

## Computer Science

### Why should I major in Computer Science?

If you want to work in the information technology field, consider majoring in Iowa Western's Computer Science program. At Iowa Western, you will receive a strong foundation in computer technology concepts. The credits you earn are designed to transfer to four-year universities.



### What type of degree will I earn at Iowa Western if I enroll in this program?

Graduates of the two-year Computer Science program earn an Associate of Arts (AA) degree. Students may choose one of five concentrations:

- Game Creation
- Web Design
- Software Programming
- Networking
- Computer Forensics

Other degree options in similar fields of study include earning an Associate of Applied Science (AAS) degree in Application and Web Programming, or Network and System Administration; or an Associate of Arts (AA) degree in Computer Science – MIS; or an Associate of General Studies (AGS) degree in Computer Studies.

### If I major in Computer Science, can I transfer to a four-year college or university?

This program of study was designed to transfer to a four-year college or university. The credits you earn in this program can be applied toward a bachelor's degree. Students must work closely with their advisor from Iowa Western and also their advisor from the transfer university while they attend IWCC to ensure that all credits will transfer and the proper sequence of courses is met for their individual situation.

### What is the job outlook for Computer Science Transfer graduates and what type of jobs will I be qualified for?

This degree is intended to prepare students to transfer to a four-year, degree-granting institution.

**For More Information,  
contact the Admissions Office:  
712.325.3277 or 800.432.5852, ext. 3277  
or the Program Chair at 712.325.3271  
[www.iwcc.edu](http://www.iwcc.edu)**

## RECOMMENDED COURSE SEQUENCE

<b>First Semester</b>		<b>Cr.</b>
CSC 110	*Introduction to Computers	3
BCA 105	*Introduction to Information Technology	3
ENG 105	Composition I	3
	**CIT Concentration	6
		15
<b>Second Semester</b>		<b>Cr.</b>
	**CIT Concentration	9
ENG 106	Composition II	3
	Social Science Elective	3
	A.A. Mathematics Requirement (MAT 121 - 227)	3
		18
<b>Third Semester</b>		<b>Cr.</b>
	**CIT Concentration	6
SPC 112	Public Speaking	3
	Lab Science Requirement	4
	Humanities Elective	3
		16
<b>Fourth Semester</b>		<b>Cr.</b>
	Distributed Elective	3
	Mathematics/Science Elective	3
	Social Science Electives	6
	Humanities Electives	6
		18

\*Required courses for the program  
One elective must also satisfy the diversity requirement.

\*\*Students must choose one of the five following areas of concentration and take all of the required courses:

### Software Programming

CIS 161	*C++ Programming
CIS 164	*Advanced C++
CIS 171	*Java
CIS 175	*Java II
CIS 332	*Database and SQL
CIS 606	*Visual BASIC.NET
CIS 607	*Visual BASIC.NET II

### Computer Networking

NET 217	*CCNA Exploration 1
NET 218	*CCNA Exploration 2
NET 219	*CCNA Exploration 3
NET 220	*CCNA Exploration 4
NET 313	*Windows Server <u>OR</u>
NET 402	*LINUX Network Administration
NET 343	*Windows Directory Services <u>OR</u>
NET 412	*LINUX System Administration
NET 612	*Fundamentals of Network Security

### Game Creation

ART 133	*Drawing I <u>OR</u>
ART 151	*Design I
CIS 161	*C++ Programming
CIS 164	*Advanced C++
CIS 207	*Fundamentals of Web Programming
CSC 192	*Flash Animation
CSC 190	*Game Programming 2-D
CSC 194	*Computer Game Creation
GRA 137	*Digital Design <u>OR</u>
GRA 140	*Digital Imaging

### Web Design

BCA 184	*Comprehensive Web Page Design Software
ART 151	*Design I
CIS 207	*Fundamentals of Web Programming
CIS 227	*Advanced Web Design
CSC 192	*Flash Animation
GRA 140	*Digital Imaging
	*Six credits of Business/Marketing Electives

### Computer Forensics and Security

CRJ 230	*Evidence
CRJ 240	*Criminal Investigation
NET 217	*CCNA Exploration 1
NET 612	*Fundamentals of Network Security
NET 730	*Computer Forensics and Investigation
NET 790	*PC Support I
NET 791	*PC Support II

67 semester hours required