



This program roadmap represents one possible pathway to complete the program. **Please see a counselor** to create an education plan that is customized to meet your needs. This roadmap is not a guarantee of course availability or financial aid applicability.

Catalog: 2025-26**Total Units:** 24**Start Term:** Fall

First Year

Semester 1 (Fall)

7 Units

CAT.	COURSE	UNIT	PREREQUISITES
Req	CISA 320 Introduction to Database Management	1	
Req	CISP 300 Algorithm Design/Problem Solving	3	
Req	CISW 300 Web Publishing	3	

Semester 2 (Spring)

9 Units

CAT.	COURSE	UNIT	PREREQUISITES
Req	CISA 315 Introduction to Electronic Spreadsheets	2	
Req	CISA 322 Design and Development of Desktop Database Applications	3	CISA 320
Req	CISP 370 Beginning Visual Basic	4	

Second Year

Semester 3 (Fall)

8 Units

CAT.	COURSE	UNIT	PREREQUISITES
Req	CISC 320 Operating Systems	1	
Req	CISP 350 Database Programming	3	
Req	CISW 410 Database-Driven Web Applications	4	(see below)

CISW 410 prerequisite: CISW 300, and CISP 300, 370 or 480.

EXPLANATION OF CATEGORIES

Req	Required Core	A course that is required for this program
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CAREER PATH

Career Options:

This certificate prepares students for entry-level IT positions in database management.

Scheduling Notes:

- CISW 300 and 410 are offered in the fall.
- CISA 322 is offered in the spring.

Other Notes:

- This certificate can be started in the spring as well. [See a counselor](#) to adjust the course work.