

## 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 <sup>1</sup>.

### Year 1

#### Fall – Semester 1 (Credit hours: **16**)

SUBJ	NUM	TITLE	SCH	ACTS
WRTG	1310	Introduction to College Writing (LD UCA Core)	3	<a href="#">ENGL1013</a>
		LD UCA Core Choice (Lab Science) <sup>2</sup>	4	<a href="#">core link</a>
CISA	1300	Business Computing or LD UCA Core Choice First Year Seminar <sup>2</sup>	3	<a href="#">core link</a>
MATH	1390	College Algebra (LD UCA Core) <sup>2</sup> or	3	<a href="#">MATH1103</a> <a href="#">core link</a>
MATH	1395	Applied Mathematics for Business (or other LD UCA Core Math)		
ECON	2310	Global Environment of Business (LD UCA Core) <sup>2</sup>	3	

#### Spring – Semester 2 (Credit hours: **15**)

SUBJ	NUM	TITLE	SCH	ACTS
WRTG	1320	Academic Writing and Research or	3	<a href="#">ENGL 1023</a> <a href="#">ENGL 1023</a> <a href="#">core link</a>
ENGL	1320	Interdisciplinary Writing and Research or Approved Alternative (LD UCA Core) <sup>2</sup>		
		General Elective	3	
CISA	1300	Business Computing or LD UCA Core Choice First Year Seminar <sup>2</sup>	3	<a href="#">core link</a>

SUBJ	NUM	TITLE	SCH	
MATH ECON	1395 2320	Applied Mathematics for Business or Principles of Macroeconomics (LD UCA Core) <sup>2</sup>	3	<a href="#">ECON2103</a>
		LD UCA Core Choice <sup>2</sup>	3	<a href="#">core link</a>

## Year 2

### Fall – Semester 3 (Credit hours: 16)

SUBJ	NUM	TITLE	SCH	
ECON ECON	2320 2321	Principles of Macroeconomics (LD UCA Core) <sup>2</sup> or Principles of Microeconomics (LD UCA Core) <sup>2</sup>	3	<a href="#">ECON2103</a> <a href="#">ECON2203</a>
CISA MGMT	2330 2301	Business Statistics or Business Communications (LD UCA Core) <sup>2</sup>	3	<a href="#">BUSI2103</a> <a href="#">BUSI2013</a>
ACCT	2310	Accounting I	3	<a href="#">ACCT2003</a>
ACCT	2321	Legal Environment of Business or LD UCA Core Choice <sup>2</sup>	3	<a href="#">BLAW2003</a> <a href="#">core link</a>
		LD UCA Core (Lab Science) <sup>2</sup>	4	<a href="#">core link</a>

### Spring – Semester 4 (Credit hours: 15)

SUBJ	NUM	TITLE	SCH	
ECON	2321	Principles of Microeconomics (LD UCA Core) <sup>2</sup> or General Elective	3	<a href="#">ECON2203</a>
CISA MGMT	2330 2301	Business Statistics or Business Communications (LD UCA Core) <sup>2</sup>	3	<a href="#">BUSI2103</a> <a href="#">BUSI2013</a>
ACCT	2321	Legal Environment of Business or LD UCA Core Choice <sup>2</sup>	3	<a href="#">BLAW2003</a> <a href="#">core link</a>
CISA	3300	Introduction to Computer Architecture and Programming	3	
		LD UCA Core Choice <sup>2</sup>	3	

## Year 3

### Fall – Semester 5 (Credit hours: 15)

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

### Spring – Semester 6 (Credit hours: 15)

SUBJ	NUM	TITLE	SCH	
CISA	4380	Business Intelligence and Data Visualization	3	
CISA	4325	Predictive Analytics	3	
CISA	3365	Database Applications	3	
CISA	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] <sup>2</sup>	3	
FINA	3330	Managing Finance and Capital [UD UCA Core: I] <sup>2</sup> or General Elective	3	
CISA	3328	Systems Analysis and Design [UD UCA Core: C] <sup>2</sup>	3	
CISA	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	
CISA	4355	Project Management [UD UCA Core: Z] <sup>2</sup>	3	
CISA	4330	Prescriptive Analytics	3	
FINA	3330	Managing Finance and Capital [UD UCA Core: I] <sup>2</sup> 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**

<sup>1</sup> 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/>.

<sup>2</sup> 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.