KISHWAUKEE COLLEGE

Computer Programming Certificate #451

Current Credit Hours 27/Proposed Credit Hours 27

Catalog Year: 2017

Course		Title	Current Hours	Proposed Hours	
Fall Semester - First Year					
CIS	101	Introduction to Computers OR			
CIS	123	Management Information Systems	3	3	
CIS	110	Visual Basic Programming OR		delete option	▌
CIS	160	Java Programming I	3	3	
CIS	111	Logic and Program Design	3	3	
CIS	150	C++ Programming I	3	3	
		Total	**12**	**12**	
Spring Semester - First Year					
CIS	119	JavaScript	0	3	▌
CIS	237	Database Management and SQL	3	3	
CIS	210	Visual Basic Programming II OR		delete option	▌
CIS	260	Java Programming II	3	3	
CIS	238	Systems Analysis and Design	3	0	▌
CIS	250	C++ Programming II	3	3	
CIS	265	Server-Side Programming	0	3	▌
CIS Elective			3	0	
		Total	**15**	**15**	
		Program Total	**27**	**27**	