

**COMPUTER PROGRAMMING - APPLICATIONS DEVELOPMENT
- JAVA - AAS**

YEAR 1

First Semester

LEAD	1370	Workforce Leadership with Critical Thinking*	3
ENGL	1301	Composition I	3
MATH	1314	College Algebra	3
BCIS	1405	Business Computer Applications	4
COSC	1436	Programming Fundamentals I (with Java)	4

Second Semester

17

MATH	1324	Finite Mathematics with Applications	3
COSC	1437	Programming Fundamentals II (with Java)	4
or [ITSE	1346	Database Theory and Design	3
ITSE	1345	Introduction to Oracle SQL	3
XXXX	#3##	General Education Elective	3

13

Third Semester

XXXX	#3##	Approved Humanities/Fine Arts/Gen. Ed. Elective	3
------	------	---	---

3

YEAR 2

First Semester

ITSE	1456	Extensible Markup Language (XML)	4
or [COSC	2336	Programming Fundamentals III (with Java)	3
ITSE	2354	Advanced Oracle PL/SQL	3
INEW	2438	Advanced Java Programming	4
XXXX	#3##	Program Approved Business Elective	3

14

Second Semester

INEW	2434	Advanced Web Programming	4
XXXX	#3##	Social/Behavioral Science/General Ed Elective	3
or [ITSE	1380	Cooperative Education – ComputerProgramming/ Programmer, General*	3
INEW	2332	Comprehensive Software Project: Coding, Testing, and Implementation*	3
XXXX	#3##	Department Approved Business Elective	3

13

Program Total

60