develop a research procedure suitable for a doctoral dissertation																	P

Public Health PhD Competencies – EGH Concentration	Learning Experiences																
	MPH Core courses	PHC 6053	PHC 6000	VME 6602	PHC 6702	PHC 6937	VME 6607	PHC 6762	PHC 6764	PHC 6722	PHC 6937/6900	PHC 6937	PHC 6162	PHC 7935	PHC 6937	PHC 7979	PHC 7980
Independently carry out a dissertation research project																	P
Independently analyze dissertation data																	P
Independently communicate, verbally and in writing, the results of the doctoral dissertation																	P
Develop a syllabus and evaluation plan for a public health course															P		
Effectively deliver course material, organize and lead group learning activities/discussions									R				P		P		
Appropriately interact with students									R				R		P		
Provide and receive constructive feedback concerning teaching skills													P				

Courses:

PHC 6053 Regression Methods for Health Sciences
 PHC 6000 Epidemiology Research Methods I
 VME 6602 General Toxicology
 PHC 6702 Exposure Measurement and Assessment
 PHC 6937 Health Risk and Crisis Communication
 VME 6607 Human Health Risk Assessment
 PHC 6762 International Public Health
 PHC 6764 Global Health and Development I
 PHC 6722 Research Methods Rotation (setting based on student focus)

PHC 6937/6900 Public Health and EGH Journal Clubs
 PHC 6937 Public Health Ethics
 PHC 6162 Public Health Grant Writing
 PHC 7935 Critical Thing in Environmental and Global Health
 PHC 6937 Supervised Teaching in Public Health
 PHC 7979 Advanced Research
 PHC 7980 Research for Doctoral Dissertation

Table 2.6.c.16 Public Health PhD One Health Concentration Competencies and Learning Experiences

Public Health PhD Core Competencies – One Health Concentration	Learning Experiences																		
	MPH Core courses	PHC 6053	PHC 6000	PHC 6762	PHC 6764	PHC 6301	PHC 6312	PHC 6515	PHC 6937	PHC 6346	PHC 6036	PHC 6722	PHC 6937	PHC 6937	PHC 6162	PHC 7935	PHC 6937	PHC 7979	PHC 7980
Explain the contributions of the different core areas to public health research and practice	P																		
Apply public health principles learned in core courses to a focused area of study			R	P	R	R	R		R				R			R		P	P
Demonstrate an in-depth understanding of public health issues/problem solving approaches in a core public health concentration and specialization				P	P	P	R	P	R	P	P		R			P	P	P	P
Demonstrate competency in quality assurance/quality control methods			R				P			R	R	P	R			R		P	P
Demonstrate understanding of methodological issues applied to public health problems		P	P	R	R	R	R	P		P	P	R				R		R	R
Demonstrate appropriate research design and use of methods		P	P		R	P		R	R	R	R	P	R		R	R		P	P
Demonstrate skills necessary to assess the soundness of assessment and intervention tools used to measure public health concerns					R			P		P						R			

Public Health PhD Core Competencies – One Health Concentration	Learning Experiences																		
	MPH Core courses	PHC 6053	PHC 6000	PHC 6762	PHC 6764	PHC 6301	PHC 6312	PHC 6515	PHC 6937	PHC 6346	PHC 6036	PHC 6722	PHC 6937	PHC 6937	PHC 6162	PHC 7935	PHC 6937	PHC 7979	PHC 7980
Apply basic univariate statistics to a dataset (e.g., mean, median, standard deviation, skew) using statistical software such as SAS		P	P		R													R	R
Apply basic multivariate statistics to a dataset (e.g., multiple regression, logistic regression; hierarchical regression) using statistical software such as SPSS		P	R		R														
Describe ethical challenges in conducting public health research and possible solution				R									P	R	R				
Understand how to develop a federal grant proposal															P				
Critically evaluate public health research literature				R	R	R			P	R	R		P		R	P	R	R	R
Develop concentration-specific expertise to successfully conduct research and teach in that area								P		P							P		
Demonstrate the ability to perform key research tasks (e.g., literature search; literature review; database development; data collection; data analysis; dissemination of findings)					R											R		P	P

Public Health PhD Core Competencies – One Health Concentration	Learning Experiences																		
	MPH Core courses	PHC 6053	PHC 6000	PHC 6762	PHC 6764	PHC 6301	PHC 6312	PHC 6515	PHC 6937	PHC 6346	PHC 6036	PHC 6722	PHC 6937	PHC 6937	PHC 6162	PHC 7935	PHC 6937	PHC 7979	PHC 7980
Participate productively as a member of a research team					P													P	P
Proficiently craft a research hypothesis																		P	P
Independently develop a research procedure suitable for a doctoral dissertation																			P
Independently carry out a dissertation research project																			P
Independently analyze dissertation data																			P
Independently communicate, verbally and in writing, the results of the doctoral dissertation																			P
Develop a syllabus and evaluation plan for a public health course																	P		
Effectively deliver course material, organize and lead group learning activities/discussions					R											P	P		
Appropriately interact with students					R		R		R							R	P		

Public Health PhD Core Competencies – One Health Concentration	Learning Experiences																		
	MPH Core courses	PHC 6053	PHC 6000	PHC 6762	PHC 6764	PHC 6301	PHC 6312	PHC 6515	PHC 6937	PHC 6346	PHC 6036	PHC 6722	PHC 6937	PHC 6937	PHC 6162	PHC 7935	PHC 6937	PHC 7979	PHC 7980
Provide and receive constructive feedback concerning teaching skills																	P		

Courses:

PHC 6053 Regression Methods for Health Sciences
 PHC 6000 Epidemiology Research Methods I
 PHC 6762 International Public Health
 PHC 6764 Global Health and Development I
 PHC 6301 Aquatic Systems and Environmental Health
 PHC 6312 Water Quality and Human Health
 PHC 6515 An Introduction to Entomology, Zoonotic Diseases, and Food Safety
 PHC 6937 EGH Journal Club
 PHC 6346 Occupational and Environmental Health among Agriculture Workers
 PHC 6036 Environmental Infectious Diseases: A Molecular Approach
 PHC 6722 Research Methods Rotation (setting based on student focus)
 PHC 6937 Public Health Journal Club
 PHC 6937 Public Health Ethics
 PHC 6162 Public Health Grant Writing
 PHC 7935 Critical Thinking in Environmental and Global Health
 PHC 6937 Supervised Teaching in Public Health
 PHC 7979 Advanced Research
 PHC 7980 Research for Doctoral Dissertation

Table 2.6.c.17 Public Health PhD Social and Behavioral Science Concentration Competencies and Learning Experiences

Public Health PhD Competencies – Social and Behavioral Science Concentration	Learning Experiences															
	MPH Core courses	PHC 6053	PHC 6700	PHC 6112	PHC 6937	PHC 6937	PHC 7587	Concentration Area	Additional Theory courses	PHC 7907	PHC 6937	PHC 6937	PHC 6540	PHC 6937	PHC 7979	PHC 7980
Explain the contributions of the different core areas to public health research and practice	P									R			R	R		
Apply public health principles learned in core courses to a focused area of study	R						R	R		P		R			R	P
Demonstrate understanding of methodological issues applied to public health problems	R	R	P	P	P	P	R	P		P		R			R	P
Demonstrate appropriate research design and use of methods	R	R	R	R	P	P	R		R	R					R	P
Demonstrate competency in quality assurance/quality control methods			P	R											P	p
Demonstrate skills necessary to assess the soundness of assessment and intervention tools used to measure public health concerns			R	R	P		R			R					P	P
Apply basic univariate statistics to a dataset (e.g., mean, median, standard deviation, skew) using statistical software such as SPSS	R	R	R	R			R			R					P	P
Apply basic multivariate statistics to a dataset (e.g., multiple regression, logistic regression; hierarchical regression) using statistical software such as SPSS		P					R			R					P	P

Public Health PhD Competencies – Social and Behavioral Science Concentration	Learning Experiences															
	MPH Core courses	PHC 6053	PHC 6700	PHC 6112	PHC 6937	PHC 6937	PHC 7587	Concentration Area	Additional Theory courses	PHC 7907	PHC 6937	PHC 6937	PHC 6540	PHC 6937	PHC 7979	PHC 7980
Describe ethical challenges in conducting public health research and possible solution	R					R	R	R		R	P				R	P
Develop a full draft of a grant proposal using the NIH format		R						R	R			P			R	p
Critically evaluate public health research	R	R	R				P	R		P	R	R				P
Develop a syllabus and evaluation plan for a public health course													P	P		
Demonstrate an in-depth understanding of public health issues/problem solving approaches in a core public health concentration and specialization								P					R	R		P
Develop concentration-specific expertise to successfully conduct research and teach in that area		R	R			R	R	P	P	R		R	R	P	R	P
Perform key research tasks (e.g., literature search; literature review; database development; data collection; data analysis; dissemination of findings)	R		P	R		P	R			R		R			P	P
Participate productively as a member of a research team			R			R									P	
Effectively deliver course material, organize and lead group learning activities/discussions	R					R	R	R	R	R	R		P	P		
Appropriately interact with students			R	R		R	R						P	P		

Public Health PhD Competencies – Social and Behavioral Science Concentration	Learning Experiences															
	MPH Core courses	PHC 6053	PHC 6700	PHC 6112	PHC 6937	PHC 6937	PHC 7587	Concentration Area	Additional Theory courses	PHC 7907	PHC 6937	PHC 6937	PHC 6540	PHC 6937	PHC 7979	PHC 7980
Provide and receive constructive feedback concerning teaching skills			R	R									P	P		
Independently craft a research question suitable for a doctoral dissertation		R						R	R			P			R	P
Independently develop a research procedure suitable for a doctoral dissertation		R						R	R			P			R	P
Design and submit an IRB application appropriate to the dissertation research project												R			R	P
Independently carry out a dissertation research project												R				P
Independently analyze dissertation data		R														P
Independently communicate, verbally and in writing, the results of the doctoral dissertation		R						R	R							P

Courses:

PHC 6053 Regression Methods for Health Sciences
 PHC 6700 Social and Behavioral Research Methods
 PHC 6112 Assessment and Surveillance
 PHC 6937 Instrument Development and Testing
 PHC 6937 Qualitative Methods in Public Health
 PHC 7587 Theory and Development Testing
 Concentration Area of Specialization
 Additional Theory Courses

PHC 7907 Public Health and SBS Journal Club
 PHC 6937 Public Health and Biomedical Ethics
 PHC 6937 Grant Writing
 PHC 6940 Seminar in Public Health Teaching
 PHC 6937 Supervised Teaching in Public Health
 PHC 7979 Advanced Research
 PHC 7980 Research for Doctoral Dissertation

Table 2.6.c.18 Communication Sciences and Disorders PhD Competencies and Learning Experiences

Communication Sciences and Disorders PhD Competencies	Learning Experiences																
	RSD 6110	PHC 6001	PHC 6937	CLP 6527/8	CLP 7934a	STA 6126/7	Spa 6581	RSD 6706	CLP 7934d	PSY 6930	VME 6767	Courses in Speciality areas	GMS 6818	SPA 6940	SPA 7979	Dissertation Proposal	SPA 7980
The student will be able to discuss how their research contributes, directly or indirectly, to communication sciences and disorders of individuals and populations	P	P	P					P	R	R		P	P		R	R	R
The student will be able to discuss public health issues with respect to communication sciences and disorders	P		P										P	P	R	R	R
The student will be able to discuss how their research fits in the continuum of communication sciences and disorders research.								P	R	R		P	P		R	R	R
The student will be able to conduct research in one of three areas of specialization: <u>Audiology</u> , <u>Speech Pathology</u> or <u>Speech Science</u> .				P	P	P	p	P	R	R	P		R		R	R	R
The student will be able to write research manuscripts for peer reviewed, communication sciences and disorders related, professional journals.							p	P	R	R		P	R		R	R	R
The student will be able to analyze and interpret data in communication sciences and disorders				P	P	P	p	R				P			R	R	R
The student will be able to present research findings at scientific and professional conferences.							P					P			R	R	R
The student will be able to teach at the college level in communication sciences and disorders academic programs.														R	R		
The student will understand how to how to develop and write research grants									P	P					P		

Courses:

RSD 6110 Rehabilitation Science Theory and Application
PHC 6001 Principles of Epidemiology
PHC 6937 Introduction to Public Health
CLP 6527/8 Measurement, Research Design, and Statistical Analysis in Clinical Psychology I
CLP 7934a Multivariate Analysis
RSD 6706 Scientific Writing for Rehabilitation Professionals
CLP 7934d Advanced Writing
ALS 6046 Grant Writing
PSY 6930 Grant Writing
VME 6767 Issues in the Responsible Conduct of Research
GMS 6818 Design & Conduct of Clinical Trials
EDF 6938 Teaching Practicum for Graduate Students
SPA 6940 Supervised Teaching
SPA 7979 Advanced Research (Qualifying Exam)
SPA 7980 Doctoral Research (Dissertation)

Table 2.6.c.19 Rehabilitation Sciences PhD Competencies and Learning Experiences

Rehabilitation Science PhD Competencies	Learning Experiences																	
	RSD 6110	RSD 6935C	RSD 6935C	RSD 6905	RSD 6910	RSD 7979	RSD 7980	CLP 6527C	CLP 6528C	STA 6126	STA 6127	EDF 6401	EDF 6403	ALS 6046	VME 6767	RSD 6900	RSD 6940	PhD Qualifying Exam PhD Final Defense
The student will be able to discuss how their research contributes, either directly or indirectly, to the health and well-being of individuals, communities and populations	P	R	R															R
The student will be able to discuss how their research fits in the continuum of rehabilitation science	P	R	R															R
The student will be able to apply rehabilitation science theoretical constructs to research development	P	R																
The student will be able to conduct research in one of two areas of specialization: <u>Movement Science</u> or <u>Disability Science</u>				P	P	P	P	P	P	P	P	P	P					
The student will be able to write research manuscripts for peer reviewed, rehabilitation related, professional journals		R	P				P							R				
The student will have the necessary skills to present research findings at scientific and professional conferences		P	P															
The student will understand how to how to develop and write research grants		P												P	R			

Rehabilitation Science PhD Competencies	Learning Experiences																	
	RSD 6110	RSD 6935C	RSD 6935C	RSD 6905	RSD 6910	RSD 7979	RSD 7980	CLP 6527C	CLP 6528C	STA 6126	STA 6127	EDF 6401	EDF 6403	ALS 6046	VME 6767	RSD 6900	RSD 6940	PhD Qualifying Exam PhD Final Defense
The student will be competent to serve as reviewer of other rehabilitation investigators' research manuscripts and grant proposals		P						R	R	R	R	P	R	P	P			
The student will be able to teach at the college level in rehabilitation related academic programs																P	P	

Courses:

- RSD 6110 Rehabilitation Science Theory and Application
- RSD 6935C Doctoral Seminar in Rehabilitation Science
- RSD 6935C The Art of Scientific Dissemination
- RSD 6905 Individual Work
- RSD 6910 Supervised Research
- RSD 7979 Advanced Research
- RSD 7980 Research for Doctoral Dissertation
- CLP 6527C Measurement, Research Design, and Statistical Analysis in Clinical Psychology I
- CLP 6528C Measurement, Research Design, and Statistical Analysis in Clinical Psychology II
- STA 6126 Statistical Methods in Social Research I
- STA 6127 Statistical Methods in Social Research II
- EDF 6401 Educational Statistics
- EDF 6403 Quantitative Research Methods in Education
- ALS 6046 Grant Writing
- VME 6767 Issues in the Responsible Conduct of Research
- RSD 6900 College Classroom: Teaching Process and Practice
- RSD 6940 Supervised Teaching in Rehabilitation
- PhD Qualifying Exam
- PhD Final Defense

Table 2.6.c.20 Bachelor of Health Science in Communication Sciences and Disorders Competencies and Learning Experiences

Bachelor of Health Science in Communication Sciences and Disorders Competencies	Learning Experiences											
	LIN 2210	PHC 4101	SPA 3011	SPA 3032	SPA 3101	SPA 4004	SPA 4050	SPA 4104	SPA 4250	SPA 4302	SPA 4321	SPA 4400
Apply theories and principles of basic acoustics/ psycho-acoustics, anatomy and physiology of speech/hearing, neuroanatomical/physiological bases of speech and normal language development			P	P	P	P		R	R			R
Understand key issues in etiology and the characteristics of speech, language and auditory disorders					R		R	R	P	P	R	P
Demonstrate the basics of assessment and treatment of speech, language and auditory disorders							R		P	P	P	P
Understand and describe professional practice patterns and ethical standards							P		R	R	R	
Describe the fundamental relationships between aging and communication, cultural influences on communication and modalities of communication	R		R		R	P	R	R	R	R	R	R
Transcribe normal and disordered speech phonetically	P					R			R			
Demonstrate an understanding of the impact of disease and disability on the health of populations		P					R			R		
Apply clinical problem-solving skills to defend assessment and treatment choices			R	R			R		P	R	R	P
Articulate ideas effectively in an oral presentation on a critical topic												P
Produce a coherent analytical essay on critical content										P		

Courses:

LIN 2210 Phonetic Theory and Transcription
 PHC 4101 Public Health Concepts
 SPA 3011 Speech Acoustics
 SPA 3032 Fundamentals of Hearing
 SPA 3101 Anatomy and Physiology of Speech
 SPA 4004 Language Development

SPA 4050 Observation
 SPA 4104 Neural Bases of Communication
 SPA 4250 Introduction to Speech Disorders
 SPA 4302 Audiometry and Hearing Disorders
 SPA 4321 Audiologic Rehabilitation
 SPA 4050 Introduction to Language Disorders

Table 2.6.c.21 BHS in Health Science Competencies and Learning Experiences

BHS Competencies: Health Science Track	Learning Experiences										
	HSC 3502	HSC 4558	OTH 3416	HSC 3661	RCS 4415L	HSC 4608L	HSC 4184	HSC 3057	HSC4652L	PHC 4101	HSC 3111
Demonstrate an understanding of the U.S. health care system and the role of the health professional in this system.						R					P
Understand and comprehensively describe various disabilities and factors affecting their management	R	R	P							R	
Demonstrate an understanding of the impact of disease and disability on the health of populations.	P	P	R							P	
Demonstrate basic knowledge of core bioethical and legal principles impacting contemporary health issues.								R	P		
Develop appropriate professional behaviors and leadership skills for careers in health care.				R			P		R		
Critically evaluate the empirical bases of practice in health science.						R		P			
Demonstrate basic therapeutic communication skills using appropriate presentation modalities.				P	R						

Courses:

HSC 3502 Survey of Diseases and Disabilities I

HSC 4558 Survey of Diseases and Disabilities II

OTH 3416 Pathophysiology

HSC 3661 Therapeutic Communication Skills

RCS 4415L Therapeutic Communication Skills Lab

HSC 4608 Critical Thinking in Health Care

HSC 4184 Leadership Skills and Styles

HSC 3057 Research Methods and Issues in Health Care

HSC 4652L Ethical and Legal Issues in the Health Professions

PHC4101 Public Health Concepts

HSA 3111 Introduction to the US Health care System

Table 2.6.c.22 BHS in Health Science Competencies and Learning Experiences

BHS Competencies: Pre-OT Track	Learning Experiences															
	HSC 3502	HSA 3111	OTH 3416	OTH 3200	HSC 4558	HSC 3057	PHC 4101	OTH 3201	HSC 3661	OTH 4418	HSC4184	RCS 4515L	HSC4652L	OTH 4412 OTH 4412L	OTH 3413	HSC 4608L
Develop the foundational skills, knowledge, and attitudes needed to success-fully work in a health care environment in which occupational therapists practice		R	R	P				R		R				R	R	
Acquire knowledge in biological, psychological, and social systems that impact people's performance in occupational roles.			P	R				R		P				P	R	
Acquire fundamental skills, knowledge, and attitudes necessary to be competitive for graduate level study in an entry-level Master's Program in OT.			R	R				R		R				R	P	
Demonstrate an understanding of the U.S. health care system and the role of the health professional in this system.		P														R
Understand and comprehensively describe various disabilities and factors affecting their management.	R		P		R											
Demonstrate an understanding of the impact of disease and disability on the health of populations	P	P	R				P									
Demonstrate basic knowledge of core bioethical and legal principles impacting contemporary health issues						R							P			
Develop appropriate professional behaviors and leadership skills for careers in health care.									R		P	R				
Critically evaluate the empirical bases of practice in health science.						P										R
Demonstrate basic therapeutic communication skills using appropriate presentation modalities.									P			R				

Courses:

HSC 3502 Survey of Diseases and Disabilities I
HSA 3111 Introduction to the US Health care System
OTH 3416 Pathophysiology
OTH 3200 Applied Human Development I
HSC 4558 Survey of Diseases and Disabilities II

2.6.c Competencies

HSC 3057 Research Methods and Issues in Health Care
PHC4101 Public Health Concepts
OTH 3201 Applied Human Development II
HSC 3661 Therapeutic Communication Skills
OTH 4418 The Nervous System and Disorders
HSC 4184 Leadership Skills and Styles
RCS 4415L Therapeutic Communication Skills Lab
HSC 4652L Ethical and Legal Issues in the Health Professions
OTH 4412 Musculoskeletal Anatomy
OTH 3413 Applied Kinesiology
HSC 4608 Critical Thinking in Health Care

Table 2.6.c.23 BHS in Health Science Competencies and Learning Experiences

BHS Competencies: Pre-Public Health Track	Learning Experiences												
	HSC 3502	HSA 3111	PHC 4101	PHC 3603	HSC4558	PHC 3440	HSC 3057	HSC 3661	PHC 4024	RCS 4415	PHC 4117	PHC 4943	RCS 4451
Acquire fundamental knowledge of common public issues and interventions.				P									R
Gain appreciation of impact of health issues across the globe						P			R				
Participate in community public health services		R										P	
Develop a commitment to lifelong learning and social responsibility.									P		R		
Develop the foundational public health knowledge, skills, and values that pre-prepare graduates to enter graduate level public health programs or enter other graduate and professional health care programs.			R								P		
Demonstrate an understanding of the U.S. health care system and the role of the health professional in this system.		P		R									
Understand and comprehensively describe various disabilities and factors affecting their management.	P				P								
Demonstrate an understanding of the impact of disease and disability on the health of populations			P						R				
Demonstrate basic knowledge of core bioethical and legal principles impacting contemporary health issues.							R				P		
Develop appropriate professional behaviors and leadership skills for careers in health care.								R		R	P		
Critically evaluate the empirical bases of practice in health science.							P		R				
Demonstrate basic therapeutic communication skills using appropriate presentation modalities.								P		R			
Develop the foundational public health knowledge, skills, and values that prepare graduates to enter graduate level public health programs or enter other graduate and professional health care programs.			P	R		R			R		R	R	

Courses:

HSC 3502 Survey of Diseases and Disabilities I
HSA 3111 Introduction to the US Health care System
PHC4101 Public Health Concepts
PHC 3603 Critical Issues in Public Health
HSC 4558 Survey of Diseases and Disabilities II
PHC 3440 Global Public Health
HSC 3057 Research Methods and Issues in Health Care

HSC 3661 Therapeutic Communication Skills
PHC 4024 Applied Epidemiology
RCS 4415L Therapeutic Communication Skills Lab
PHC 4117 Public Health management and Leadership
PHC 4943 Service Learning Practicum
RCS 4451 Public Health Aspects of Substance Abuse

Table 2.6.c.24 MA in Communication Sciences and Disorders: Competencies and Learning Experiences

MA CSD Competencies	Learning Experiences (Core Academic Classes)																	
	SPA 5204	SPA 5211	SPA 5225	SPA 5245	SPA 5254	SPA 5401	SPA 5405	SPA 6008	SPA 6233	SPA 6410	SPA6436	SPA 6564	SPA6565	SPA6568	SPA6581	SPA6830	SPA6905	
Students will demonstrate knowledge of speech, language, hearing, and swallowing processes, including their biological, neurological, acoustic, psychological, developmental, linguistic, and cultural bases.	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
Students will demonstrate knowledge of the principles and methods of prevention, assessment, and intervention for people with communication and swallowing disorders, including consideration of anatomical/physiological, psychological, developmental, social, linguistic and cultural correlates of the disorders.	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
Students will demonstrate clinical skills needed to assess and diagnose speech, language and swallowing disorders.	R	R	R	R	R	R	R	R	R	R		R	R	R	R	R	R	R
Students will demonstrate clinical skills needed to provide efficacious and appropriate intervention for individuals with speech, language, and swallowing disorders.	R	R	R	R	R	R	R	R	R	R		R	R	R	R	R	R	R
Students will demonstrate knowledge and performance of legal and ethical behaviors in all interactions with clients/patients and their families/caregivers, as well as with other professionals.	R	R	R	R	R	R	R	R	R	R		R	R	R	R	R	R	R
Students will demonstrate knowledge and performance of effective communication, counseling, and collaboration with clients/patients and relevant others, recognizing the needs, values, preferred mode of communication, and cultural/linguistic background of the client/patient, family, caregivers, and relevant others.	R	R	R	R	R	R	R	R	R	R		R	R	R	R	R	R	R

MA CSD Competencies	Learning Experiences (Clinical Courses)												
	SPA 6207	SPA 6211	SPA 6229	SPA 6217	SPA6229	SPA6416	SPA6430	SPA6507	SPA6524	SPA6935	SPA 6942	SPA 6971	SPA7523
Students will demonstrate knowledge of speech, language, hearing, and swallowing processes, including their biological, neurological, acoustic, psychological, developmental, linguistic, and cultural bases.	R	R	R	R	R	R	R	R	R	R	R	R	R
Students will demonstrate knowledge of the principles and methods of prevention, assessment, and intervention for people with communication and swallowing disorders, including consideration of anatomical/physiological, psychological, developmental, social, linguistic and cultural correlates of the disorders.	R	R	R	R	R	R	R	R	R	R	R	R	R
Students will demonstrate clinical skills needed to assess and diagnose speech, language and swallowing disorders.	P	P	P	P	P	P	P	P	P	P	P		P
Students will demonstrate clinical skills needed to provide efficacious and appropriate intervention for individuals with speech, language, and swallowing disorders.	P	P	P	P	P	P	P	P	P	P	P		P
Students will demonstrate knowledge and performance of legal and ethical behaviors in all interactions with clients/patients and their families/caregivers, as well as with other professionals.	P	P	P	P	P	P	P	P	P	P	P		P
Students will demonstrate knowledge and performance of effective communication, counseling, and collaboration with clients/patients and relevant others, recognizing the needs, values, preferred mode of communication, and cultural/linguistic background of the client/patient, family, caregivers, and relevant others.	P	P	P	P	P	P	P	P	P	P	P		P

Courses:

SPA 5204: Phonological Disorders

SPA 5211: Voice Disorders

SPA 5225: Principles of Speech Pathology: Stuttering

SPA 5245: Communicative Disorders Related to Cleft Palate

SPA 5254: Neurocognitive Language Disorders

SPA 5401: Principles of Speech Pathology: Language Disorders

SPA 5405: Language Disorders II

SPA 6008: Medical Aspects of Speech-Language Pathology

SPA 6207: Applied Phonological Disorders: Diagnosis and Treatment

SPA 6211: Applied Voice Disorders: Diagnosis and Treatment

SPA 6217: Vocal Health and Habilitation

2.6.c Competencies

SPA 6229: Applied Fluency Disorders
SPA 6233: Speech Motor Control Disorders
SPA 6410: Adult Language Disorders
SPA 6416: Applied Neurogenic Disorders: Diagnosis and Treatment
SPA 6430: Applied Developmental Disorders: Diagnosis and Treatment
SP A6436: Issues in Autism Spectrum Disorders
SPA 6507: Applied Augmentative and Alternative Communication
SPA 6524: Practicum Speech-Language Therapy
SPA 6564: Communication and Aging
SPA 6565: Seminar in Dysphagia
SPA 6568: Clinical Evaluation in Medical Speech-Language Pathology
SPA 6581: Dysphagia Management
SPA 6581: Endoscopy Seminar
SPA 6581: Special Clinical Courses (by section):

- SPA 6581: Applied Voice Disorders
- SPA 6581: Dysphagia Management Lab
- SPA 6581: Applied Developmental Disorders
- SPA 6581: Applied Adult Disorders
- SPA 6581: Applied Developmental Disorders
- SPA 6581: Applied Medical Speech-Language Pathology
- SPA 6581: Applied Dysphagia
- SPA 6581: Applied School Speech-Language Pathology
- SPA 6581: Applied Craniofacial Disorders
- SPA 6581: Applied Motor Speech Disorders

SPA 6830: Communication Disorders in Medically Complex Pediatric Populations
SPA 6905: Individual Study
SPA 6905: Clinician's Meeting
SPA 6905: Diagnosis in Speech-Language Pathology
SPA 6910: Supervised Research
SPA 6935: Applied Reading Disabilities: Diagnosis and Treatment
SPA 6942: Externship in Speech-Language Pathology
SPA 6971: Research for Master's Thesis
SPA 7523: Practicum Pathology Medical-Dental Setting

Table 2.6.c.25 MHA Competencies and Learning Experiences

MHA Competencies Year 1	Learning Experiences									
	HSA 6114	HSA 6115	PHC 6001	PHC 6050	HSA 5174	HSA 6126	HSA 6196	HSA 6436	HSA 6855	HSC 5536
Healthcare Environment and Community										
a. Continually scan and interpret key trends and activities in the health care environment.	P		P			R		R	P	R
b. Use evidence based approaches to design and implement programs that improve community health.	P		P	R			R		R	
c. Apply principles and methods of health policy analysis and development to key national, state, and local health issues.	P					R				
d. Understand, monitor, and comply with laws and regulations that protect healthcare practitioners, organizations, and the public.	R					R			R	
e. Use marketing and needs assessment techniques in support of healthcare program development and implementation.	R				R		R		R	
Healthcare Organizations and Performance										
f. Use the principles and tools of human resource management, organizational behavior, and the leadership of change to achieve organizational goals.		P							R	
g. Measure and improve clinical and organizational performance and, as needed, redesign organizational systems and processes.		R					P		R	
h. Use principles of strategic human resources management to optimize workforce recruitment, retention, and performance.		R								
i. Understand and communicate the value of administrative, clinical, and decision-support technologies in improving organizational performance.		R					P		R	
j. Understand the roles and responsibilities of the governing board and identify effective techniques for establishing sound relationships between senior leaders and the board.		P							R	
k. Develop, evaluate, and understand how to implement strategies that further the mission, vision, and values of the organization.		P			R				R	

2.6.c Competencies

Business Analysis and Techniques										
l. Use project management techniques and systems thinking to plan and manage an initiative involving significant resources, scope, and impact.							P			
m. Use statistical and analytical tools to measure and improve organizational performance.		R		P	P		P	R	R	
n. Apply general and health economics concepts and show demonstrated competence with analyses of pricing, service demand, and risk.						R	R	P		
o. Apply basic financial management and accounting principles in a health care context.					P	R			R	
p. Apply quality improvement principles and evidence-based techniques to analyze and improve patient care processes.							P		R	
Leadership and Professionalism										
q. Understand how leaders energize stakeholders with a compelling vision that fosters and sustains their shared commitment to organizational goals.		P							P	
r. Assemble a team with balanced capabilities and use effective group processes to hold team members accountable individually and collectively for results.		P			R	R				
s. Identify and effectively use appropriate communication vehicles based on audience characteristics and communication goals.		P	R		P				P	P
t. Articulate, model, and promote professional values and ethics.	R	R	R						P	R
u. Accurately assess individual strengths and weaknesses (including the impact that you have on others) and engage in continual professional development including reflection and self-directed learning.		R							P	
v. Establish, build, and sustain a network of professional relationships.		R							P	R

MHA Competencies Year 2	Learning Experiences										
	HSA 6177	HSA 6188	HSA 6198	HSA 6427	HSA 6152	HSA 6342	HSA 6385	HSA 6105	PHC 6937	HSA 6939	Other
Healthcare Environment and Community											
a. Continually scan and interpret key trends and activities in the health care environment.			R	R	R	R	R	P	P	P	P
b. Use evidence based approaches to design and implement programs that improve community health.							R		R		
c. Apply principles and methods of health policy analysis and development to key national, state, and local health issues.					P				R	R	P
d. Understand, monitor, and comply with laws and regulations that protect healthcare practitioners, organizations, and the public.			R	P	R	R	R		P		R
e. Use marketing and needs assessment techniques in support of healthcare program development and implementation.		P	R						P		
Healthcare Organizations and Performance											
f. Use the principles and tools of human resource management, organizational behavior, and the leadership of change to achieve organizational goals.		R	R			P	R	R			R
g. Measure and improve clinical and organizational performance and, as needed, redesign organizational systems and processes.	R	R	P	R		R	P		R		
h. Use principles of strategic human resources management to optimize workforce recruitment, retention, and performance.		R				P	R				
i. Understand and communicate the value of administrative, clinical, and decision-support technologies in improving organizational performance.		R	P				R				
j. Understand the roles and responsibilities of the governing board and identify effective techniques for establishing sound relationships between senior leaders and the board.		P				R		P			R
k. Develop, evaluate, and understand how to implement strategies that further the mission, vision, and values of the organization.	P	P						R			P

2.6.c Competencies

Business Analysis and Techniques											
l. Use project management techniques and systems thinking to plan and manage an initiative involving significant resources, scope, and impact.	R	P	R		R		P		R	P	R
m. Use statistical and analytical tools to measure and improve organizational performance.	P		R		R		R			R	R
n. Apply general and health economics concepts and show demonstrated competence with analyses of pricing, service demand, and risk.	R	R								P	P
o. Apply basic financial management and accounting principles in a health care context.	P	R	R							P	R
p. Apply quality improvement principles and evidence-based techniques to analyze and improve patient care processes.		R	R				P			R	R
Leadership and Professionalism											
q. Understand how leaders energize stakeholders with a compelling vision that fosters and sustains their shared commitment to organizational goals.		R	R			R		P		P	P
r. Assemble a team with balanced capabilities and use effective group processes to hold team members accountable individually and collectively for results.	R		R	P						R	R
s. Identify and effectively use appropriate communication vehicles based on audience characteristics and communication goals.	R	R	R	P	P	R	R	P	R	P	P
t. Articulate, model, and promote professional values and ethics.	R	R	R	P		R	R	P	R	P	P
u. Accurately assess individual strengths and weaknesses (including the impact that you have on others) and engage in continual professional development including reflection and self-directed learning.			R			R	R	P		P	P
v. Establish, build, and sustain a network of professional relationships.			R					P		P	P

Courses:

Year One

HSA 6114 Introduction to the U.S. Health Care System
HSA 6115 Intro to Management of Health Service Organizations
PHC 6001 Principles of Epidemiology
PHC 6050 Statistical Methods for Health Sciences I
HSA 5174 Fundamentals of Health Care Finance
HSA 6126 The U.S. Health Insurance System

HSA 6196 Health Services Operations Management
HSA 6436 Health Economics
HSA 6855 Internship in Health Administration
HSC 5536 Medical Terminology for the Health Professions

Year Two

HSA 6177 Health Care Finance
HSA 6188 Strategic Management in Health Administration
HSA 6198 Information Management in Health Administration
HSA 6427 Legal and Ethical Aspects of Health Administration
HSA 6152 Health Policy
HSA 6342 Human Resource Management
HSA 6385 Performance Management for Health Care Managers
HSA 6105 Professional Skills Seminar
PHC 6937 Introduction to Public Health (online)
HSA 6939 Capstone Seminar in Health Administration
Other

Table 2.6.c.26 Master of Occupational Therapy Competencies and Learning Experiences

MOT Competencies	Learning Experiences								
	OTH 5002	OTH 5722	OTH 6539	OTH 5770	OTH 6636 & 6442 OTH 6635 & 6641	OTH 5848 OTH 5849	OTH 6726	PHC 6937	Other Learning Experience
Achieve entry-level clinical competence through a combination of OT academic and fieldwork education.	R	R	R	R	P	R			Program-wide Practical and Competency Exams NBCOT Certification Exam ACOTE Evaluation of Fieldwork Performance
Articulate and apply occupational therapy theory and evidence-based evaluations and interventions to achieve expected outcomes as related to occupational therapy.	R	R	P	P	R	R	R		
Demonstrate the professional behaviors expected of a health care professional in general and at the standard expected by our profession.	P	P			R	R	R		
Demonstrate an understanding of service management principles and the government, economic, social and political issues that affect health care and clinical practice.	P	R	R	R	R	R	P		
Practice and employ the ethical standards, values, and attitudes of the occupational therapy profession.	P	P	R	R	R	R	R		
Demonstrate an understanding of the relationship of interdisciplinary perspectives and collaboration, and the impact of the public health of communities and populations.	R	P	R	R	R	R	R	P	

Courses:

OTH 5002 Foundations of Occupational Therapy
 OTH 572 Professional Development in Occupational Therapy
 OTH 6539 Occupational Therapy Theory
 OTH 5770 Research in Occupational Therapy
 OTH 6726 Occupational Therapy Service Delivery and Management
 OTH 6635 and 6636: Principles of OT Evaluation and Screening 1 and 2
 OTH 6641 and 6642: Principles of OT Intervention 1 and 2
 OTH 5848 and OTH 5849: Fieldwork in Occupational Therapy 1 and 2
 PHC 6937 Introduction to Public Health

Table 2.6.c.27 Master of Health Science (MHS) One Health Concentration Competencies and Learning Experiences

Environmental and Global Health MHS Core Competencies – One Health Concentration	Learning Experiences						
	Public Health Core courses	PHC 6346	PHC 6312	PHC 6515	PHC 6036	PHC 7935	PHC 6947
Explain the contributions of the different core areas to public health research and practice	P						
Apply public health principles learned in core courses to a focused area of study			R				P
Demonstrate an in-depth understanding of public health issues/problem solving approaches in a core public health concentration and specialization		P	R	P	P	P	
Demonstrate competency in quality assurance/quality control methods		R	P		R	R	
Demonstrate understanding of methodological issues applied to public health problems		P	R	P	P	R	
Demonstrate appropriate research design and use of methods		R		R	R	R	P
Demonstrate skills necessary to assess the soundness of assessment and intervention tools used to measure public health concerns		P		P		R	
Apply basic univariate statistics to a dataset (e.g., mean, median, standard deviation, skew) using statistical software such as SAS	P						R
Apply basic multivariate statistics to a dataset (e.g., multiple regression, logistic regression; hierarchical regression) using statistical software such as SPSS	P						R
Describe ethical challenges in conducting public health research and possible solution						P	
Critically evaluate public health research literature		R			R	P	
Develop concentration-specific expertise to successfully conduct research and teach in that area		P		P	P		
Demonstrate the ability to perform key research tasks (e.g., literature search; literature review; database development; data collection; data analysis; dissemination of findings)						P	P
Participate productively as a member of a research team							P

Environmental and Global Health MHS Core Competencies – One Health Concentration	Learning Experiences						
	Public Health Core courses	PHC 6346	PHC 6312	PHC 6515	PHC 6036	PHC 7935	PHC 6947
Proficiently craft a research hypothesis						R	P
Demonstrate an understanding in identifying and approaching a research problem						R	P

Courses:

- Public Health Core courses PHC 6052, PHC 6001, PHC 6313, PHC 6937
- PHC 6346 Occupational & Environmental Health among Agriculture Workers
- PHC 6312 Water Quality & Human Health
- PHC 6515 An Introduction to Entomology, Zoonotic Diseases and Food Safety
- PHC 6036 Environmental Infectious Diseases: A Molecular Approach
- PHC 7935 Seminar in Environmental and Global Health
- PHC 6947 Occupational Field Research Experience

Table 2.6.c.28 Doctor of Audiology Competencies and Learning Experiences

Doctor of Audiology (AuD) Competencies	Learning Experiences											
	SPA 6010	SPA 6340	SPA 6133L	SPA 5304	SPA 5102	SPA 6905	SPA 5051	SPA 6506	SPA 6316	SPA 6305	SPA 6323	SPA 7354
Demonstrate advanced understanding of the acoustic, anatomical, psychological, developmental and social aspects of normal and disordered hearing	P				P	P	R			P	P	R
Demonstrate knowledge of the range of appropriate management steps for persons with hearing and balance disorders and the methods for determining the effectiveness of each		P	P				R	R		R	P	R
Demonstrate the ability to obtain accurate information about hearing and balance function, including via case history interview, and through the appropriate selection and completion of behavioral, electrophysiologic and psychosocial assessments.		R	R	P			R	R	P	P	R	R
Demonstrate the ability to apply clinical decision-making and problem-solving skills in a clinical audiology context		R	R	R	R	R	R	R	R	R	R	R
Demonstrate the ability to critically evaluate research relevant to audiologic practice	R	R		R	R	R			R	R	R	R
Demonstrate the ability to communicate critical clinically relevant information verbally or in writing				R			P	P				

2.6.c Competencies

Doctor of Audiology (AuD) Competencies	Learning Experiences											
	SPA 5315	SPA 6311	GMA 7795	SPA 6531	SPA 6324	SPA6341	SPA 6805	SPA 6270	PHC 6050	SPA 6581	SPA 6346	SPA 6531
Demonstrate advanced understanding of the acoustic, anatomical, psychological, developmental and social aspects of normal and disordered hearing	R	R	R	R	P			R		P	R	R
Demonstrate knowledge of the range of appropriate management steps for persons with hearing and balance disorders and the methods for determining the effectiveness of each	R	R		R	P	P		R		R	P	R
Demonstrate the ability to obtain accurate information about hearing and balance function, including via case history interview, and through the appropriate selection and completion of behavioral, electrophysiologic and psychosocial assessments.	P	P		R	R	R		R		R	R	R
Demonstrate the ability to apply clinical decision-making and problem-solving skills in a clinical audiology context	P	P	R	R	R	P	R	R		R	R	R
Demonstrate the ability to critically evaluate research relevant to audiologic practice	R	R	R		R	R	P	R	R		R	
Demonstrate the ability to communicate critical clinically relevant information verbally or in writing	R	R		P						R		P

Doctor of Audiology (AuD) Competencies	Learning Experiences									
	SPA 6390	PHA 5933	SPA 7833	SPA 6581	SPA 6317	SPA 7945	SPA 6581	SPA 6581	SPA 6581	SPA 7958
Demonstrate advanced understanding of the acoustic, anatomical, psychological, developmental and social aspects of normal and disordered hearing		R		R	R	R			R	R
Demonstrate knowledge of the range of appropriate management steps for persons with hearing and balance disorders and the methods for determining the effectiveness of each		R			R	R	R	R	P	R
Demonstrate the ability to obtain accurate information about hearing and balance function, including via case history interview, and through the appropriate selection and completion of behavioral, electrophysiologic and psychosocial assessments.		R		R	R	R		R		R
Demonstrate the ability to apply clinical decision-making and problem-solving skills in a clinical audiology context	R			R	R	R		R	P	R
Demonstrate the ability to critically evaluate research relevant to audiologic practice	R	R	P	R	R			R	R	R
Demonstrate the ability to communicate critical clinically relevant information verbally or in writing	P		R		R	P				P

Courses:

SPA 6010 Basic Auditory Science

SPA 6341 Amplification II

SPA 6340 Amplification

SPA 6805 Introduction to Graduate Research

SPA 6133L Hearing Aid Analysis lab

SPA 6270 Auditory Processing Disorders

SPA 5304 Principles of Audiological Evaluation

PHC 6050 Statistical methods for Health Sciences

SPA 5102 Anatomy and Physiology of the Auditory System

PHC 6581 Counseling Skills

SPA 6905 Anatomy and Physiology of Balance

SPA 6346 Cochlear Implants

SPA 5051 Initial Clinical Experience in Audiology

SPA 6531 Clinical Practice in Hearing Assessment

SPA 6506 Clinical Clerkship

SPA 6390 Professional Issues in Hearing Care

SPA 6316 Clinical Auditory Electrophysiology

PHA 5933 Auditory Pharmacology
SPA 6305 Pediatric Audiology
SPA 7833 Audiologic Research Project
SPA 6323 Auditory Rehabilitation in Adults
SPA 6581 Advanced Auditory Electrophysiology
SPA 7354 Occupational & Environmental Hearing Conservation
SPA 6317 Vestibular Disorders
SPA 5315 Peripheral & Central Auditory Disorders
SPA 7945 Graduate Practicum
SPA 6311 Medical Audiology
SPA 6581 Sign Skills for Audiologists
GMA 7795 Functional Human Neuroanatomy
SPA 6581 Current Issues in Audiology
SPA 6531 Clinical Practice in Hearing Assessment
SPA 6581 Cochlear Implants II
SPA 6324 Audiologic Rehabilitation in Children
SPA 7958 Fourth Year Externship

Table 2.6.c.29 Doctor of Physical Therapy Core Competencies and Learning Experiences

DPT Core Competencies Year 1	Learning Experiences																	
	PHT 6024	PHT 6502	PHT 6935C	PHT 6187C	PHT 6605	PHT 6206C	PHT 6188C	PHT 6189C	PHT 6168C	PHT 6503	PHT 6207C	PHT 6152C	PHT 6770	PHT 6218C	PHT 6860	PHT 6608	PHT 6352	PHT 6186C
Accountability	P	R		R		R	P	P		P			R	R	P		P	
Altruism	P	R								R					R			
Compassion/Learning	P	R		R		R	R	R		R								
Integrity	P	R		R		R	R	R		R					R		P	
Professional Duty	P	R			P	R	R	R		R					R		P	
Communication	P	P	R	R	R	P	P	P	R	P	P	R	P	P	P	R	R	P
Cultural Competence	P	P				R		R		R					R			
Clinical Reasoning					P	P	P	P	R		P	R	P	P	P	P	P	P
Evidence-based Practice			R		P	R	R	P	R		P	R	P	P	P	P	P	P
Education	P	P				P	P	P		P	R		P	P	P	P		P
Screening	R	R	R	R		P	P	P			P		P	P	P			R
Examination	R		R	R	R	P	P	P			P		P	P	P	P		R
Evaluation	R		R	R	R	P	P	P			P		P	P	P			R
Diagnosis	R		R	R	R		R	P			P		P	P	P			R
Prognosis	R				R		R	P			P		P	P	P			R
Plan of Care	R				R	P	P	P			P		P	P	P			P
Intervention	R	R			R	P	P	P		P	P		P	P	P			P
Outcomes Assessment	R	R			P	R	R	P		P	P		P	P	P			P
Prevention, Health Promotion, Fitness, Wellness	R	R								P	P						P	
Management of Care Delivery																		
Practice Management																		
Consultation																		
Social Responsibility and Advocacy	R	P								P								

DPT Core Competencies Year 2	Learning Experiences																	
	PHT 6771	PHT 6381C	PHT 6070C	PHT 6861	PHT 6761C	PHT 6302C	PHT 6762C	PHT 6527	PHT 6190C	PHT 6322	PHT 6702C	PHT 6730	PHT 6770	PHT 6218C	PHT 6860	PHT 6608	PHT 6352	PHT 6186C
Accountability	R	R		P	P	P		P	P	P		P	R	R	P		P	
Altruism				R	P			P	P			P			R			
Compassion/Learning					P		P	P	P		P	P						
Integrity		R		R	P	P		P	P	P		P			R		P	
Professional Duty				R	R	P		P	R	P		P			R		P	
Communication	P	P	R	P	P	P	P	P	P	P	P	P	P	P	P	R	R	P
Cultural Competence				R	R	R	P	P	R	R	P	P			R			
Clinical Reasoning	P	P	P	P	P		P	P	P		P	P	P	P	P	P	P	P
Evidence-based Practice	P	P	P	P	P			P	P			P	P	P	P	P	P	P
Education	P	P		P	P			P	P			P	P	P	P	P		P
Screening	P	P		P	P			P	P			P	P	P	P			R
Examination	P	P	P	P	P			P	P			P	P	P	P	P		R
Evaluation	P	P	P	P	P			P	P			P	P	P	P			R
Diagnosis	P	P	P	P	P			P	P			P	P	P	P			R
Prognosis	P	P	P	P	P			P	P			P	P	P	P			R
Plan of Care	P	P		P	P			P	P			P	P	P	P			P
Intervention	P	P		P	P			P	P			P	P	P	P			P
Outcomes Assessment	P	P		P	P	R		P	P	R		P	P	P	P			P
Prevention, Health Promotion, Fitness, Wellness		R			R	P	P	R	R	P	P	R					P	
Management of Care Delivery		P	P	R	R	P	R	P	R	P	R	P						
Practice Management						P		P		P		P						
Consultation						P		R		P		R						
Social Responsibility and Advocacy				R	R	P	R	R	R	P	R	R						

DPT Core Competencies Year 3	Learning Experiences					
	PHT 6807	PHT 6817	PHT 6823	PHT 6504	PHT 6530	PHT 6609
Accountability	P	P	P	P	P	P
Altruism	P	P	P	P	P	
Compassion/Learning	P	P	P	P	P	
Integrity	P	P	P	P	P	
Professional Duty	P	P	P	P	P	
Communication	P	P	P	P	P	P
Cultural Competence	P	P	P	P	P	
Clinical Reasoning	P	P	P			P
Evidence-based Practice	P	P	P	P		P
Education	P	P	P	P		P
Screening	P	P	P	R		P
Examination	P	P	P	R		P
Evaluation	P	P	P	R		P
Diagnosis	P	P	P	R		P
Prognosis	P	P	P	R		P
Plan of Care	P	P	P	R		P
Intervention	P	P	P	R		P
Outcomes Assessment	P	P	P	R		P
Prevention, Health Promotion, Fitness, Wellness	R	R	R	P		
Management of Care Delivery	P	P	P	P	P	
Practice Management	P	P	P	R	P	
Consultation	R	R				
Social Responsibility and Advocacy	R	R				

2.6.c Competencies

Courses:

Year 1

PHT 6024	Professional Issues I
PHT 6502	Health Promotion and Wellness for PT Practice I
PHT 6935C	Physiology
PHT 6187C	Functional Anatomy I
PHT 6605	Evidence-Based Practice I
PHT 6206C	Basic Clinical Skills I
PHT 6188C	Functional Anatomy II
PHT 6168C	Neuroscience in Physical Therapy
PHT 6503	Health promotion and Wellness for PT Practice II
PHT 6207C	Basic Clinical Skills II
PHT 6152C	Exercise Physiology
PHT 6770	Musculoskeletal Disorders I
PHT 6218C	Therapeutic Modality Interventions in PT
PHT 6860	Clinical Education I
PHT6608	Evidence-based Practice II
PHT 6352	Pharmacology in PT Practice
PHT 6186C	Motor Control/Therapeutic Exercise I

Year 2

PHT 6771	Musculoskeletal Disorders II
PHT 6381C	Cardiopulmonary Disorders in PT
PHT 6070C	Radiology & Diagnostic Imaging in PT Practice
PHT 6861	Clinical Education II
PHT 6761C	Neurorehabilitation I
PHT 6302C	Principles of Disease
PHT 6762C	Neurorehabilitation II
PHT 6527	Professional Issues II
PHT 6374	Geriatrics in PT
PHT 6805	Clinical Education III
PHT 6190C	Motor Control/Therapeutic Exercise II
PHT 6322	Pediatrics in PT
PHT6702C	Prosthetics and Orthotics
PHT 6730	Differential Diagnosis in PT I

Year 3

PHT 6807	Clinical Education IV
PHT 6817	Clinical Education V
PHT 6823	Clinical Education VI
PHT 6504	Health Promotion and Wellness for PT Practice III
PHT 6530	Professional Issues III
PHT 6609	Evidence-based Practice III