Software Development

The Angelina College Software Development Programs prepare students to create, design, program, deploy, and support software. Students receive hands-on training and have the opportunity to develop programming skills. The courses in this degree are intended to prepare students for employment in software development careers, such as web development, application development, computer programming, and software development.

Program Learning Outcomes (PLO)

PLO 1: Justify software development lifecycle decisions.

PLO 2: Apply collaborative communication skills in software development.

PLO 3: Implement continuous software development strategies.

PLO 4: Explain the purpose of various programming paradigms.

PLO 5: Apply practical usage of programming paradigms.

PLO 6: Demonstrate knowledge of industry-standard principles and practices in software development.

Courses Measuring the Achievement of Program Learning Outcomes

Course	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6
ITSE 1311 (AAS)				X		
ITSE 1329 (AAS)	X					
ITSE 2309 (AAS)		X				
INEW 2338 (AAS)					X	
ITSE 2343 (AAS)						X
ITSE 2302 (AAS)			X			

SOFTWARE DEVELOPMENT RECOMMENDED ACADEMIC PLAN

1ST YEAR, 1ST SEMESTER			Credit Hours	✓
Term 1				
ITSC	1305	Introduction to PC Operating Systems	3	☐
ITSE	1311	Beginning Web Programming	3	☐
STSU	0300	Student Success	0	☐
ITSE	1329	Programming Logic and Design	3	☐
Term 2				
ITSE	2317	Java Programming	3	☐
MATH	1342	Elementary Statistics	3	☐

1ST YEAR, 2ND SEMESTER				
Term 1				
ITSE	2309	Database Programming	3	☐
ITSY	1300	Fundamentals of Information Security	3	☐
Term 2				
ITSE	1359	Introduction to Scripting Languages	3	☐
ITSY	1342	Information Technology Security	3	☐
INEW	2338	Advanced Java Programming	3	☐

1ST YEAR, SUMMER SEMESTER				
Term 1				
ENGL	1301	Composition I	3	☐
Term 2				
ARTS	1301	Art Appreciation	3	☐

2ND YEAR, 1ST SEMESTER				
Term 1				
ITSE	1307	Introduction to C++ Programming	3	☐
ITSE	2343	Advanced Mobile Programming	3	☐
Term 2				
ITSE	2345	Data Structures	3	☐
SPCH	1318	Interpersonal Communication	3	☐
☞ *Apply for Graduation*				☐

2ND YEAR, 2ND SEMESTER				
Term 1				
ITSE	2386	Internship - Computer Programming/Programmer	3	☐
CPMT	1343	Microcomputer Architecture	3	☐
Term 2				
ITSE	2302	Intermediate Web Programming	3	☐
SOCI	1301	Introduction to Sociology	3	☐
✹ *Earned:*		*Associate of Applied Science in Software Development*	**Total Hours**	**60**

*INEW 2332 Comprehensive Software Project: Coding, Testing, and Implementation may replace ITSE 2386 upon approval.