



University of New Hampshire

Health Data Science

	Foundations	1st & 2nd eTerms				3rd & 4th eTerms				5th & 6th eTerms				Focus Elective Courses			
	Pre-Program Skills	HDS 800: Health Statistics	HDS 801: US Health Systems	HDS 802: Programming	HDS 803: Translation & Visualization	HDS 804: Health Data Sysetms	HDS 805: Applied Machine Learning	HDS 807: Unstructured Health Data	HDS 806: Outcomes Research	HDS 808: Current Topics	HDS 811: Health Data Science In Practice Pt I	Focus Elective 1	Focus Elective 2	HDS 823: Advanced Statistics for HDS	HDS 822: Deep Learning and AI	HDS 821: Big Data Systems	HDS 820: Health Care Informatics
Mathematics & Statistics																	
Probability	X	X					X		X								
Inference	X	X					X		X								
Imputation		X		X	X		X		X								
Experiments		X					X		X								
Modelling		X					X		X					X	X		
Time Series		X					X		X					X			
Forecasting		X					X		X					X			
Programming Environs																	
Python				X		X	X	X						X	X	X	X
R				X	X	X	X	X						X	X		X
SAS				X													
JMP	X	X		X													
SQL	X			X	X	X		X						X		X	X
Machine Learning																	
Text Mining								X									
Neural Netwoks							X										
Deep Learning																	
Computation																	
Databases				X	X	X		X						X	X		X
Streaming data					X	X		X						X		X	X
Visualization Tools																	
Storytelling					X				X	X							
Tableau / Power BI					X				X								X
R / Python applications					X				X					X		X	X
GIS / QGIS					X				X					X			
Design Thinking					X				X	X							X
Research Methods									X	X				X			
Health Care Systems			X		X				X	X							X
Ethics & Governance			X		X				X	X							X
Professional Skills					X					X							