

Eight-Semester Degree Plan Bachelor of Science in Data Science and Data Analytics 2024-2025

Data Analytics Track

i				Year 1			
	Fall Semester			Spring Semester			
Course No.	Course Name	Hrs	Gen Ed	Course No.	Course Name	Hrs	Gen Ed
ENG 1003	Composition I	3	х	ENG 1013	Comp II	3	х
MATH 1023	College Algebra	3	х	COMS 1203	Oral Communication	3	х
CS 1093 or any other FYE course	Making Connections Computer Science,	2-3		MATH 2143 MATH 2194	Choose one: Business Calculus Survey of Calculus	3-4	
CS 1013	Intro to Computers	3		CS 1114	Concepts of Programming	4	
HIST 2763 HIST 2773 POSC 2103	Choose one: US History to 1876 US History since 1876 Intro to US Government	3	х	HIST 1013/1023 SOC 2213 PSY 2013 POSC 1003	Choose one: Intro to Geography World Civ. to or since 1660 Intro to Sociology Intro to Psychology Intro to Politics Intro to Mass Communication	3	х
Total Hours:		14-15		Total Hours:		16-17	
				Year 2			
	Fall Semester						
Course No.	Course Name	Hrs	Gen Ed	Course No.	Course Name	Hrs	Gen Ed
BIOL 1033/ 1001 BIOL 1063/ 1001 BIO 1503/ 1501 BIO 2013/ 2011	Biological Science/ Lab Biology of Sex/ Lab People & Environment/ Lab Biology of Plants/ Lab Biology of the Cell/ Lab Microbio Nursing & Allied Health/ Lab Human Anatomy & Physiology I/ Lab	4	x	HIST 1013 HIST 1023 SOC 2213 PSY 2013	Choose one: Intro to Geography World Civ. to 1660 World Civ. Since 1660 Intro to Sociology Intro to Psychology Intro to Politics Intro to Mass Communication	3	x
GIS 3503	Geospatial Data Applications (DSDA 101)	3		Gen. Ed. CHEM 1013 / 1011 CHEM 1043 / 1041 GEOL 1003 / 1001 PHSC 1014	Choose one: General Chemistry I / Lab Fund. Concepts of Chemistry / Lab Environmental Geology / Lab Energy and the Environment Physical Science / Lab	4	х
GIS 5505				PHYS 1103 / 1101 PHYS 2034	Intro to Space Science / Lab University Physics I General Physics I		
Fine Arts: ART 2503 MUS 2503	Choose one: Fine Arts – Visual Fine Arts – Music Fine Arts - Theater	3	х	PHYS 1103 / 1101 PHYS 2034 PHYS 2054	University Physics I	4	
Fine Arts: ART 2503 MUS 2503 TEHA 2503 STAT 3233	Fine Arts – Visual Fine Arts – Music	3	х	PHYS 1103 / 1101 PHYS 2034 PHYS 2054	University Physics I General Physics I	4	
Fine Arts: ART 2503 MUS 2503 TEHA 2503	Fine Arts – Visual Fine Arts – Music Fine Arts - Theater		x	PHYS 1103 / 1101 PHYS 2034 PHYS 2054	University Physics I General Physics I Programming for Data Analysis		

				Year 3					
Fall Semester				Spring Semester					
Course No.	Course Name	Hrs	Gen Ed	Course No.	Course Name	Hrs	Gen Ed		
DATA 3003	Applied Database and Data Mining	3		STAT 3243	Regression Analysis and ANOVA	3			
	Domain studies course	3			Domain studies course	3			
STAT 3133	Applied Categorical Data Analysis	3			Domain studies course	3			
	Domain studies course	3		GIS 3543	Fundamentals of GIS/GPS	3			
	Domain studies course	3			Domain studies course	3			
DATA 3011	<u>Seminar</u>	1							
Total Hours:	Total Hours: 16				Total Hours: 15				
				Year 4					
Fall Semester				Spring Semester					
Course No.	Course Name	Hrs	Gen Ed	Course No.	Course Name	Hrs	Gen Ed		
DATA 4003	Fundamental Concepts in Design of Experiments	3		DATA 4013	Data Science and Data Analytics Capstone	3			
POSC 3003 STAT 4483 AGEC 4253	Choose one: Intro to Political Analysis Statistical Methods using R Agricultural & Environmental Data Science	3			Upper-level domain studies course	3			
DATA 3023	Data Visualization and Data Communication	3		PHIL 3723	Computers, Ethics, and Society	3			
	Domain studies course	3			Upper-level domain studies course	<mark>1-3</mark>			
	Upper-level domain studies course	3		DATA 303V	<u>Internship</u>	1			
Total Hours:			15	Total Hours:		11-13			
Total Upper-Level Hours:		45-47		Total Degree Hours:		120			

Students requiring developmental course work based on low entrance exam scores (ACT, SAT, ASSET, COMPASS) may not be able to complete this program of study in eight (8) semesters. Developmental courses do not count toward total degree hours. Students having completed college level courses prior to enrollment will be assisted by their advisor in making appropriate substitutions. In most cases, general education courses may be interchanged between semesters. A minimum of 45 hours of upper-level credit (3000-4000 level) is required for this degree. Mandatory state and institutional assessment exams will be required during your degree program. Failure to participate in required assessments may delay graduation.

<u>College coded Color Key for courses (not including Gen Ed)</u>

- College of Engineering and Computer Science
- **** There are seven new courses (numbered DATA XXXX) for a total of 18 credits**** (listed in italics)
- 2. College of Agriculture
- 3. College of Liberal Arts and Communication
- 4. College of Science and Mathematics
- 5. Domain studies courses: Domain studies will be proposed by the participating courses. Proposals will be submitted to the campus curricular process after mid-October.

Additional Graduation Requirements: