

# Health Data Analytics

## Program Requirements

### General Education Requirements

CIVC 101	Introduction to Civic Engagement	1.0
COM 320 [WI]	Science Writing	3.0
COOP 101	Career Management and Professional Development *	1.0
ENGL 101	Composition and Rhetoric I: Inquiry and Exploratory Research	3.0
ENGL 102	Composition and Rhetoric II: Advanced Research and Evidence-Based Writing	3.0
ENGL 103	Composition and Rhetoric III: Themes and Genres	3.0
SOC 101	Introduction to Sociology	3.0
UNIV PH101	The Drexel Experience	1.0

### Biology Sequence \*\*

Students must select one of the following biology sequences:

BIO 107 & BIO 108	Cells, Genetics & Physiology and Cells, Genetics and Physiology Laboratory	12.0
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Or

BIO 131 & BIO 132 & BIO 133	Cells and Biomolecules and Genetics and Evolution and Physiology and Ecology	
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### Math Requirements

MATH 121	Calculus I	4.0
MATH 122	Calculus II	4.0
MATH 200	Multivariate Calculus	4.0
MATH 201	Linear Algebra	4.0

### Info Requirements

INFO 103	Introduction to Data Science	3.0
INFO 202	Data Curation	3.0
INFO 250	Information Visualization	3.0
INFO 332	Exploratory Data Analytics	3.0
INFO 371	Data Mining Applications	3.0

### Core Course Requirements

PBHL 101	Public Health 101	3.0
PBHL 210	Biostatistics I	4.0
PBHL 211	Biostatistics II	3.0
PBHL 215	Introduction to Clinical Research	3.0
PBHL 301	Epidemiology in Public Health	3.0
PBHL 335	Applied Quantitative Research Methods	3.0
PBHL 340	Advanced Biostatistical Analysis	3.0
PBHL 400	Introduction to Statistical Inference	4.0
PBHL 401	Introduction to Public Health	0.0
PBHL 453	Longitudinal Data Analysis	3.0
PBHL 455	Introduction to Statistical Computing	3.0
PBHL 459	Survival Data Analysis	3.0
PBHL 495	Health Data Analytics Capstone	3.0

### Science Selectives

Students select from: ANAT, BIO, CHEM, ENVS, FDSC, HSCI, NFS, PHEV, PHYS 100-499. Additional courses from other departments may be considered with program approval.

### CCI/MATH Selectives

Students select from: CI, CS, CT, DSCI, INFO, MATH, SE, STAT 100-499

### Social Sciences, Arts, and Humanities Selectives

Students select from: AFAS, ANTH, ARBC, ARCH, ARTH, CHIN, CJS, CMGT, COM, CULA, DANC, EDEX, EDUC, ESTM, FASH, FMST, FREN, GER, GST, HIST, INTR, ITAL, JAPN, JWST, KOR, LING, MUSC, PHIL, PHTO, PSCI, PSY, SOC, SPAN, THTR, VSOC, VSST, WGST, WRIT 100-499; ANIM 140, ANIM 141, ANIM 211, ANIM 212, ENGL 200-499, GMAP 260

### Public Health Selectives

Students select from PBHL 100-499

Free Electives	33.0
<b>Total Credits</b>	<b>180.0</b>

\* Co-op cycles may vary. Students are assigned a co-op cycle (fall/winter, spring/summer, summer-only) based on their co-op program (4-year, 5-year) and major.

COOP 101 registration is determined by the co-op cycle assigned and may be scheduled in a different term. Select students may be eligible to take COOP 001 in place of COOP 101.

\*\* Students who take the BIO 107 and BIO 108 sequence will take 41.0 free elective credits.

## Sample Plan of Study

### 4 year, 1 co-op

#### First Year

Fall	Credits Winter	Credits Spring	Credits Summer	Credits
BIO 131*	4.0 BIO 132*	4.0 BIO 133*	4.0 VACATION	
ENGL 101	3.0 CIVC 101	1.0 ENGL 103	3.0	
MATH 121	4.0 ENGL 102	3.0 INFO 103	3.0	
PBHL 101	3.0 MATH 122	4.0 MATH 200	4.0	
UNIV PH101	1.0 Free Electives	3.0 PBHL 301	3.0	
	<b>15</b>	<b>15</b>	<b>17</b>	<b>0</b>

#### Second Year

Fall	Credits Winter	Credits Spring	Credits Summer	Credits
PBHL 210	4.0 PBHL 211	3.0 COM 320	3.0 COOP 101**	1.0
PBHL 455	3.0 MATH 201	4.0 INFO 202	3.0 INFO 332	3.0
CCI/MATH Selectives	3.0 SOC 101	3.0 PBHL 215	3.0 Free Electives	3.0
Public Health Selectives	3.0 Public Health Selectives	3.0 PBHL 335	3.0 Public Health Selectives	3.0
Science Selectives	3.0 Science Selectives	3.0 Science Selectives	3.0 Science Selectives	6.0
	<b>16</b>	<b>16</b>	<b>15</b>	<b>16</b>

#### Third Year

Fall	Credits Winter	Credits Spring	Credits Summer	Credits
INFO 250	3.0 INFO 371	3.0 COOP EXPERIENCE	COOP EXPERIENCE	
PBHL 400	4.0 PBHL 453	3.0		
PBHL 459	3.0 Free Electives	3.0		
Free Electives	6.0 Science Selectives	3.0		
		3.0 Social Science/ Arts and Humanities Selectives		
	<b>16</b>	<b>15</b>	<b>0</b>	<b>0</b>

#### Fourth Year

Fall	Credits Winter	Credits Spring	Credits
PBHL 340	3.0 Free Electives	9.0 PBHL 495	3.0
PBHL 401	0.0 CCI/MATH Selectives	3.0 Free Electives	6.0
CCI/MATH Selectives	3.0	Social Science/ Arts and Humanities Selectives	3.0

Free Electives	3.0		
Social Science/ Arts and Humanities Selectives	6.0		
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	15	12	12

**Total Credits 180**

\* Students who take the BIO 107 and BIO 108 sequence will take 41.0 free elective credits.

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COOP 101 registration is determined by the co-op cycle assigned and may be scheduled in a different term. Select students may be eligible to take COOP 001 in place of COOP 101.