



Name _____
NPC ID _____
Total Credits <b>64</b>

**Associate of Applied Science – CIS – Software Development (AAS) - 2026-27 Catalog** Blocks are suggested for full-time students, but may be adjusted based on course scheduling, student employment, or individual needs. Courses **highlighted** lead to the Certificate of Proficiency.

### First Semester

X	Course	Notes	credits
	ENL 101 College Composition I *	Requires Placement	3
	<b>CIS 105 Computer Application and Information Tech*</b>	Requires Placement	3
	Natural Science *	Requires Placement	4
	Arts & Humanities OR Social & Behavioral Science*	Requires Placement	3
	MAT 112 or higher *	Requires Placement <b>OR</b> Math 109-Prerequisite	3

### Second Semester

X	Course	Notes	credits
	<b>CIS 111 Introduction to Programming *</b>	CIS 105 or CIS 107 and MAT 112- Prerequisite	3
	CIS 130 Information Security Fundamentals *	CIS 105 or CIS 107 or Instructor Permission-Prerequisite	3
	<b>CIS 187 Introduction to Web Development *</b>	CIS 105- Prerequisite	3
	CIS 245 Database Management Concepts *	CIS 105 or CIS 107 or Instructor Permission-Prerequisite	3
	Elective	Unduplicated courses at the 100-level or higher	3

### Summer Session

X	Course	Notes	credits
	Elective	Unduplicated courses at the 100-level or higher	3

### Third Semester

X	Course	Notes	credits
	ENL 102 College Composition II * <b>OR</b> Communications	ENL 101-Prerequisite	3
	CIS 112 Introduction to Programming II *	CIS 111 or Instructor Permission - Prerequisite	3
	<b>CIS 190 JavaScript Programming *</b>	CIS 111 & CIS 187 or Instructor Permission - Prerequisites	3
	<b>CIS 217 Java Programming Introductory *</b>	CIS 111 or Instructor Permission -Prerequisite	3
	CIS 219 Human Computer Interaction		3

### Fourth Semester

X	Course	Notes	credits
	CIS 121 Critical Thinking in IT		3
	CIS 226 Programming in C++ <b>OR</b> CIS 227 C# Programming	CIS 111 or Instructor Permission- Prerequisite	3
	<b>CIS 218 Mobile Application Development *</b>	CIS 217 - Prerequisite	3
	CIS 280 Systems Analysis and Design	CIS 111 or Instructor Permission - Prerequisite	3
	Elective	Unduplicated courses at the 100-level or higher	3

**Software Development Certificate of Proficiency**

