

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

<u>Course</u>	<u>PLO 1</u>	<u>PLO 2</u>	<u>PLO 3</u>	<u>PLO 4</u>	<u>PLO 5</u>	<u>PLO 6</u>
ITSE 1329 (AAS)	X					
ITSE 1359 (AAS)		X				
ITSE 2302 (AAS)			X			
ITSE 1311 (AAS)				X		
INEW 2338 (AAS)					X	
ITSE 2343 (AAS)						X

SOFTWARE DEVELOPMENT RECOMMENDED ACADEMIC PLAN

1ST YEAR, 1ST SEMESTER				Credit Hours	✓
<i>Term 1</i>					
ITSC	1305	Introduction to PC Operating Systems		3	<input type="checkbox"/>
ITSE	1311	Beginning Web Programming		3	<input type="checkbox"/>
STSU	0300	Student Success		0	<input type="checkbox"/>
ITSE	1329	Programming Logic and Design		3	<input type="checkbox"/>
<i>Term 2</i>					
ITSE	2317	Java Programming		3	<input type="checkbox"/>
MATH	1342	Elementary Statistics		3	<input type="checkbox"/>
				15	
1ST YEAR, 2ND SEMESTER					
<i>Term 1</i>					
ITSE	2309	Database Programming		3	<input type="checkbox"/>
ITSY	1300	Fundamentals of Information Security		3	<input type="checkbox"/>
<i>Term 2</i>					
ITSE	1359	Introduction to Scripting Languages		3	<input type="checkbox"/>
ITSY	1342	Information Technology Security		3	<input type="checkbox"/>
INEW	2338	Advanced Java Programming		3	<input type="checkbox"/>
* Earned: Level 1 Certificate - Computer Programming				15	
1ST YEAR, SUMMER SEMESTER					
<i>Term 1</i>					
ENGL	1301	Composition I		3	<input type="checkbox"/>
<i>Term 2</i>					
ARTS	1301	Art Appreciation		3	<input type="checkbox"/>
				6	
2ND YEAR, 1ST SEMESTER					
<i>Term 1</i>					
ITSE	1307	Introduction to C++ Programming		3	<input type="checkbox"/>
ITSE	2343	Advanced Mobile Programming		3	<input type="checkbox"/>
<i>Term 2</i>					
ITSE	2345	Data Structures		3	<input type="checkbox"/>
SPCH	1318	Interpersonal Communication		3	<input type="checkbox"/>
👉 Apply for Graduation				12	
2ND YEAR, 2ND SEMESTER					
<i>Term 1</i>					
ITSE	2386	Internship - Computer Programming/Programmer		3	<input type="checkbox"/>
CPMT	1343	Microcomputer Architecture		3	<input type="checkbox"/>
<i>Term 2</i>					
ITSE	2302	Intermediate Web Programming		3	<input type="checkbox"/>
SOCI	1301	Introduction to Sociology		3	<input type="checkbox"/>
				12	
* 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.