University of Houston-Downtown College of Sciences & Technology

Bachelor of Science – Applied Statistics with Biostatistics Concentration Major (Four Year Plan)

YEAR 1

Semester 1		Semester 2	
Course Number	Credit Hours	Course Number	Credit Hours
ENG 1301 (Composition I)# P: One of the following: (1) TSI ESSAY score of 4 and WRITING score of 340, (2) TSI ESSAY score of 5 and ABE WRITING diagnostic level 4, (3) TSI WRITING complete, OR (4) TSI WRITING exempt	3	**ENG 1302 (Composition II)** P: A grade of C or better in ENG 1301 or placement by examination	3
*MATH 2401 (Calculus I)# P: C or better in MATH 1404 or MATH 1505 or placement by exam taken at UHD NOTE: See catalog for add'l approved sequences	4	***MATH 2402 (Calculus II)** P: A grade of C or better in MATH 2401 NOTE: See catalog for add'l approved sequences	4
*BIOL 1301/1101 (General Biology I w/ Lab) & P: Credit or enroll in ENG 1301 (or 010 core complete) and MATH 1301	4	**MATH 2305 (Discrete Math)&** P: C or better in MATH 1404 or MATH 1505, or both of MATH 1305 and MATH 1306	3
UHD 1302 (Freshman Seminar - Mathematics) Transfer students see advisor for options	3	***BIOL 1302/1102 (General Biology II w/ Lab) &** P: BIOL 1301 and BIOL 1101	4
		POLS 2305 (Federal Government) P: Enrollment in or completion of ENG 1301 or 010 core complete	3
Total Semester Hours	**14**	**Total Semester Hours**	**17**

YEAR 2

Semester 3		Semester 4	
Course Number	Credit Hours	Course Number	Credit Hours
*STAT 3311 (Statistical Analysis for Natural Science) P: C or better in MATH 1404 or MATH 1505	3	**MATH 2307 (Linear Algebra)** P: C or better in MATH 2401 or MATH 2305 or MATH 2409	3
*CHEM 1307/1107 (General Chemistry I w/ Lab) P: Credit or enrollment in MATH 1301, ENG 1301 (or 010 core complete), and one year of HS chemistry OR CHEM 1305/1105	4	***CHEM 1308/1108 (General Chemistry II w/ Lab)** P: Grade of C or better in CHEM 1307/1107	4
COMM 1304 (Intro. To Speech Communication)& P: ENG 1300 or acceptable reading score	3	**STAT Elective course** See catalog for options	3
POLS 2306 (Texas Government) P: Enrollment in or completion of ENG 1301 or 010 core complete	3	**Approved Language, Philosophy, and Culture course** (p. 60) P: Refer to catalog	3
Total Semester Hours	**13**	**Total Semester Hours**	**13**

The current catalog will have final authority over all degree requirements. Students should meet with their academic advisor to formulate their own plan.

YEAR 3

Semester 5		Semester 6	
Course Number	**Credit Hours**	**Course Number**	**Credit Hours**
STAT 4397 (Statistical Computing) P: B or higher in STAT 3309, or MATH 3302, or departmental approval	3	**STAT 4318 (SAS Fundamentals and Applications)** P: C or better in STAT 3309, STAT 3311, or MATH 3302	3
STAT Elective course See catalog for options	3	**STAT Elective course** See catalog for options	3
MBIO 2305/2105 (General Microbiology w/ Lab) P: BIOL 1302/1102 and CHEM 1308/1108	4	***BIOL 2303/2103 (General Genetics w/ Lab)** P: BIOL 1302/1102 and CHEM 1308/1108	4
***TCOM 3302 (Business & Technical Report Writing)** P: Successful completion of ENG 1302 and the Language, Philosophy & Culture core component	3	**CS 1410 (CS I – Intro to CS w/ C++)** P: Credit or enrollment in MATH 1404 or 1505 or 1306; and placement in ENG 1301 or above (can be switched with CS 1408)	4
Approved Social and Behavioral Sciences course (p. 60) P: Refer to catalog	3	**Approved American History course** (p. 60) P: Enrollment in or completion of ENG 1301 or 010 core complete	3
Total Semester Hours	**16**	**Total Semester Hours**	**17**

YEAR 4

Semester 7		Semester 8	
Course Number	**Credit Hours**	**Course Number**	**Credit Hours**
STAT 4395 (Senior Project in Statistics) P: 3.0 GPA, senior standing, and departmental approval (can be switched with approved W course)	3	**STAT Elective course** See catalog for options	3
NS UL Elective course See catalog for options	2	**NS UL Elective course** See catalog for options	4
NS UL Elective course See catalog for options	3	**NS UL Elective course** See catalog for options	3
Approved American History course (p. 60) P: Enrollment in or completion of ENG 1301 or 010 core complete	3	**Approved Creative Arts course** (p. 60) P: Refer to catalog	3
Free Elective (if needed)	3	**Free Elective (if needed)**	3
Total Semester Hours	**14**	**Total Semester Hours**	**16**

Total Credit Hours Required 120

Updated: February 3, 2021

* Critical course required to stay on track within major and take subsequent courses

Students are expected to place into ENG 1301 and MATH 2401 via CLEP or Bypass exams – placement tests determine which english or math course students should start with and additional courses may be necessary

& Satisfies both common core and major requirement/prerequisite