DATA ANALYTICS & SYSTEMS ENGINEERING B.I.

University of Colorado Colorado Springs

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/admissions/contact

GENERAL ACADEMIC INFORMATION

Minimum Graduation Requirements
- 129 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: catalog.uccs.edu
- 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 (34 hours) • Pre-requisites will not be waived. Plan sequences accordingly to take pre-requisites when necessary.	**Course/Area**	**Course Title**	**Credit Hours**
	DASE 1011	Introduction to Data Analytics and System Engineering	3
	DASE 1021	Engineering Complex Systems	3
	DASE 1150	Principles of Computer Science	3
	DASE 1450	Data Structure and Algorithms	3
	DASE 2020	Computational Statistics	3
	DASE 2080	Programing with Unix	2
	DASE 3030	Project Management	3
	DASE 3050	Social & Ethical Implications for DASE	1
	DASE 3080	Programing Languages for Data Analytics	3
	DASE 3300	Software Engineering	3
	DASE 4460	Intelligent Robotics	3
	ECE 4890	Senior Seminar	1
	ECE 4899	Senior Design Project	3
DASE Required Track (18 hours) DASE students are required to pick one of the tracks listed as part of their degree program.	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
	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
BI Innovation Core (24 hours)	**Innovation Core** – Complete the following courses		
	BLAW 2010	Business and Intellectual Property Law	3
	ENTP 1000	Introduction to Entrepreneurship	3
	ENTP 4500	Entrepreneurship and Strategy	3
	INOV 1010	The Innovation Process	3
	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 (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/* **Business, Creative Communication, Globalization, Inclusive Education, or Custom (for Veterans and Transfer students only)**		15

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General Education and Elective Requirements

Core Writing Requirement (3 hours)	• ENGL 1310, 1308, or 1305 *(Students choosing ENGL 1305 must complete ENGL 1300 first.)* • PORT 3000 (0 Credits) – Writing Portfolio
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 (3 hours)

- Explore and Navigate courses must be outside major requirements
- Writing Intensive, Inclusiveness, and Sustainability courses can count towards other requirements within degree

Component	Course
Gateway	GPS 1010
Explore – Arts, Humanities and Cultures	INOV 1010 (included in BI Core requirements)
Explore – Society, Behavior and Health	ENTP 1000 (included in BI Core requirements)
Explore – Physical and Natural World	PES 1110 (included in Basic Science requirement)
Navigate	INOV 3010 (included in BI Core requirements)
Summit	ENTP 4500 (included in BI Core requirements)
Writing Intensive Courses (WIC) *Two courses with one upper-division (3000+ level)*	• INOV 2010 (included in BI Core requirements) • INOV 3010 (included in BI Core requirements)
Inclusiveness	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.**

Year One

√	FALL	Hours	√	SPRING	Hours
	DASE 1011	3		DASE 1021	3
	DASE 1150	3		DASE 1450	3
	ENTP 1000	3		INOV 1010	3
	GPS 1010	3		MATH 1360	4
	MATH 1350	4		PES 1110	4
	TOTAL	16		**TOTAL**	17

Year Two

√	FALL	Hours	√	SPRING	Hours
	BLAW 2010	3		DASE 2080	2
	CS 2150	3		DASE 3050	1
	CS 2300	3		DASE 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**	15

Year Three

√	FALL	Hours	√	SPRING	Hours
	DASE 3030	3		DASE 4460	3
	DASE 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

Year Four

√	FALL	Hours	√	SPRING	Hours
	ECE 4890	1		ECE 4899	3
	DASE Track Course	3		ENTP 4500	3
	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