DATA ANALYTICS & SYSTEMS ENGINEERING B.I.



ACADEMIC ADVISING

Partnering with students to successfully navigate college

Location: Main Hall 208
Phone: 719.255.3260
Website: Academic Advising

Connect With Your Advisor

Current UCCS Students

• Appointments: www.uccs.edu/advising/current-students
Prospective Students: www.uccs.edu/advising/current-students

GENERAL ACADEMIC INFORMATION

Minimum Graduation Requirements

- 130 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

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): BI in Data Analytics and Systems Engineering (DASE) - (uccs.edu)

DACE Date to describe		Major Requirements	Constitution of
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
	CS 1450	Data Structure and Algorithms	3
	CS 2080	Programing with Unix	3
You must be admitted into the College	CS 3050	Social and Ethical Implications of Computing	1
of Engineering in order to take any CS, MAE, ECE, or ENGR coursework.	CS 3080	Python Programming	3
	CS 3300	Introduction to Software Engineering	3
	MGMT 3300	Introduction to Management and Organization	3
	ECE 4890	Senior Seminar	1
	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	Track	DASE 3009, 4000, 4030, 4570, 4910	
one of the tracks listed as part of		ECE 2205, 2610, 3003, 3210	
their degree program.		MAE 2055, 3342, 3401, 4421, 4425	
	General Track	Complete 9 hours from each of the Data Analytics and Systems Engineering Tracks above.	18
		Tracks above.	
BI Innovation Core	INOV 1000 or	Introduction to Entropropourchip or	3
(24 hours)	INOV 1000 or INOV 1001	Introduction to Entrepreneurship or Social Entrepreneurship	3
(24 Hours)	INOV 1001	The Innovation Process or	3
	INOV 1010 01	Social Innovation	
	INOV 2010	Innovation Team: Analyze and Report	3
	INOV 2100	Technical Writing, Proposals, and Presentations	3
	INOV 2500	Business Law and Innovation	3
	INOV 3010	Innovation Team: Research and Execute	3
	INOV 4010	Innovation Team: Design and Lead	3
	INOV 4500	Entrepreneurship and Strategy	3
	1140 V 4500	End opicineurship and strategy	3
BI Cross-Discipline Core	Complete one of the Cro	ass. Discipling Cores listed helow Each Cross-Discipling Core consists of 15 credit	T
(15 hours)	Complete one of the Cross-Discipline Cores listed below. Each Cross-Discipline Core consists of 15 credit hours. See the degree audit or Academic Catalog for specific courses: http://catalog.uccs.edu/		
(13 110013)	Business, Creative Communication, Globalization, Inclusive Education, or Custom (for Veterans and		
	Transfer students only)		

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Core Writing Requirement	 ENGL 1310, 1308, or 1305 (Students choosing ENGL 1305 must complete ENGL 1300 first.) Writing Portfolio – PORT 3000 (0 credits) or PORT 4000 (1 credit) or alternative – See Degree Audit 					
(3 hours)						
Mathematics (21 hours)	 MATH 1350 MATH 1360 MATH 2350 CS 2150 CS 2300 ECE 3610 or MATH 3810 					
Basic Science (11 hours)	 PES 1110 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				
(3 hours)	Gateway	GPS 1010				
Explore and Navigate courses must be	Explore – Arts, Humanities and Cultures	INOV 1010 or INOV 1011 (included in BI Core)				
taken in departments other than the	Explore – Society, Behavior and Health	INOV 1000 or INOV 1001 (included in BI Core)				
major.	Explore – Physical and Natural World	PES 1110 (included in Basic Science requirement)				
Writing Intensive, Inclusiveness, and	Navigate	INOV 3010 (included in BI Core)				
	Summit	INOV 4500 (included in BI Core)				
Sustainability courses may count toward other requirements within the degree.	Writing Intensive Courses (WIC) Two courses with one upper-division (3000+ level)	INOV 2010 (included in BI Core)INOV 3010 (included in BI Core)				
	Inclusiveness	INOV 1010 or INOV 1011 (included in BI Core)				
	Sustainability	INOV 1000 or INOV 1001 (included in BI Core)				

FOUR-YEAR DEGREE PLAN

Cross-Discipline Core Course

Cross-Discipline Core Course

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

	J	FALL	Hours	1	SPRING	Hours
r One		DASE 1011	3		DASE 2021	3
		CS 1150	3		CS 1450	3
		INOV 1000 or INOV 1001	3		INOV 1010 or INOV 1011	3
Year		GPS 1010	3		MATH 1360	4
>		MATH 1350	4		PES 1110	4
		TOTAL	16		TOTAL	17
	J	FALL	Hours	J	SPRING	Hours
		INOV 2500	3		CS 2080	3
9		CS 2150	3		CS 3050	1
≥		CS 2300	3		CS 3080	3
Year Two		DASE 2020	3		ECE 3610 (spring only) or MATH 3810	3
Υe		ENGL 1310	3		INOV 2010	3
		MATH 2350	4		INOV 2100	3
		TOTAL	19		TOTAL	16
	1	FALL	Hours	1	SPRING	Hours
		DASE 3030 or MGMT 3300	3		DASE 4460	3
ee		CS 3300	3		DASE Track Course	3
בַּ		DASE Track Course	3		INOV 3010	3
		DASE Track Course	3			
Ë		Cross-Discipline Core Course	3		Cross-Discipline Core Course	3
/ear T						3
Year Three		Cross-Discipline Core Course	3		Cross-Discipline Core Course	
Year T		Cross-Discipline Core Course	3		Cross-Discipline Core Course Basic Science Elective	3
Year T		Cross-Discipline Core Course Basic Science Elective TOTAL	3 4	J	Cross-Discipline Core Course Basic Science Elective PORT 3000 TOTAL	3 0 15
Year T	<i>J</i>	Cross-Discipline Core Course Basic Science Elective TOTAL	3 4 16 Hours	J	Cross-Discipline Core Course Basic Science Elective PORT 3000 TOTAL SPRING	3 0 15 Hours
	J	Cross-Discipline Core Course Basic Science Elective TOTAL FALL ECE 4890	3 4 16 Hours	√	Cross-Discipline Core Course Basic Science Elective PORT 3000 TOTAL SPRING ECE 4899	3 0 15 Hours 3
	J	Cross-Discipline Core Course Basic Science Elective TOTAL FALL ECE 4890 DASE Track Course	3 4 16 Hours	<i>J</i>	Cross-Discipline Core Course Basic Science Elective PORT 3000 TOTAL SPRING ECE 4899 INOV 4500	3 0 15 Hours 3 3
ear Four Year T	J	Cross-Discipline Core Course Basic Science Elective TOTAL FALL ECE 4890	3 4 16 Hours 1 3	J	Cross-Discipline Core Course Basic Science Elective PORT 3000 TOTAL SPRING ECE 4899	3 0 15 Hours 3

3

3

16

TOTAL

Cross-Discipline Core Course

TOTAL

3

15