Program-Level Assessment: Annual Report

Program Name (no acronyms): Psychometrics & Medicine

Date (Month/Year): 11/2023

Assessment Contact: Dr. Divya Subramaniam and Dr. Paula Buchanan

In what year was the data upon which this report is based collected? Fall 2022-Summer 2023

In what year was the program's assessment plan most recently reviewed/updated? Fall 2021-Summer 2022

Is this program accredited by an external program/disciplinary/specialized accrediting organization or subject to state/licensure requirements? NO

If yes, please share how this affects the program's assessment process (e.g., number of learning outcomes assessed, mandated exams or other assessment methods, schedule or timing of assessment, etc.):

1. **Student Learning Outcomes**
   Which of the program's student learning outcomes were assessed in this annual assessment cycle? (Please provide the complete list of the program's learning outcome statements and **bold** the SLOs assessed in this cycle.)

Outcome 1: Identify and define an analytic/operational question.

Outcome 2: Apply appropriate statistical methods.

Outcome 3: Apply appropriate data management strategies.

Outcome 4:

Policy. The students are required to pick a policy critique (organization structure, financing, etc.) to write a sustainable recommendation and support that with scholarly references and data.

2. We will utilize the final brief report from HDS 5960 Capstone. The capstone project entails the amalgamation of the skills and knowledge gained from the program. The capstone is a project that students complete from start to finish with the guidance from the organization preceptor and faculty from the department. The report is a detailed report of the introduction, methods, results and discussion of their project.

Outcome 6: Effectively communicate results of analyses.

1. We will utilize the final project HDS 5330 Predictive Modeling and Machine Learning. The final project for HDS 5330 was a group project where they had to analyze and report the results of a health research question. The students submitted a power point presentation of their project.

2. We will utilize the final brief report from HDS 5960 Capstone. The capstone project entails the amalgamation of the skills and knowledge gained from the program. The capstone is a project that students complete from start to finish with the guidance from the organization preceptor and faculty from the department. The report is a detailed report of the introduction, methods, results and discussion of their project.

3. **Assessment Methods: Evaluation Process**
   What process was used to evaluate the artifacts of student learning, and by whom? Please identify the tools(s) (e.g., a rubric) used in the process and **include them in/with this report document** (please do not just refer to the assessment plan).

The selected artifacts from a maximum of: 10% of the students (for

7. Closing the Loop: Review of <u>Previous</u> Assessment Findings and Changes

A. What is at least one change your program has implemented in recent years **as a result of previous assessment data**?

Building on the valuable insights gained from our previous assessment feedback, we have conducted a thorough review of our data reporting methodologies and results presentation. This scrutiny has prompted us to initiate substantial changes in both our program structure and curriculum sequencing. Recognizing the importance of continuous improvement, we are dedicated to refining the way we convey data and outcomes. This involves not only enhancing the clarity and transparency of our reporting but also making strategic adjustments to the program framework. The upcoming modifications in curriculum sequencing aim to provide a more seamless and logically progressive learning experience for our students. We are committed to incorporating best practices, leveraging innovative teaching methodologies, and ensuring that our program remains at the forefront of educational excellence. Through these endeavors, we aspire to fortify the overall quality and effectiveness of our educational offerings.

B. How has the change/have these changes identified in 7A been assessed?

N/A

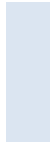**C.** What were the findings of the assessment?

N/A

D. How do you plan to (continue to) use this information moving forward?

N/A

IMPORTANT: Please submit any assessment tools (e.g.,

MS in Health Data Science Program Assessment Rubric

| | ( )1 | Low Mastery (0) |

| 5 | Understand the organization and financing of healthcare, and resulting datasets | • Utilizes datasets correctly
• Utilizes codes appropriately
• Provides necessary historical and background information on your issue
• Includes data that are most important for your audience
• Presents different sides of controversial issues, if any
• States current state of law or policy
• Includes data or information that is necessary to the reader's understanding
• Presents necessary data in best format (text, bar graph, line graphs, etc.)
• States the policy recommendation that you support
• Provides information in favor of the policy option you support
• Anticipates and rebuts arguments against likely to be raised against your recommended policy option | • Utilizes datasets minimally
• Utilizes m ts |

		• Results are usable, meaningful, and unambiguous • Presents data clearly and cleverly • Makes proper inferences • Provides plausible interpretations • Refutes or disproves prior theories or finding		• Interpretation is too simplistic • Data are wrong, insufficient, fudged, fabricated, or falsified • Data or evidence do not support the theory or argument • Interpretation is too simplistic, and not objective, cogent, or inferences • Overstates the results