

**Data Science Technology**  
**Associate in Science Degree | Program: 2181 | 60 credits**  
**CIP # 1530700100**

**Course Sequence Guide for Full-Time Enrollment**

SEMESTER	Course ID	Course Title	Credits	Pre/Corequisites
Semester 1	ENC1101	College Composition	3	Prerequisite: Course, placement, or eligible exemption
	MAC1105	College Algebra	3	Prerequisite: Course, placement, or eligible exemption
	Social Science	Any Social Science State Core group 2	3	Prerequisite: Course, placement, or eligible exemption
	CGS1309	Computer and Information Technology Concepts	3	
	<b>Total Credits</b>		<b>12</b>	
Semester 2	MAC1140	Precalculus Algebra	3	Prerequisite: MAC1105
	CGS1060	Computer and Internet Literacy	3	Prerequisite: Course, placement, or eligible exemption
	COP1000	Programming Concepts	3	Prerequisite: Course, placement, or eligible exemption
	CGS2517	Spreadsheets for Business	3	
	<b>Total Credits</b>		<b>12</b>	
Semester 3	STA2023	Introductory Statistics	3	Prerequisite: MAT1033 or placement score
	IDC2114	Data Visualization Techniques	3	Prerequisite: CGS2517
	CTS2433	SQL Database Design and Programming	3	Prerequisite: COP1000
	PHI2600	Ethics	3	Prerequisite: completion of general education communications
	<b>Total Credits</b>		<b>12</b>	
Semester 4	COP1044	Introduction to Data Science Using Python	3	Prerequisite: COP1000
	CTS2450	Introduction to Business Intelligence	3	Prerequisites: CTS2433 and IDC2114
	CTS2455	Data Modeling and Logical Design	3	Prerequisite: CTS2433
	STA2041	Data Analysis and Statistical Modeling	3	Prerequisites: STA2023 and COP1044
	<b>Total Credits</b>		<b>12</b>	
Semester 5	Science	Any Natural Science State Core	3	Prerequisite: Course, placement, or eligible exemption
	Humanities	Any Humanities State Core	3	Prerequisite: ENC1101
	CAP2762	Introduction to Data Mining	3	Prerequisite: CTS2450
	CIS2950	Data Science Capstone	3	Prerequisite: program permission
	<b>Total Credits</b>		<b>12</b>	
<b>PROGRAM TOTAL</b>			<b>60</b>	