

KISHWAUKEE COLLEGE
Computer Programming Certificate #451

Credit Hours 27

Catalog Year: 2017

| Course | Title | Credit Hours |
|-------------------------------------|-------------------------------------|---------------------|
| Fall Semester - First Year | | |
| CIS 101 | Introduction to Computers OR | |
| CIS 123 | Management Information Systems | <u>3</u> |
| CIS 111 | Logic and Program Design | <u>3</u> |
| CIS 150 | C++ Programming I | <u>3</u> |
| CIS 160 | Java Programming I | <u>3</u> |
| | Total | 12 |
| | | |
| Spring Semester - First Year | | |
| CIS 119 | JavaScript | <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> |
| | Total | 15 |
| | | |
| | Program Total | 27 |