Plan of Study

BS Computer Information Systems
Application Development Specialization
Catalog Year: 2025 – 2026

DAKOTA STATE
UNIVERSITY®

Sample Schedule: students are not limited to this plan; it is meant to serve as a guide for planning purposes in discussions with your academic advisor. This plan is one possible path to completing this degree in *four years.*

FIRST YEAR				
First Semester			**On Campus**	**Online**
Course	**Prerequisites / Comments**	**Credits**	**Semester(s) Offered**	
CSC 105 Introduction to Computers		3	F/S	F/S/SU
CSC 150 Computer Science I		3	F/S	F/S/SU
CIS 325 Management Information Systems		3	F	F/S/SU
SGE Written Communication	1 of 2 / ENGL 101 required	3	F/S	F/S/SU
SGE Math	1 of 1 / * MATH 114 or Higher	3	F/S	F/S/SU
GS 100 University Experience	Not required online	0	F	-
	Total Credit Hours	15		
Second Semester				
Course	**Prerequisites / Comments**	**Credits**	**Semester(s) Offered**	
CIS 206 Advanced Applications: Word	CSC 105 / Choose 3 credits of the 4 options	1	S	F/S/SU
CIS 207 Advanced Applications: Spreadsheets		1	S	F/S/SU
CIS 208 Advanced Applications: Database		1	S	F/S/SU
CIS 210 QuickBooks		1	F	F
CSC 163 Hardware, Virtualization & Data Com.		3	F/S	F/S/SU
CIS 251 Business Applications Programming	CSC 150	3	S	F/S/SU
SGE Oral Communication	1 of 1 / Choose CMST 101, 215 or 222	3	F/S	F/S
SGE Natural Sciences	1 of 2	3	F/S	F/S
	Total Credit Hours	15		
SECOND YEAR				
Third Semester				
Course	**Prerequisites / Comments**	**Credits**	**Semester(s) Offered**	
ACCT 210 Principles of Accounting I		3	F/S	F/S/SU
BADM 220 Business Statistics	Math 104 or higher	3	F/S	F/SU
CIS 275 Web Application Programming I	CSC 150, CIS 123	3	F	F/S/SU
CSC 134 Inroduction to Cyber		3	F/S	F/S/SU
SGE Social Sciences	1 of 2 (in 2 disciplines)	3	F/S	F/S/SU
	Total Credit Hours	15		
Fourth Semester				
Course	**Prerequisites / Comments**	**Credits**	**Semester(s) Offered**	
CIS 332 Structured Systems Analysis & Design	CIS 123, CSC 150	3	F/S	F/S/SU
CIS 375 Web Application Programming II	CIS 275 or MCOM 351	3	S	F/S/SU
CSC 285 Networking I		3	F/S	F/S/SU
SGE Written Communication	1 of 2 / * ENGL 201 required	3	F/S	F/S/SU
SGE Arts and Humanities	1 of 2 (in 2 disciplines)	3	F/S	F/S/SU
	Total Credit Hours	15		
THIRD YEAR				
Fifth Semester				
Course	**Prerequisites / Comments**	**Credits**	**Semester(s) Offered**	
CSC 260 Object Oriented Design	CIS 251 or CSC 250	3	F/S	F/S/SU
CIS 484 Database Management Systems		3	F/S	F/S/SU
ECON 201 Principles of Microeconomics		3	F/S	F/SU
ACCT/BADM/CIS/CSC/ECON/HIM Elective	1 of 3, * CIS 330 (prepreq: CSC 150)	3	-	F
ACCT/BADM/CIS/CSC/ECON/HIM Elective	2 of 3, * CIS 372 (prepreq: CSC 150)	3	F	F
	Total Credit Hours	15		
Sixth Semester				
Course	**Prerequisites / Comments**	**Credits**	**Semester(s) Offered**	
BADM 370 Marketing		3	F/S	F/S/SU
CIS 338 Project Management		3	S	S/SU

CIS 487 Database Programming	CIS 484	3	S	S
SGE Arts and Humanities	2 of 2 (in 2 disciplines)	3	F/S	F/S/SU
Open Elective	1 of 2	3	F/S	F/S/SU
	Total Credit Hours	**15**		

FOURTH YEAR

Seventh Semester

Course	Prerequisites / Comments	Credits	Semester(s) Offered	
BADM 344 Managerial Communications	ENGL 101	3	F/S	F/SU
BADM 360 Organization & Management		3	F/S	F/SU
CSC 376 Web Development Environments	CIS 375 or CSC 334	3	-	F/S/SU
ACCT/BADM/CIS/CSC/ECON/HIM Elective	3 of 3 * CIS 438	3	F	F
Open Elective	2 of 2 / * CIS 474	3	F	F
Apply for Graduation	**You will receive a notification in your DSU email identifying the process to apply for graduation in the semester before your planned graduation date.**			
	Total Credit Hours	**15**		

Eighth Semester

Course	Prerequisites / Comments	Credits	Semester(s) Offered	
BADM 350 Legal Environment of Business		3	F/S	F/S
CIS 424 Software Development w/ Agile	CIS 251 or CSC 250	3	S	S
CIS 427 Info Systems Planning & Management	CIS 325 or CIS 332	3	S	S
SGE Natural Sciences	2 of 2	3	F/S	F/S/SU
SGE Social Sciences	2 of 2 / SGR Civics Requirement (HIST 151 or HIST 152 or CIV 100 or POLS 100, or POLS 210)	3	F/S	F/S/SU
Take Exit Exam	**After you apply for graduation, someone will reach out to schedule your exit exam.**			
	Total Credit Hours	**15**		
	Program Credit Hours	**120**		

* Recommended

Semester: F = Fall; S = Spring; SU = Summer

Information and course schedules may change. This is not a contract.

After the Fourth Semester you will have earned*:

- AS in Web Development
- Information Technology Management Certificate
- Web Application Development Certificate

After the Sixth Semester you will have earned*:

- Technology Database Management Systems Certificate

If you take the suggested CIS 438, after the Seventh Semester you will have earned*:

- Project Management Certificate

If you take the suggested CIS 372 and CIS 474, after the Seventh Semester you will have earned*:

- Data Analytics Certificate

* Communicate with your advisor to add these programs and apply for graduation once all requirements are met.