

Academic Map: Applied Data Analytics

Department: _____ Computer Information Systems and Analytics _____ **Degree:** _____ BS _____
Program/Major: _____ Applied Data Analytics _____
Track/Emphasis: _____
Does this program require a minor? (Yes/No) _____ No _____

Important program information in the online *Undergraduate Bulletin*:

UCA Core Requirements: <https://uca.edu/ubulletin/general-policies-information/uca-core/>
LD UCA Core Check Sheet: <https://uca.edu/academicbulletins/ld-uca-core/>
UD UCA Core Course List: <https://uca.edu/academicbulletins/ud-uca-core/>
Degree Requirements: <https://uca.edu/ubulletin/general-policies-information/degree-requirements/>
Program Description: <https://uca.edu/ubulletin/colleges-departments/cb/cisa/>
Course Descriptions: <https://uca.edu/ubulletin/courses/>

This degree program requires a total of 120 semester credit hours, including at least 40 upper-division credit hours.

Comparable courses in the Arkansas Course Transfer System (ACTS) are cross-referenced in the ACTS column of each semester block below; a [core link](https://uca.edu/academicbulletins/ld-uca-core/) (https://uca.edu/academicbulletins/ld-uca-core/) takes the user to the *Undergraduate Bulletin's* Lower-Division (LD) UCA Core check sheet, where UCA Core options and ACTS course numbers are listed in full; an [acts link](https://uca.edu/academicbulletins/acts/) takes the user to the *Undergraduate Bulletin's* ACTS page (https://uca.edu/academicbulletins/acts/) for additional information and a UCA-ACTS crosswalk.

Scholarship recipients: Please be aware of eligibility criteria for your scholarship(s). In particular, pay attention to (1) the enrollment requirements each semester for disbursement of your scholarship(s) and (2) the number of hours and GPA required each semester and/or year for renewal of your scholarship(s). Some Academic Maps may suggest enrollment in fewer hours than required for disbursement of your scholarship(s). In such cases, work with your academic advisor to adjust your schedule to meet requirements most efficiently. Contact the Office of Student Financial Aid at (501) 450-3140 with any questions regarding enrollment/renewal requirements of your scholarship(s). For online information resources, see endnote ¹.

Year 1

Fall – Semester 1 (Credit hours: 16)

SUBJ	NUM	TITLE	SCH	ACTS
WRTG	1310	Introduction to College Writing (LD UCA Core)	3	ENGL1013
		LD UCA Core Choice (Lab Science) ²	4	core link
MIS	1300	Business Computing or LD UCA Core Choice First Year Seminar ²	3	core link
MATH MATH	1390 1395	College Algebra (LD UCA Core) ² or Applied Mathematics for Business (or other LD UCA Core Math)	3	MATH1103 core link
BUAD ECON	1300 2310	Introduction to Business or Global Environment of Business (LD UCA Core) ²	3	

Spring – Semester 2 (Credit hours: 15)

SUBJ	NUM	TITLE	SCH	ACTS
WRTG ENGL	1320 1320	Academic Writing and Research or Interdisciplinary Writing and Research or Approved Alternative (LD UCA Core) ²	3	ENGL1023 ENGL1023 core link
BUAD ECON	1300 2310	Introduction to Business or Global Environment of Business (LD UCA Core) ²	3	core link

SUBJ	NUM	TITLE	SCH	
MIS	1300	Business Computing or LD UCA Core Choice First Year Seminar ²	3	core link
MATH ECON	1395 2320	Applied Mathematics for Business or Principles of Macroeconomics (LD UCA Core) ²	3	ECON2103
		LD UCA Core Choice ²	3	core link

Year 2**Fall – Semester 3 (Credit hours: 16)**

SUBJ	NUM	TITLE	SCH	
ECON ECON	2320 2321	Principles of Macroeconomics (LD UCA Core) ² or Principles of Microeconomics (LD UCA Core) ²	3	ECON2103 ECON2203
QMTM MGMT	2330 2301	Business Statistics or Business Communications (LD UCA Core) ²	3	BUSI2103 BUSI2013
ACCT	2310	Accounting I	3	ACCT2003
ACCT	2321	Legal Environment of Business or LD UCA Core Choice ²	3	BLAW2003 core link
		LD UCA Core (Lab Science) ²	4	core link

Spring – Semester 4 (Credit hours: 16)

SUBJ	NUM	TITLE	SCH	
ECON	2321	Principles of Microeconomics (LD UCA Core) ² or General Elective	3	ECON2203
QMTM MGMT	2330 2301	Business Statistics or Business Communications (LD UCA Core) ²	3	BUSI2103 BUSI2013
ACCT	2321	Legal Environment of Business or LD UCA Core Choice ²	3	BLAW2003 core link
MIS	3300	Introduction to Computer Architecture and Programming	3	
		LD UCA Core Choice ²	3	

Year 3**Fall – Semester 5 (Credit hours: 15)**

SUBJ	NUM	TITLE	SCH	
MIS	3321	Managing Systems and Technology	3	
MKTG MGMT	3350 3344	Principles of Marketing or Operations and Supply Chain Management	3	
MIS	3335	Data Analysis Using Python	3	
MIS	3343	Advanced Spreadsheets	3	
MIS	4320	Critical Thinking and Experimental Design	3	

Spring – Semester 6 (Credit hours: 15)

SUBJ	NUM	TITLE	SCH	
MIS	4380	Business Intelligence and Data Visualization	3	
MIS	4325	Predictive Analytics	3	
MIS	3365	Database Applications	3	
MIS	4381	Data Mining	3	
		General elective	3	

Year 4**Fall – Semester 7 (Credit hours: 15)**

SUBJ	NUM	TITLE	SCH	
MGMT	3340	Managing People and Work [UD UCA Core: D, R] ²	3	
FINA	3330	Managing Finance and Capital [UD UCA Core: I] ² or General Elective	3	
MIS	3328	Systems Analysis and Design [UD UCA Core: C] ²	3	
MIS	3382	Internship (must be in data analytics) or UD CISA Elective or	3	
WRTG	3310	Technical Writing		
ECON MKTG	3335 4353	Econometrics or Marketing Research & Data Management	3	

Spring – Semester 8 (Credit hours: 13)

SUBJ	NUM	TITLE	SCH	
MIS	4355	Project Management [UD UCA Core: Z] ²	3	
MIS	4330	Prescriptive Analytics	3	
FINA	3330	Managing Finance and Capital [UD UCA Core: I] ² or General Elective	3	
		General Elective	3	
		General Elective	1	

SIGNED – DEPARTMENT CHAIR

DATE

SIGNED – COLLEGE DEAN

DATE

To be completed by the advisor when an Eight-Semester plan is accepted by the student:

If applicable, has student selected a minor? Type “x” as appropriate. _____ No _____ Yes

If “yes,” specify: _____

Notes

¹ See online information resources for UCA scholarships at <https://uca.edu/scholarships/> and for state scholarships at <https://scholarships.adhe.edu/scholarships-and-programs/a-z/>.

² Students must select one course from each category to meet UCA Core requirements.

- Physical Science
- Life Science
- Mathematics
- Writing (2 semesters)
- American History and Government*
- Fine Arts/Humanities*
- Diversity and Creative Works*
- Responsible Living*
- MGMT 2301 Business Communications (Oral Communication)
- ECON 2321 Microeconomics or ECON 2320 Macroeconomics (Social Science)

Notes – *continued*

- ECON 2310 Global Environment of Business (Diversity in World Cultures)

*First Year Seminar courses may be available in these areas.

The student will also need to complete major, minor, or general elective courses designated as fulfilling the upper-division and capstone requirements of the upper-division (UD) UCA Core. See annotations in this Academic Map for courses within the major that will fulfill these requirements.