

Bachelor of Applied Technology (BAT) in Software Development**CIP: 11.0201**

120 Credit Hours (first 60 hours is AAS in Software Development)

Duration: 160 weeks

THIRD YEAR**First Semester**

			Prerequisite(s)	Lec	Lab	Ext	Cont	Credit
<u>ENGL</u>	<u>2311</u>	<u>Technical and Business Writing</u> (See <u>Communication</u> options)	ENGL 1301	3	0	0	48	3
SDEV	3310	API Development	COSC 2436 & ITSE 1350	2	2	0	64	3
SDEV	3320	Automation in Testing and Deployment	COSC 2436 & ITSE 1350	2	2	0	64	3
SDEV	3330	Development Processes & Methodologies	COSC 2436 & ITSE 1350	2	2	0	64	3
<u>GEN ED</u>		<u>Creative Arts</u> course		3	0	0	48	3
Total Hours				12	6	0	288	15

Second Semester

				Lec	Lab	Ext	Cont	Credit
<u>PHYS</u>	<u>1415</u>	<u>Physical Science I</u> (See <u>Life & Physical Sciences</u> options)		3	3	0	96	4
SDEV	3340	Advanced Data Structures and Algorithm Analysis	COSC 2436	2	2	0	64	3
SDEV	3350	Coding Best Practices	COSC 2436 & ITSE 1350	3	1	0	64	3
SDEV	3360	Cloud-Enabled Software Development	ITSE 1311, ITSE 1359 & ITSE 1346	2	2	0	64	3
Total Hours				10	8	0	288	13

Third Semester (Summer)

				Lec	Lab	Ext	Cont	Credit
<u>ENVR</u>	<u>1401</u>	<u>Environmental Science I</u> (See <u>Life & Physical Sciences</u> options)		3	3	0	96	4
<u>GOVT</u>	<u>2305</u>	<u>Federal Government</u> (Federal constitution and topics)		3	0	0	48	3
Total Hours				6	3	0	144	7

FOURTH YEAR**First Semester**

				Lec	Lab	Ext	Cont	Credit
<u>HIST</u>	<u>1301</u>	<u>United States History I</u> (See <u>American History</u> options)		3	0	0	48	3
SDEV	4310	Connected Software	SDEV 3310	2	2	0	64	3
SDEV	4320	Current Trends in Software Development	SDEV 3310	2	2	0	64	3
SDEV	4330	Senior Team Project: Planning and Design	SDEV 3330, SDEV 3340 & SDEV 3350	1	3	0	64	3
Total Hours				8	7	0	240	12

Second Semester

				Lec	Lab	Ext	Cont	Credit
<u>GOVT</u>	<u>2306</u>	<u>Texas Government</u> (Texas constitution and topics)		3	0	0	48	3
<u>HIST</u>	<u>1302</u>	<u>United States History II</u> (See <u>American History</u> options)		3	0	0	48	3
<u>KINE</u>	<u>1164</u>	<u>Introduction to Physical Fitness and Wellness</u> (See <u>Collin</u> options)		0	3	0	48	1
SDEV	4340	Senior Team Project: Coding, Testing, and Implementation	SDEV 4330	1	3	0	64	3
		ELECTIVE *		2	2	0	64	3
Total Hours				9	8	0	272	13
AAS Totals				0	0	0	0	0
BAT Total				45	32	0	1232	60

* Elective (3 credit hours): SDEV 4350 or SDEV 4360