

## Computer Information Systems - Web Game Programming Track - Associate/Bachelor

This is a recommended course rollout for the program of study indicated. Take courses in the order shown. It is the student's responsibility to verify course selections using Degree Navigator to ensure all graduation requirements are met. If this rollout does not represent what you have taken in the past, seek advisement from your Associate Dean.

### Associate Degree Plan of Study

Completed	1 <sup>st</sup> Semester	Credit	Title	Prerequisite
	<b>BUSN 115</b>	3	Introduction to Business & Technology	
	<b>COMP 100</b>	2	Computer Applications for Business w/Lab	
	<b>ENGL 108</b>	3	English Composition	
	<b>CIS 115</b>	3	Logic and Design	
	<b>COLL 148 (Institute Credit)</b>	3	Critical Thinking & Problem Solving	
		<b>14</b>		
	<b>2<sup>nd</sup> Semester</b>			
	<b>CIS 170B</b>	4	Programming with Lab	CIS115 & COMP100
	<b>CIS 206</b>	4	Architecture and Operating Systems with Lab	COMP100
	<b>MATH 114</b>	4	Algebra for the College Student	
	<b>SPCH 275</b>	3	Public Speaking	ENGL108
		<b>15</b>		
	<b>3<sup>rd</sup> Semester</b>			
	<b>MATH 221</b>	4	Statistics for Decision Making	MATH114
	<b>CIS 246</b>	4	Connectivity with Lab	CIS206
	<b>CIS 247A</b>	4	Object Oriented Programming with Lab	CIS170B
	<b>ENGL 135</b>	4	Advanced Composition	ENGL108
		<b>16</b>		
	<b>4<sup>th</sup> Semester</b>			
	<b>CARD 207 (Institute Credit)</b>	2	Career Development	29 earned credit hours
	<b>CIS 236</b>	4	Introduction to Database with Lab	CIS247A
	<b>CIS 281</b>	4	Web Interface Design with Lab	CIS247A
	<b>Humanities Elective 1</b>	3	100/200 level History or Philosophy Course or 100/200 Level Literature or Arts Course	ENGL135
	<b>Social Science Elective 1</b>	3	Choose PSYC110, SOCS185, or SOCS190	
		<b>16</b>		
	<b>5<sup>th</sup> Semester</b>			
	<b>ACCT 201 (Bachelor Course)</b>	4	Essentials of Accounting	MATH114
	<b>CIS 266</b>	3	Structured Analysis and Design	CIS236
	<b>SEC 280</b>	3	Principles of Information Systems Security	CIS246
	<b>Natural Science Elective</b>	3	Choose any Natural Science Elective	MATH114
	<b>Humanities Elective 2 (Bachelor Course)</b>	3	300/400 level History or Philosophy Course or Literature or Arts Course. (If you selected literature/art at the 200 level, you must select history or philosophy at the 300/400 level.	ENGL135
		<b>16</b>		
		<b>70</b>	<b>Credits needed for Associate Degree Completion (Includes 5 Institutional Credits - COLL148 and CARD207)</b>	

<b>Bachelor Degree Plan of Study</b>				
<b>Completed</b>	<b>6<sup>th</sup> Semester</b>	<b>Credit</b>	<b>Title</b>	<b>Prerequisite</b>
	<b>CIS 407A</b>	4	Web Applications Development with Lab	CIS236 & CIS281
	<b>CIS 340</b>	3	Object Oriented Analysis and Design	CIS266
	<b>WBG-340</b>	4	Programming Multimedia for the Web w/Lab	CIS 281
	<b>Communication Skills Elective 2</b>	4	Applied Writing - Choose ENGL216 or ENGL227	ENGL108
	<b>General Education Elective 1</b>	3	Choose any 300 or 400 Humanities or Social Science Course not previously taken	
		<b>18</b>		
	<b>7<sup>th</sup> Semester</b>			
	<b>CIS 355</b>	4	Business Application Programming with Lab	CIS236 & CIS247A
	<b>ECON 312</b>	3	Principles of Economics	
	<b>MGMT 404</b>	4	Project Management	BUSN115& <b>Senior Standing*</b>
	<b>WBG-370</b>	4	Game Development w/Lab	CIS 281
	<b>Social Science Elective 2</b>	3	Choose any 300 or 400 level PSYC or SOCS course (must differ from SS Elective 1)	
	<b>CARD415 (Institute Credit)</b>	1	Career Development Strategies	<b>Senior Standing*</b>
		<b>19</b>		
	<b>8<sup>th</sup> Semester</b>			
	<b>CIS 474</b>	1	Computer Information Systems Senior Project II	MGMT404 & <b>Senior Standing*</b>
	<b>CIS 477</b>	2	Computer Information Systems Senior Project II	CIS 477
	<b>HUMN 432</b>	3	Technology, Society, & Culture	<b>Senior Standing*</b>
	<b>WBG-410</b>	4	Dynamic Web Site Development and Database Integration w/Lab	WBG-340
	<b>WBG-450</b>	4	Multiplayer Online Game Development	WBG-340 and WBG-370
	<b>General Education Elective 2</b>	3	Choose any 300 or 400 Humanities or Social Science Course not previously taken	
		<b>16</b>		
	<b>ACCT 201 (Bachelor Course)</b>	<b>4</b>	<b>From Associate side</b>	
	<b>Humanities Elective 2</b>	<b>3</b>	<b>From Associate side</b>	
		<b>130</b>	<b>Bachelors Degree Completion (Includes 6 Institutional Credits - COLL148, CARD207, and CARD415)</b>	
	<b>AASCIS</b>		<b>70 Credits needed for degree completion.</b>	
	<b>BSCIS</b>		<b>131 Credits needed for degree completion.</b>	
	<b>*Senior Standing = completion of 89 credit hours.</b>			

Revised 6/12/2009