DATA ANALYTICS & SYSTEMS ENGINEERING B.S



ACADEMIC ADVISING

Partnering with students to successfully navigate collegeLocation:Main Hall 208Phone:719.255.3260Website:Academic Advising

GENERAL ACADEMIC INFORMATION

Minimum Graduation Requirements

- 128 credit hours
- 2.0 CU cumulative GPA
- Residency: Last 30 credit hours of degree must be completed while registered in the College Engineering & Applied Science at UCCS

Connect With Your Advisor

Current UCCS Students:

Appointments: <u>www.uccs.edu/advising/current-students</u>
Prospective Students: <u>www.uccs.edu/admissions/contact</u>

Student Responsibilities

Students are required to know and follow:

- All academic policies set forth by the University, College, and academic department in the UCCS Catalog: <u>catalog.uccs.edu</u>
- All course prerequisites designated by the University. Failure to meet course prerequisites may result in an administrative drop of the course from a student's schedule. See degree audit for course prerequisites within the academic major.

DEGREE REQUIREMENTS

Explore Data Analytics and Systems Engineering (DASE): Home | Bachelor of Science in Data Analytics and Systems Engineering (uccs.edu)

	M	ajor Requirements	
DASE Required Courses	Course/Area	Course Title	Credit Hours
(35 hours)	DASE 1011	Introduction to Data Analytics and System Engineering	3
	DASE 2020	Introduction to Statistics for Data Analytics	3
• A minimum GPA of 2.0 must be	DASE 2021	Computer Based Modeling in C	3
maintained on all courses taken	DASE 4460	Intelligent Robotics	3
toward the major.	CS 1150	Principles of Computer Science	3
Pre-requisites will not be waived. Plan	CS 1450	Data Structure and Algorithms	3
sequences accordingly using electives	CS 2080	Programing with Unix	3
to take pre-requisites when necessary.	CS 3050	Social and Ethical Implications of Computing	
	CS 3080	Python Programing	3
	CS 3300	Introduction to Software Engineering	3
You must be admitted into the College	MGMT 3300	Introduction to Management and Organization	3
of Engineering in order to take any CS, MAE, ECE, or ENGR coursework.	ECE 4890 or 4891	Senior Seminar	1
WAE, ECE, OF ENON COURSEWORK.	ECE 4899	Senior Design Project	3
DASE Required Track	Data Analytics Track	Complete 18 credit hours from the courses listed below.	18
(18 hours)		DASE 3009, 4435, 4470, 4570, 4710, 4860	
	Systems Engineering	Complete 18 credit hours from the courses listed below.	18
DASE students are required to pick one	Track	DASE 3009, 4000, 4030, 4570, 4910;	
of the tracks listed as part of their		ECE 2205, 2610, 3003, 3210;	
degree program.		MAE 2055, 3342, 3401, 4421, 4425	
	General Track	Complete 9 hours from each of the Data Analytics and Systems Engineering	18
		Tracks above.	
	Technical Electives		-
Technical Electives	Complete 9 hours of any 3000+ level courses offered by the College of	9	
(9 hours)		Engineering and Applied Science.	

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(General Education and Elective R	Requirements					
Core Writing Requirement	• ENGL 1310 ENGL 1310, 1308, or 1305 (Students choosing ENGL 1305 must complete ENGL 1300 first.)						
(6 hours)	• TCID 2090						
	Writing Portfolio – PORT 3000 (0 credits) or PORT 4000 (1 credit) or alternative – See Degree Audit						
Mathematics	• MATH 1350						
(21 hours)	• MATH 1360						
	• MATH 2350						
	• CS 2150						
	• CS 2300						
	• ECE 3610 or MATH 3810						
Basic Science	• PES 1110						
(11 hours)	Complete an additional 7 hours from: BIOL 1300	, 1310, 1350, 1360; CHEM 1101, 1102, 1121, 1122, 1201, 1401,					
	1402, 1411, 1412; PES 1120, 1160, 2160.						
Compass Curriculum	Component	Course					
(9 hours)	Gateway	GPS 1010					
 Explore and Navigate courses must 	Explore – Arts, Humanities and Cultures	See Degree Audit					
be taken in departments other than	Explore – Society, Behavior and Health	See Degree Audit					
the major.	Explore – Physical and Natural World	PES 1110 (included in Basic Science requirement)					
Writing Intensive, Inclusiveness, and	Navigate	See Degree Audit					
	Summit	ECE 4890 or 4891					
Sustainability courses may count							
Sustainability courses may count toward other requirements within	Writing Intensive Courses (WIC) Two courses with one upper-division (3000+ level)	See Degree Audit					
, ,	Two courses with one upper-division (3000+ level)	-					
toward other requirements within	Two courses with one upper-division (3000+ level)	See Degree Audit See Degree Audit See Degree Audit					

FOUR-YEAR DEGREE PLAN

Please note that this is an example degree program and your program may vary. Students are responsible for completing all course prerequisites.

e	\checkmark	FALL	Hours	V	SPRING	Hours
		DASE 1011	3		DASE 2021	3
ŏ		DASE/CS 1150	3		DASE/CS 1450	3
Year (ENGL 1310	3		TCID 2090	3
		GPS 1010	3		MATH 1360	4
		MATH 1350	4		PES 1110	4
		TOTAL	16		TOTAL	17

		1	FALL	Hours	\checkmark	SPRING	Hours
Year Two			CS 2150	3		DASE/CS 2080	3
	2		CS 2300	3		DASE/CS 3050	1
			DASE 2020	3		DASE/CS 3080	3
			Explore – Arts, Humanities & Cultures Course	3		ECE 3610 (Spring Only) or MATH 3810	3
	2		MATH 2350	4		Explore – Society, Behavior & Health	3
						Basic Science Elective	4
			TOTAL	16		TOTAL	17

Year Three	\checkmark	FALL	Hours	\checkmark	SPRING	Hours
		DASE 3030 or MGMT 3300	3		DASE 4460	3
		DASE/CS 3300	3		DASE Track Course	3
		DASE Track Course	3		Technical Elective	3
		Open Elective (Writing Intensive)	3		Open Elective (Navigate)	3
		Basic Science Elective	3		Open Elective (Inclusiveness)	3
					PORT 3000	0
		TOTAL	15		TOTAL	15

	1	FALL	Hours	\checkmark	SPRING	Hours
		ECE 4890	1		ECE 4899	3
'n		DASE Track Course	3		DASE Track Course	3
R		DASE Track Course	3		DASE Track Course	3
Year		Technical Elective	3		Technical Elective	3
		Open Elective (Writing Intensive)	3		Open Elective	4
		Open Elective (Sustainability)	3			
		TOTAL	16		TOTAL	16