

# COMPUTER SOFTWARE DEVELOPMENT

Design applications with a purpose! Change solutions one line of code at a time! Let's create something Life. Changing!

YEAR ONE					
TERM	CLASS	NAME	CREDITS	DAYS	TIME
FALL	CIS 604	Visual Basic	3	MTWTH	08:00 - 09:50
WINTER	CIS 110	Introduction to Computers	3	MW	08:00 - 09:50
	CIS 351	Introduction to Database Concepts	3	TTH	08:00 - 09:50
SPRING	BCA 185	Beginning Webpage Development	3	MW	08:00 - 09:50
	CIS 281	Mobile Development	3	TTH	08:00 - 09:50

YEAR TWO					
TERM	CLASS	NAME	CREDITS	DAYS	TIME
FALL	CIS 121	Intro to Programming Logic	3	MTWTH	08:00 - 09:50
	ADM 218	Initiating the Career Search	1	MW	10:00 - 10:50
WINTER	CIS 171	Java	3	MTWTH	08:00 - 09:50
SPRING	CIS 598	Python Programming	3	MTWTH	08:00 - 09:50

DID YOU KNOW THAT IF YOU'RE TAKING INDIAN HILLS CLASSES WHILE STILL IN HIGH SCHOOL, YOU ALREADY QUALIFY FOR A

**\$600 SCHOLARSHIP TO INDIAN HILLS**

CHECK OUT THE MINIMUM QUALIFICATIONS AND APPLY TODAY: [WWW.INDIANHILLS.EDU/SCHOLARSHIPS](http://WWW.INDIANHILLS.EDU/SCHOLARSHIPS)



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If you have questions or complaints related to compliance with this policy, please contact Kristen Parks, Director of Human Resources/Equity Coordinator, 525 Grandview Ave, Ottumwa, IA 52501, (641) 683-5108; Chris Bowser, Executive Dean, Student Services, (students), (641) 683-5159; Darlas Shockley, Executive Dean, Arts & Sciences (students with disabilities), (641) 683-5174; or the U.S. Department of Education, Citigroup Center, 500 W. Madison, Suite 1475, Chicago, IL 60661, phone number (312) 730-1560, fax (312) 730-1576.



# Computer Software Development Curriculum

**ASSOCIATE OF APPLIED SCIENCE DEGREE** | Location: Ottumwa Campus | Start Terms: Fall, Winter, Spring and Summer Terms

<b>TERM I</b>	<b>TOTAL CREDITS: 13</b>	
ADM 218	Initiating the Career Search	1 <input checked="" type="checkbox"/>
BCA 185	Beginning Webpage Development	3 <input checked="" type="checkbox"/>
CIS 121	Intro to Programming Logic	3 <input checked="" type="checkbox"/>
CIS 453	PLTW CSE I	3 <input type="checkbox"/>
OR		
CIS 604	Visual Basic	3 <input checked="" type="checkbox"/>
CSC 110	Introduction to Computers	3 <input checked="" type="checkbox"/>

<b>TERM II</b>	<b>TOTAL CREDITS: 11</b>	
CIS 171	Java	3 <input checked="" type="checkbox"/>
CIS 402	Cobol	3 <input type="checkbox"/>
CIS 351	Introduction to Database Concepts	3 <input checked="" type="checkbox"/>
CIS 845	Quality Assurance	2 <input type="checkbox"/>

<b>TERM III</b>	<b>TOTAL CREDITS: 12</b>	
CIS 175	Java II	3 <input type="checkbox"/>
CIS 338	SQL/Oracle	3 <input type="checkbox"/>
CIS 455	PLTW CSE II	3 <input type="checkbox"/>
OR		
CIS 598	Python Programming	3 <input checked="" type="checkbox"/>
XXX XXX	Emphasis Option	3 <input type="checkbox"/>

<b>TERM IV</b>	<b>TOTAL CREDITS: 10-12</b>	
CIS 181	Java III	3 <input type="checkbox"/>
XXX XXX	Approved Communications Elective	3 <input type="checkbox"/>
XXX XXX	Approved Culture Elective	3 <input type="checkbox"/>
XXX XXX	Emphasis Option	3 <input type="checkbox"/>
OR		
XXX XXX	Approved Communications Elective	3 <input type="checkbox"/>
XXX XXX	Approved Culture Elective	3 <input type="checkbox"/>
CIS 932	Internship	4 <input type="checkbox"/>

<b>TERM V</b>	<b>TOTAL CREDITS: 12</b>	
CIS 169	C#	3 <input type="checkbox"/>
CIS 501	Intro to Business Analysis	3 <input type="checkbox"/>
XXX XXX	Approved Mathematical Reasoning Course	3 <input type="checkbox"/>
XXX XXX	Emphasis Option	3 <input type="checkbox"/>

<b>TERM VI</b>	<b>TOTAL CREDITS: 12-13</b>	
ADM 219	Managing the Career Search	1 <input type="checkbox"/>
CIS 174	Advanced C# Programming	3 <input type="checkbox"/>
XXX XXX	Emphasis Option	3 <input type="checkbox"/>
XXX XXX	Emphasis Option	3 <input type="checkbox"/>
CIS 181	Java III	3 <input type="checkbox"/>
OR		
CIS 850	Programming Field Project I	2 <input type="checkbox"/>

<b>TERM VII</b>	<b>TOTAL CREDITS: 11-12</b>	
CIS 618	Advanced .Net Programming	3 <input type="checkbox"/>
XXX XXX	Approved Scientific Systems Course	3 <input type="checkbox"/>
XXX XXX	Emphasis Option	3 <input type="checkbox"/>
CIS 851	Programming Field Project II	2 <input type="checkbox"/>
OR		
XXX XXX	Emphasis Option	3 <input type="checkbox"/>

## EMPHASIS OPTIONS REQUIRED COURSES

<b>MOBILE DEVELOPMENT</b>		
CIS 281	Mobile Development	3 <input checked="" type="checkbox"/>
CIS 284	Advanced Mobile Development	3 <input type="checkbox"/>
CIS 456	PLTW CSA I	3 <input type="checkbox"/>
CIS 457	PLTW CSA II	3 <input type="checkbox"/>
XXX XXX	Approved Emphasis Electives	4-6 <input type="checkbox"/>

<b>WEBPAGE DEVELOPMENT</b>		
CIS 198	JavaScript	3 <input type="checkbox"/>
CIS 206	Web Scripting	3 <input type="checkbox"/>
CIS 216	Web Design and Management	2 <input type="checkbox"/>
CIS 226	Advanced Web Design	2 <input type="checkbox"/>
CIS 334	PHP/APACHE/MYSQL	3 <input type="checkbox"/>
XXX XXX	Approved Emphasis Electives	3 <input type="checkbox"/>

<b>MAINFRAME PROGRAMMING</b>		
CIS 344	Database Programming With DB2	3 <input type="checkbox"/>
CIS 412	Cobol II	3 <input type="checkbox"/>
CIS 421	Cobol III	3 <input type="checkbox"/>
CIS 486	Introduction to 4GL Programming	3 <input type="checkbox"/>
XXX XXX	Approved Emphasis Electives	4-6 <input type="checkbox"/>

**ADDITIONAL EMPHASIS OPTIONS AVAILABLE**  
ACC 121, ACC 122, BUS 104, BUS 128, CIS 183, CIS 750, GIS 190

