

## Domestic/StudentAid BC

## **Data Engineering and Analytics with Co-op**

Semester 1 (14 weeks)				
Course Title	Hours			
Information Systems Management	60			
Introduction to Linux Systems Administration	60			
Introduction to Data Structures, Design and Analysis	60			
Probability and Statistics Fundamentals	60			
Total				
Semester Break (3 weeks)				
Semester 2 (14 weeks)				
Course Title	Hours			
Relational Database Systems and SQL	60			
Business Analysis and System Design	60			
Statistics for Data Analysis	60			
Visual Analysis for Business Intelligence (BI) with Tableau	60			
	240			
	Course Title Information Systems Management Introduction to Linux Systems Administration Introduction to Data Structures, Design and Analysis Probability and Statistics Fundamentals  Semester Break (3 weeks)  4 weeks)  Course Title Relational Database Systems and SQL Business Analysis and System Design Statistics for Data Analysis Visual Analysis for Business Intelligence (BI)			

Course Code	Course Title	Hours		
ISM103	Relational Database Systems and SQL	60		
DEA105	Business Analysis and System Design	60		
DEA107	Statistics for Data Analysis	60		
DEA111	Visual Analysis for Business Intelligence (BI) with Tableau	60		
Total		240		
Semester Break (3 weeks)				
Semester 3 (14 weeks)				
Course Code	Course Title	Hours		
Course Code DEA108	Course Title  Applied Multivariate Statistical Analysis	Hours 60		
DEA108	Applied Multivariate Statistical Analysis	60		
DEA108	Applied Multivariate Statistical Analysis  Machine Learning	60		
DEA108 DEA109 DEA110	Applied Multivariate Statistical Analysis  Machine Learning  Data Warehouse (EDW Concepts)  Business Intelligence (BI) with SSIS, SSAS	60 60 60		
DEA108 DEA109 DEA110 DEA112	Applied Multivariate Statistical Analysis  Machine Learning  Data Warehouse (EDW Concepts)  Business Intelligence (BI) with SSIS, SSAS	60 60 60 60		

Semester 4 (14 weeks)				
Course Code	Course Title	Hours		
DEA113	Advanced Topics in Data Analysis, Big Data, Data Mining and Cloud Computing	60		
DEA114	Security and Privacy Issues in Data Analytics	60		
EPT400	Employment Preparation Training	60		
Total		180		
Semester Break (3 weeks)				
Semester 5 (14 weeks)				
Course Code	Course Title	Hours		
DEA497	Co-op Term 1	450		
Total		450		
Semester Break (3 weeks)				
Semester 6 (14 weeks)				
Course Code	Course Title	Hours		
DEA498	Co-op Term 2	450		
Total		450		