

# HEALTH DATA SCIENCE GRADUATE PATHWAY

Saint Louis University's Health Data Science Graduate Pathway prepares students to enter the next semester of the Master of Science in Health Data Science (<https://catalog.slu.edu/colleges-schools/medicine/health-outcomes-research/health-data-science-ms/>) degree program. Upon successfully completing the graduate pathway program and meeting SLU's requirements for matriculation, students may enter the next semester of graduate study.

## Program Entry Requirements Accelerated Pathway (One-semester Program)

- Undergraduate degree or equivalent in mathematics, statistics, computer science, biology or a closely related field
- 2.75 GPA on a 4.0 scale
- Previous coursework in calculus, computer science and/or statistics
- Current resume
- Language requirement (one of the following):
  - TOEFL iBT 75 (17+ subscores in reading and writing)
  - IELTS 6.0 (6.0+ subscores in reading and writing)
  - PTEA 50
  - Duolingo 105

## Standard Pathway (Two-semester Program)

- Undergraduate degree or equivalent in mathematics, statistics, computer science, biology or a closely related field
- 2.75 GPA on a 4.0 scale
- Previous coursework in calculus, computer science and/or statistics
- Current resume
- Language requirement (one of the following):
  - TOEFL iBT 70 (13+ subscores in reading and writing)
  - IELTS 6.0 (5.5+ subscores in reading and writing)
  - PTEA 48
  - Duolingo 95

## Learning Outcomes

1. Students will be able to execute a variety of verbal tasks in academic settings using English that can be understood by those unaccustomed to non-native speakers.
2. Students will be able to execute a variety of written tasks in academic settings using English that can be understood by those unaccustomed to non-native writers.
3. Students will be able to apply a process-driven approach to completing verbal and written academic assignments in multiple disciplines and modes.
4. Students will be able to deploy reflective and self-regulated learning strategies.

## Requirements One-semester (Accelerated) Pathway

Code	Title	Credits
<b>Required Courses</b>		
EAP 4200	Advanced Reading and Writing as Researchers for International Graduate Students	3
EAP 4250	Advanced Listening and Speaking for International Graduate Students II	2
HDS 5210 or HDS 5310	Programming for Health Data Scientists Analytics, Statistics & Visualization Methods in Health Data Science	3
ORES 5160 or ORES 5300	Data Management and Programming in Healthcare Foundations of Health Outcomes Research	3
<b>Total Credits</b>		<b>11</b>

## Two-semester (Standard) Pathway

Code	Title	Credits
<b>Required Courses</b>		
EAP 4100	Introduction to Reading and Writing for International Graduate Students I	3
EAP 4150	Listening and Speaking for International Graduate Students I	2
EAP 4200	Advanced Reading and Writing as Researchers for International Graduate Students	3
EAP 4250	Advanced Listening and Speaking for International Graduate Students II	2
HDS 5210	Programming for Health Data Scientists	3
HDS 5310	Analytics, Statistics & Visualization Methods in Health Data Science	3
ORES 5160	Data Management and Programming in Healthcare	3
ORES 5300	Foundations of Health Outcomes Research	3
<b>Total Credits</b>		<b>22</b>

## Continuation Standards

- Minimum of 3.00 cumulative SLU GPA
- Grade of "B" or better in classes counting toward the degree
- No C-/D/F/W/I/P/NP/S/U grades

## Progression Requirements

- Minimum of 3.00 cumulative SLU GPA
- Grade of "B" or better in classes counting toward the degree
- No C-/D/F/W/I/P/NP/S/U grades
- Successful completion of program portfolio

## Roadmap

Roadmaps are recommended semester-by-semester plans of study for programs and assume full-time enrollment unless otherwise noted.

Courses and milestones designated as critical (marked with !) must be completed in the semester listed to ensure a timely graduation. Transfer credit may change the roadmap.

This roadmap should not be used in the place of regular academic advising appointments. All students are encouraged to meet with their advisor/mentor each semester. Requirements, course availability and sequencing are subject to change.

## One-semester (Accelerated) Pathway

Course	Title	Credits
<b>Year One</b>		
<b>Fall</b>		
EAP 4200	Advanced Reading and Writing as Researchers for International Graduate Students	3
EAP 4250	Advanced Listening and Speaking for International Graduate Students II	2
HDS 5210 or HDS 5310	Programming for Health Data Scientists or Analytics, Statistics & Visualization Methods in Health Data Science	3
ORES 5160 or ORES 5300	Data Management and Programming in Healthcare or Foundations of Health Outcomes Research	3
<b>Credits</b>		<b>11</b>
<b>Total Credits</b>		<b>11</b>

## Two-semester (Standard) Pathway

Course	Title	Credits
<b>Year One</b>		
<b>Fall</b>		
EAP 4100	Introduction to Reading and Writing for International Graduate Students I	3
EAP 4150	Listening and Speaking for International Graduate Students I	2
HDS 5310	Analytics, Statistics & Visualization Methods in Health Data Science	3
ORES 5300	Foundations of Health Outcomes Research	3
<b>Credits</b>		<b>11</b>
<b>Spring</b>		
EAP 4200	Advanced Reading and Writing as Researchers for International Graduate Students	3
EAP 4250	Advanced Listening and Speaking for International Graduate Students II	2
HDS 5210	Programming for Health Data Scientists	3
ORES 5160	Data Management and Programming in Healthcare	3
<b>Credits</b>		<b>11</b>
<b>Total Credits</b>		<b>22</b>