

**KISHWAUKEE COLLEGE**  
**Computer Information Systems Degree #437 Programming Option**  
**Proposed Credit Hours 60-61**

Catalog Year: 2017

<b>Course</b>	<b>Title</b>	<b>Credit Hours</b>
<b>Fall Semester - First Year</b>		
CIS 101	Introduction to Computers	<u>3</u>
CIS 111	Logic and Program Design	<u>3</u>
CIS 115	Internet Fundamentals	<u>2</u>
CIS 118	Foundations of Web Site Development	<u>3</u>
ENG 103	Composition I <b>OR</b>	
ENG 109	Intro to Technical Report Writing	<u>3</u>
	<b>Total</b>	<b>14</b>
<b>Spring Semester - First Year</b>		
CIS 119	JavaScript	<u>3</u>
CIS 123	Management Information Systems	<u>3</u>
CIS 140	Networking Fundamentals	<u>4</u>
COM 100	Oral Communication	<u>3</u>
MAT 150	College Algebra <b>OR</b>	
MAT 210	Finite Mathematics	<u>3-4</u>
	<b>Total</b>	<b>16-17</b>
<b>Fall Semester - Second Year</b>		
CIS 150	C++ Programming I	<u>3</u>
CIS 160	Java Programming I	<u>3</u>
CIS 170	Introduction to UNIX	<u>3</u>
	Humanities Elective	<u>3</u>
	Social Science Elective	<u>3</u>
	<b>Total</b>	<b>15</b>
<b>Spring Semester - Second Year</b>		
CIS 236	CIS Project <b>OR</b>	
CIS 296	CIS Internship	<u>3</u>
CIS 237	Database Management and SQL	<u>3</u>
CIS 250	C++ Programming II	<u>3</u>
CIS 260	Java Programming II	<u>3</u>
CIS 265	Server-Side Programming	<u>3</u>
	<b>Total</b>	<b>15</b>
	<b>Program Total</b>	<b>60-61</b>