



ACADEMIC TENTATIVE DEGREE COMPLETION CHECKLIST

College of Science, Department of Physical Sciences & Mathematics

BS, Data Science - Machine Learning Track

Student Name _____	Banner ID _____
Catalog Year _____	Anticipated Graduation Date _____
Advisor _____	
Additional Comments: _____	

YEAR 1 WL	Semester 1 Fall	Hours	Semester 2 Spring	Hours
	<input type="checkbox"/> MATH 145 PRE-CALCULUS (GE)	4	<input type="checkbox"/> MATH 175 INTRODUCTION TO PROGRAMMING IN PYTHON	3
	<input type="checkbox"/> MATH 160 INTRODUCTION TO STATISTICS	3	<input type="checkbox"/> MATH 210 CALCULUS AND ANALYTIC GEOMETRY I	4
	<input type="checkbox"/> ENG 101 COLLEGE COMPOSITION I (GE)	3	<input type="checkbox"/> ENG 102 COLLEGE COMPOSITION II (GE)	3
	<input type="checkbox"/> HIST 210 HISTORY OF U.S. I, TO 1876 (GE)	3	<input type="checkbox"/> PHIL 210 LOGIC AND CRITICAL THINKING (GE)	3
	<input type="checkbox"/> COLL 101 FIRST YEAR EXPERIENCE	2	<input type="checkbox"/> MUS 130 MUSIC APPRECIATION (GE)	3
	Semester Hours:	15	Semester Hours:	16
Notes: General Education (GE) courses admit some flexibility; consult the University's academic catalog for details. MATH 145 Pre-Calculus (Fall semester, Year 1) is a prerequisite for MATH 210.				

YEAR 2 WL	Semester 1 Fall	Hours	Semester 2 Spring	Hours
	<input type="checkbox"/> MATH 205 FOUNDATIONS OF DATA SCIENCE	3	<input type="checkbox"/> MATH 212 CALCULUS AND ANALYTIC GEOMETRY III	4
	<input type="checkbox"/> MATH 211 CALCULUS AND ANALYTIC GEOMETRY II	4	<input type="checkbox"/> MATH 374 DISCRETE MATHEMATICS	3
	<input type="checkbox"/> MATH 220 DATA STRUCTURES AND ALGORITHMS	3	<input type="checkbox"/> MINOR CLASS 1	3
	<input type="checkbox"/> SPA 252 SIGN LANGUAGE I (GE)	3	<input type="checkbox"/> COM 101 FUNDAMENTALS OF ORAL COMMUNICATIONS (GE)	3
	<input type="checkbox"/> GEO 205 INTRODUCTION TO GEOGRAPHY (GE)	3	<input type="checkbox"/> ENG 202 EXPLORATIONS IN LITERATURE (GE)	3
	Semester Hours:	16	Semester Hours:	16
Notes:				

YEAR 3 WL	Semester 1 Fall	Hours	Semester 2 Spring	Hours
	<input type="checkbox"/> MATH 341 LINEAR ALGEBRA	3	<input type="checkbox"/> MATH 474 MACHINE LEARNING II	4
	<input type="checkbox"/> MATH 473 MACHINE LEARNING I	4	<input type="checkbox"/> MINOR CLASS 3	3
	<input type="checkbox"/> MINOR CLASS 2	3	<input type="checkbox"/> MINOR CLASS 4	3
	<input type="checkbox"/> CHEM 110 GENERAL CHEMISTRY I (GE)	3	<input type="checkbox"/> POLS 201 AMERICAN GOVERNMENT (GE)	3
	<input type="checkbox"/> CHEM 111 GENERAL CHEMISTRY I LAB (GE)	1	<input type="checkbox"/> ELECTIVE	3
	Semester Hours:	14	Semester Hours:	16
Notes: MATH 473/474 and MATH 464/465/470 (see Year 4) alternate years. Some cohorts will take them in the order seen on this sheet, and some cohorts will take MATH 464/465/470 in Year 3 with MATH 473/474 in Year 4.				

YEAR 4 WL	Semester 1 Fall	Hours	Semester 2 Spring	Hours
	<input type="checkbox"/> MATH 464 PROBABILITY AND STATISTICS I	3	<input type="checkbox"/> MATH 465 PROBABILITY AND STATISTICS II	3
	<input type="checkbox"/> MATH 482 DATA SCIENCE CAPSTONE	2	<input type="checkbox"/> MATH 470 COMPUTATIONAL STATISTICS	3
	<input type="checkbox"/> CIS 486 DATA ANALYTICS I	3	<input type="checkbox"/> CIS 487 DATA ANALYTICS II	3
	<input type="checkbox"/> MINOR CLASS 5	3	<input type="checkbox"/> MINOR CLASS 6	3
	<input type="checkbox"/> ELECTIVE	3	<input type="checkbox"/> ELECTIVE	3
	Semester Hours:	14	Semester Hours:	15
Notes: CIS 486/487 are offered every other year. CIS 486 is always in the Fall of an EVEN YEAR with CIS 487 in the Spring of an ODD YEAR. Some students will take these courses in Year 3, instead of Year 4. In that case, a MINOR CLASS or ELECTIVE from each semester of Year 3 would replace CIS 486/487 in Year 4.				