Program-Level Assessment Plan



Program: Health Outcomes Research	Degree Level (e.g., UG or GR certificate, UG major, master's program, doctoral program): Doctoral (PhD)
Department: Health and Clinical Outcomes	College/School: School of Medicine
Research (HCOR)	
Date (Month/Year): Sep 2021	Primary Assessment Contact: Paula Buchanan

Note: Each cell in the table below will expand as needed to accommodate your responses.

#	Student Learning Outcomes	Curriculum Mapping	Assessment Methods	
	What do the program faculty expect all students to know or be able to do as a result of completing this program? Note: These should be measurable and manageable in number (typically 4-6 are sufficient).	In which courses will faculty intentionally work to foster some level of student development toward achievement of the outcome? Please clarify the level at which student development is expected in each course (e.g., introduced, developed, reinforced, achieved, etc.).	 Artifacts of Student Learning (What) 1. What artifacts of student learning will be used to determine if students have achieved this outcome? 2. In which courses will these artifacts be collected? 	 Evaluation Process (How) 1. What process will be used to evaluate the artifacts, and by whom? 2. What tools(s) (e.g., a rubric) will be used in the process? Note: Please include any rubrics as part of the submitted plan documents.
1	Effectively review, summarize, and synthesize literature related to clinical aspects of health outcomes.	 ORES 5300: Foundations of Outcomes Research I (Introduced and Developed) ORES 5320: Scientific Writing and Communication (Introduced and Developed) PhD Written Examination (Reinforced and Achieved) PhD Oral Examination (Reinforced and Achieved) PhD Dissertation (Achieved) 	 We will utilize the final paper from ORES 5300: Foundations of Outcomes Research I. We will utilize PhD Dissertation- Chapters 1 and 2 (Introduction and Background Literature) 	 The selected artifact from a minimum of 5 students up to a maximum of 10% of the students in each course will be assessed by 2 faculty members of the department. If there is a disagreement, a 3rd faculty member will be brought in to assess the artifact. We will use the attached rubric to assess the artifacts selected.
2	Critically evaluate clinical aspects and healthcare- specific methodological designs.	 ORES 5430: Health Outcomes Measurement (Introduced and Developed) ORES 5300: Foundations of Outcomes Research I (Introduced and Developed) 	 We will utilize the final paper from ORES 5300: Foundations of Outcomes Research I. We will utilize the final paper project from ORES 5210: 	 The selected artifact from a minimum of 5 students up to a maximum of 10% of the students in each course will be assessed by 2 faculty members

	 ORES 5260: Pharmacoepidemiology (Reinforced) ORES 5400: Pharmacoeconomics (Reinforced) ORES 5210: Foundations of Medical Diagnosis and Treatment (Reinforced) PhD Written Examination (Reinforced and Achieved) PhD Oral Examination (Reinforced and Achieved) PhD Dissertation (Achieved) 	Foundations of Medical Diagnosis and Treatment. 3. We will utilize PhD Dissertation- Chapter 3 (Methodology)	of the department. If there is a disagreement, a 3 rd faculty member will be brought in to assess the artifact. 2. We will use the attached rubric to assess the artifacts selected.
3 Apply appropriate data management strategies related to clinical aspects of health outcomes.	 ORES 5430: Health Outcomes Measurement (Introduced, Developed, and Reinforced) ORES 5010: Introduction to Biostatistics for Health Outcomes (Introduced) ORES 5160: Data Management (Introduced, Developed, and Reinforced) HDS 5310: Analytics and Statistical Programming (Introduced) ORES 5150: Multivariate Data Analysis (Developed and Reinforced) HDS 5320: Inferential Modeling (Developed and Reinforced) PhD Written Examination (Reinforced and Achieved) PhD Oral Examination (Reinforced and Achieved) PhD Dissertation (Achieved) 	 We will utilize the Assignment 2 from ORES 5150: Multivariate Data Analysis or final exam of HDS 5320 Inferential Modeling We will utilize the final project ORES 5160: Data Management. We will utilize PhD Written exam. 	 The selected artifact from a minimum of 5 students up to a maximum of 10% of the students in each course will be assessed by 2 faculty members of the department. If there is a disagreement, a 3rd faculty member will be brought in to assess the artifact. We will use the attached rubric to assess the artifacts selected.

4	Effectively communicate study results related to clinical aspects of health outcomes.	 ORES 5430: Health Outcomes Measurement (Introduced and Developed) ORES 5320: Scientific Writing and Communication (Introduced and Developed) ORES 5150: Multivariate Data Analysis (Reinforced) HDS 5320: Inferential Modeling (Reinforced) PhD Written Examination (Reinforced and Achieved) PhD Oral Examination (Reinforced and Achieved) PhD Dissertation (Achieved) 	 We will utilize ORES 5320: Scientific Writing and Communication final paper. We will utilize PhD Dissertation- Chapters 4 and 5 (Results and Discussion). The selected artifact from a minimum of 5 students up to a maximum of 10% of the students in each course will be assessed by 2 faculty members of the department. If there is a disagreement, a 3rd faculty member will be brought in to assess the artifact. We will use the attached rubric to assess the artifacts selected.
5	Demonstrate a thorough and ethical approach to conducting academic research.	 ORES 5300: Foundations of Outcomes Research I (Introduced and Developed) HCE 5330: Research Ethics (Elective) (Introduced and Developed) PhD Written Examination (Reinforced and Achieved) PhD Oral Examination (Reinforced and Achieved) PhD Dissertation (Achieved) 	 We will utilize the scores obtained from the CITI training (related to Institutional Review Board) assignment from ORES 5300: Foundations of Outcomes Research I The selected artifact from a minimum of 5 students up to a maximum of 10% of the students in each course will be assessed by 2 faculty members of the department. If there is a disagreement, a 3rd faculty member will be brought in to assess the artifact. We will use the attached rubric to assess the artifacts selected.

Use of Assessment Data

1. How and when will analyzed data be used by program faculty to make changes in pedagogy, curriculum design, and/or assessment practices?

At the end of each academic year, department faculty will score these artifacts using the rubric and use the data to make necessary changes. Results of these rubric evaluations will then be used by the curriculum committee. Assessments are used to identify problem areas and to make curricular changes across all courses to ensure student proficiency in all core areas. Curricular changes are documented and results of assessments and changes to curriculum are reported back to HCOR faculty.

2. How and when will the program faculty evaluate the impact of assessment-informed changes made in previous years?

Results of the assessment done after informed changes have been made will be compared to the assessment of the same outcomes prior to the changes. If no or minimal improvement in performance is detected additional changes to the curriculum will be made.

Additional Questions

1. On what schedule/cycle will program faculty assess each of the program's student learning outcomes? (Please note: It is <u>not recommended</u> to try to assess every outcome every year.)

We will assess program learning outcomes 1, 2, and 3 in one year, and then outcomes 4 and 5 the following year.

2. Describe how, and the extent to which, program faculty contributed to the development of this plan.

The HCOR curriculum committee developed this plan which was presented to other department faculty members for suggested changes and approval.

IMPORTANT: Please remember to submit any rubrics or other assessment tools along with this plan.

#	Program Learning Outcomes	High Mastery (3)	Average Mastery (2)	Low Mastery (1)
1	Effectively review, summarize, and synthesize literature related to clinical aspects of health outcomes.	 Uses sufficient and appropriate primary resources to describe/explain theoretical assumptions that contextualize the research question Uses sufficient and appropriate primary resources to develop background or context for research question Culminates with a clearly stated purpose/ research question Theoretical background and contextual information flow seamlessly into a well stated research question that has potential to add to the professional knowledge base and is of publishable quality. 	 Cites two or more primary sources to set up theoretical assumptions and develop background for research question Research question is stated with clear and sufficient scope and focus 	 No introduction or contextual information for research question Insufficient primary resources There is no clearly stated research question Question does not have appropriate scope or focus

Program Assessment Rubric: PhD in Health Outcomes Research

4	Effectively communicate	Results are aligned with	• Links results to question	Results are correct but
	study results related	question and theory	and theory	not robust
	to clinical aspects of health	Sees complex patterns in	 Substantiates the results 	 Includes extraneous
	outcomes.	the data	 Provides plausible 	information and material
		 Iteratively explores 	arguments and	 Has difficulty making
		questions raised by	explanations	sense of data
		analyses		 Interpretation is too
		• Results are usable,		simplistic
		meaningful, and		 Data are wrong,
		unambiguous		insufficient, fudged,
		Presents data clearly and		fabricated, or falsified
		cleverly		Data or evidence do not
		Makes proper inferences		support the theory or
		Provides plausible		argument
		interpretations		 Interpretation is too
		Refutes or disproves prior		simplistic, and not
		theories or finding		objective, cogent, or
				inferences
				Overstates the results
5	Demonstrate a thorough and	Utilize appropriate ethical	Most ethical policies and	Does not demonstrate a
	ethical approach to	approach to conducting	procedures demonstrated	thorough ethical
	conducting academic	research	through research studies	approach to research
	research.	Clearly follows		studies
		instructions set by Saint		
		Louis University		
		Institutional Review		
		Board		
		Clearly describes study		
		procedures for IRB		
		proposal submission		