PROGRAM NAME: **BS DEGREE in Analytics & Technology-Data Science & Analytics Track**

ROGRAM COLLEGE: **Helzberg School of Management**
CATALOG TERM: **2019-20**

As access to data continues to grow, companies are relying even more on data science and data analytics to make informed business decisions. Because of this, the field of data and analytics is one of the fastest growing and highest-paid sectors in the 21st century. Data science jobs are in great demand and a degree in analytics and technology from Rockhurst University equips students with the business intelligence skills to fill these challenging roles.

Students in the Data Science and Analytics track takes a deeper focus on the core science of data and statistics.

NOTE: Individual Programs of Study will vary in consultation with your Advisor and course/section availability each term. The below schedule serves only as an **example** four year degree plan.

YEAR 1
Fall Semester

Course Name	Credits	Minimum Grade Required	Experience Notes
Core: EN 1110 College Composition I (WCP)	3		• Join an RU Academy
Core/Prereq: MT 1800 Calculus I (MTP) (requires a 26 on Math Component of ACT)	4	C	• Participate in the Finucane Service Project
Prereq: *CS 1000 Programing for Analytics	3		• Attend the New Student Retreat
Core: PL 1100 Reality and Human Existence	3		
Core: Relational, Level 1	3		
General Elective: MG 1001 Professional Readiness I	1		
TOTAL HOURS	17		

Spring Semester

Course Name	Credits	Minimum Grade Required	Notes
Core: EN 1120 College Composition II (WCP)	3		• Join a campus club/organization (can be dept. specific)
Core: TH 1000 or 1020 or 2000 (TH, Level I)	3		
Prereq: BIA 1800 Data Analysis	3		
Prereq: *BIA 2000 Foundations of Business Intelligence	3		
Major: MT 1810 Calculus II	4	C	
TOTAL HOURS	16		

YEAR 2
Fall Semester

Course Name	Credits	Minimum Grade Required	Notes
Prereq: BSS 2100 Intro: Statistics for Behavioral Sciences	3		• Students want to have a Minimum of 60 hours completed, by the end of Year 2, to progress to Junior Standing.
Major: *BIA 3000 Data Visualization	3	C	
Major: *CS 3100 Data Structures	3	C	
Core: CT 2000 Fundamentals of Communication (OCP)	3		
Core: Natural Science with Lab (Science/Causal, Level I)	4		
TOTAL HOURS	16		

Spring Semester

Course Name	Credits	Minimum Grade Required	Notes
Major: *BIA 3200 Foundations of Data Mining	3	C	
Major: *CS 3000 Data Structures	3	C	
Core: Relational Mode, Level I	3		
Core: Literary Mode, Level I	3		
Core: Artistic Mode	3		
TOTAL HOURS	15		

YEAR 3
Fall Semester

Course Name	Credits	Minimum Grade Required	Notes
Major: *EN 3180 Business Writing (or Upper-Division Related course)	3	C	• **Courses with an * indicate that they are only offered in that semester, i.e., Fall or Spring.**
Major: MT 3400 Probability & Statistics (Fall/Even) (or Upper-Division Related Course)	3	C	
Core: Theological Mode, Level II (at least one TH must be Christian Based)	3		
Core: HS 1100 or 1500 or 1701 or 1702 (HS, Level 1)	3		
General Elective	6		
TOTAL HOURS	18		

Spring Semester

Course Name	Credits	Minimum Grade Required	Notes
Major: Upper-Division Related course (or MT 4420 Statistical Learning-Spring/Even)	3	C	• **Courses offered Fall/Spring, Even/Odd may have to be taken in the year before or after indicated.**
Core: PL 3100 Ethical Theory	3		
Core: Historical Mode or Literary Mode, Level II	3		
General Elective	6		
TOTAL HOURS	15		

Summer Semester

Course Name	Credits	Minimum Grade Required	Notes
Major: CO-OP	1	C	

YEAR 4
Fall Semester

Course Name	Credits	Minimum Grade Required	Notes
Major: Upper-Division Related course (or EN 3180 Business Writing)	3	C	• **Core: 53-56 hrs;**
Major: Upper-Division Related Course (or MT 3400 Probability & Statistics-Fall/Even)	3	C	• **Prerequisites: 12-16 hrs;**
Core: Relational Mode Level II	3		• **Major: 26 hrs;**
Core: GPR	3		• **Related Coursework: 12 hrs;**
General Elective	3		• **General Electives: 18-25 hrs.**
TOTAL HOURS	15		

Spring Semester

Course Name	Credits	Minimum Grade Required	Notes
Major: MT 4420 Statistical Learning (Spring/Even) (or Upper-Division Related course	3	C	
Major: Upper-Division Related Course	3	C	
Core: PL or TH Swing Course, Level II	3		
General Elective	6		
TOTAL HOURS	15		

Credit Hours

- **Core: 53-56 hrs;**
- **Prerequisites: 12-16 hrs;**
- **Major: 26 hrs;**
- **Related Coursework: 12 hrs;**
- **General Electives: 18-25 hrs.**

TOTAL Credit Hours: 128