DATA ANALYTICS & SYSTEMS ENGINEERING B.I.



ACADEMIC ADVISING

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

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

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

		Major 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
 A minimum GPA of 2.0 must be 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
	DASE/CS 2080	Programing with Unix	3
	DASE 3030 or	Project Management or	3
You must be admitted into the College	MGMT 3300	Introduction to Management and Organization	3
of Engineering in order to take any CS,	DASE/CS 3050	Social & Ethical Implications for DASE	1
MAE, ECE, or ENGR coursework.	DASE/CS 3080	Programing Languages for Data Analytics	3
	DASE/CS 3300	Software Engineering	3
	DASE 4460	Intelligent Robotics	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 4210, 4310, 4410, 4420, 4435, 4440, 4470, 4510, 4540, 4570, 4710,	
		4820, 4860, 4870, 4890	
DASE students are required to pick	Systems Engineering	Complete 18 credit hours from the courses listed below.	18
one of the tracks listed as part of	Track	DASE 2030, 4000, 4030, 4570, 4910, ECE 2205, 2610, 3003, 3210, MAE 2055,	
their degree program.	Conorol Trools	3342, 3401, 4421, 4425	10
	General Track	Complete 9 hours from each of the Data Analytics and Systems Engineering Tracks above.	18
		TTUCKS UDOVE.	
BI Innovation Core	Innovation Core – Com	plete the following courses	
(24 hours)	BLAW 2010	Business and Intellectual Property Law	3
	ENTP 1000*	Introduction to Entrepreneurship	3
*NOTE: ENTP 1001 and INOV 1011	ENTP 4500	Entrepreneurship and Strategy	3
may be taken as alternatives to these	INOV 1010*	The Innovation Process	3
courses.	INOV 2010	Innovation Team: Analyze and Report	3
	INOV 2100	Technical Writing, Proposals, and Presentations	3
	INOV 3010	Innovation Team: Research and Execute	3
	INOV 4010	Innovation Team: Design and Lead	3
BI Cross-Discipline Core	Complete one of the Cro	ss-Discipline Cores listed below. Each Cross-Discipline Core consists of 15 credit	
(15 hours)		idit or Academic Catalog for specific courses: http://catalog.uccs.edu/	
()	5	munication, Globalization, Inclusive Education, or Custom (for Veterans and	15
	Transfer students only)		

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G	eneral Education and Elective R	Requirements			
Core Writing Requirement (3 hours)	 ENGL 1310, 1308, or 1305 (Students choosing EN PORT 3000 (0 Credits) – Writing Portfolio 	IGL 1305 must complete ENGL 1300 first.)			
Mathematics (21 hours)	 MATH 1350 MATH 1360 MATH 2350 CS 2150 CS 2300 ECE 3610 OR MATH 3810 				
Basic Science (11 hours)	 PES 1110 7 additional basic science hours – see degree audit for course options 				
Compass Curriculum	Component	Course			
 (3 hours) Explore and Navigate courses must be outside major requirements Writing Intensive, Inclusiveness, and Sustainability courses can count towards other requirements within degree 	Gateway Explore – Arts, Humanities and Cultures Explore – Society, Behavior and Health Explore – Physical and Natural World Navigate Summit Writing Intensive Courses (WIC) Two courses with one upper-division (3000+ level) Inclusiveness	GPS 1010 INOV 1010 (included in BI Core requirements) ENTP 1000 (included in BI Core requirements) PES 1110 (included in Basic Science requirement) INOV 3010 (included in BI Core requirements) ENTP 4500 (included in BI Core requirements) • INOV 2010 (included in BI Core requirements) • INOV 2010 (included in BI Core requirements) • INOV 3010 (included in BI Core requirements) • INOV 3010 (included in BI Core requirements) • INOV 1010 (included in BI Core requirements)			
	Sustainability	ENTP 1000 (included in BI Core requirements)			

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	1	FALL	Hours	\checkmark	SPRING	Hours
		DASE 1011	3		DASE 2021	3
_		DASE/CS 1150	3		DASE/CS 1450	3
Year O		ENTP 1000	3		INOV 1010	3
		GPS 1010	3		MATH 1360	4
		MATH 1350	4		PES 1110	4
		TOTAL	16		TOTAL	17

Year Two	\checkmark	FALL	Hours	1	SPRING	Hours
		BLAW 2010	3		DASE/CS 2080	3
		CS 2150	3		DASE/CS 3050	1
		CS 2300	3		DASE/CS 3080	3
		DASE 2020	3		ECE 3610 (Spring Only) OR MATH 3810	3
		ENGL 1310	3		INOV 2010	3
		MATH 2350	4		INOV 2100	3
		TOTAL	19		TOTAL	16

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		INOV 3010	3
		Cross-Discipline Core Course	3		Cross-Discipline Core Course	3
		Basic Science Elective	4		Basic Science Elective	3
					PORT 3000	0
		TOTAL	16		TOTAL	15

	1	FALL	Hours	1	SPRING	Hours
		ECE 4890	1		ECE 4899	3
ŭ		DASE Track Course	3		ENTP 4500	3
Year Fo		DASE Track Course	3		DASE Track Course	3
		INOV 4010	3		DASE Track Course	3
		Cross-Discipline Core Course	3		Cross-Discipline Core Course	3
		Cross-Discipline Core Course	3			
		TOTAL	16		TOTAL	15