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/CS 1150	Principles of Computer Science	3
 A minimum GPA of 2.0 must be 	DASE/CS 1450	Data Structure and Algorithms	3
maintained on all courses taken	DASE 2020	Introduction to Statistics for Data Analytics	3
toward the major.	DASE 2021	Computer Based Modeling in C	3
Pre-requisites will not be waived. Plan	DASE/CS 2080	Programing with Unix	3
sequences accordingly using electives to take pre-requisites when necessary.	DASE 3030 or MGMT 3300	Project Management or Introduction to Management and Organization	3
······································	DASE/CS 3050	Social & Ethical Implications for DASE	1
	DASE/CS 3080	Programing Languages for Data Analytics	3
You must be admitted into the College	DASE/CS 3300	Software Engineering	3
of Engineering in order to take any CS,	DASE 4460	Intelligent Robotics	3
MAE, ECE, or ENGR coursework.	ECE 4890 or 4891	Senior Seminar	1
	ECE 4899	Senior Design Project	3
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DASE Required Track (18 hours)	Data Analytics Track	Complete 18 credit hours from the courses listed below. DASE 4210, 4310, 4410, 4420, 4435, 4440, 4470, 4510, 4540, 4570, 4710, 4820, 4860, 4870, 4890	18
DASE students are required to pick one of the tracks listed as part of their degree program.	Systems Engineering Track	Complete 18 credit hours from the courses listed below. DASE 2030, 4000, 4030, 4570, 4910, ECE 2205, 2610, 3003, 3210, MAE 2055, 3342, 3401, 4421, 4425	18
	General Track	Complete 9 hours from each of the Data Analytics and Systems Engineering Tracks above.	18
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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G	eneral Education and Elective R	Requirements					
Core Writing Requirement	 ENGL 1310 ENGL 1310, 1308, or 1305 (Students choosing ENGL 1305 must complete ENGL 1300 first.) TCID 2090 PORT 3000 (0 Credits) – Writing Portfolio 						
(6 hours)							
Mathematics	MATH 1350 MATH 1360						
(21 hours)							
	• MATH 2350						
	• CS 2150						
	• CS 2300						
	 ECE 3610 OR MATH 3810 						
Basic Science	• PES 1110						
(11 hours)	• 7 hours – see degree audit for course options						
Compass Curriculum	Component	Course					
(9 hours)	Gateway	GPS 1010					
Explore and Navigate courses must	Explore – Arts, Humanities and Cultures	See Degree Audit					
be outside major requirements	Explore – Society, Behavior and Health	See Degree Audit					
Writing Intensive, Inclusiveness, and	Explore – Physical and Natural World	PES 1110 (included in Basic Science requirement)					
Sustainability courses can count	Navigate	See Degree Audit					
,	Summit	ECE 4890/4899					
towards other requirements within degree	Writing Intensive Courses (WIC) Two courses with one upper-division (3000+ level)	See Degree Audit					
	Inclusiveness	See Degree Audit					
	Sustainability	See Degree Audit					
Open Electives (19 hours)		irement for the degree program. The chosen course(s) can be nath course below MATH 1350. Only 3 credit hours of CS course ectives.					

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.
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	\checkmark	FALL	Hours	1	SPRING	Hours
e		DASE 1011	3		DASE 2021	3
_		DASE/CS 1150	3		DASE/CS 1450	3
ō		ENGL 1310	3		TCID 2090	3
ea		GPS 1010	3		MATH 1360	4
~		MATH 1350	4		PES 1110	4
		TOTAL	16		TOTAL	17

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

	\checkmark	FALL	Hours	\checkmark	SPRING	Hours
		DASE 3030 or MGMT 3300	3		DASE 4460	3
ee,		DASE/CS 3300	3		DASE Track Course	3
Year Thr		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

r	1	FALL	Hours	\checkmark	SPRING	Hours
		ECE 4890	1		ECE 4899	3
		DASE Track Course	3		DASE Track Course	3
Б		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