BS in Computer Information Technology - 681   8 Semester Plan   2020/2021 Catalog

Generic CIT Degree		Cyber Security Focus		Database Focus		Networking Focus	
1st Semester		**1st Semester**		**1st Semester**		**1st Semester**	
CSE 110 Prog. Building Blocks	2	CSE 110 Prog. Building Blocks	2	CSE 110 Prog. Building Blocks	2	CSE 110 Prog. Building Blocks	2
WDD 130 Web Fundamentals	2	WDD 130 Web Fundamentals	2	WDD 130 Web Fundamentals	2	WDD 130 Web Fundamentals	2
CIT 171 Intro to Cyber Security	2	CIT 171 Intro to Cyber Security	2	CIT 171 Intro to Cyber Security	2	CIT 171 Intro to Cyber Security	2
2nd Semester		**2nd Semester**		**2nd Semester**		**2nd Semester**	
CIT 112 (2) OS Fund or CIT 151 (3) Linux	2 or 3	CIT 112 (2) OS Fund or CIT 151 (3) Linux	2 or 3	CIT 112 (2) OS Fund or CIT 151 (3) Linux	2 or 3	CIT 112 (2) OS Fund or CIT 151 (3) Linux	2 or 3
CSE 111 Programming with Functions	2	CSE 111 Programming with Functions	2	CSE 111 Programming with Functions	2	CSE 111 Programming with Functions	2
CIT 240 Networking	3	CIT 240 Networking	3	CIT 240 Networking	3	CIT 240 Networking	3
3rd Semester		**3rd Semester**		**3rd Semester**		**3rd Semester**	
CSE 121B JavaScript Language	1	CSE 121B JavaScript Language	1	CSE 121B JavaScript Language	1	CSE 121B JavaScript Language	1
CIT 225 Database Design and Dev.	3	CIT 225 Database Design and Dev.	3	CIT 225 Database Design and Dev.	3	CIT 225 Database Design and Dev.	3
CIT 241 Network Design I	3	CIT 241 Network Design I	3	CIT 241 Network Design I	3	CIT 241 Network Design I	3
4th Semester		**4th Semester**		**4th Semester**		**4th Semester**	
CIT 262 IT Management and DevOps	3	CIT 262 IT Management and DevOps	3	CIT 262 IT Management and DevOps	3	**CIT 341 Network Design II	3
CIT 270 Systems Security I	3	CIT 270 Systems Security I	3	CIT 270 Systems Security I	3	CIT 270 Systems Security I	3
5th Semester		**Elective	3	**5th Semester**		**5th Semester**	
CIT 352 Operation Systems I	3	**5th Semester**		CIT 352 Operation Systems I	3	CIT 352 Operation Systems I	3
CIT 380 Project Management	3	CIT 352 Operation Systems I	3	CIT 380 Project Management	3	CIT 380 Project Management	3
CIT 495 Practicum	1	CIT 495 Practicum	1	CIT 495 Practicum	1	CIT 495 Practicum	1
**Elective	3	CIT 380 Project Management	3	**Elective	3	CIT 262 IT Management and DevOps	3
6th Semester		**6th Semester**		**6th Semester**		**6th Semester**	
CIT 353 Operating Systems II	3	CIT 353 Operating Systems II	3	CIT 353 Operating Systems II	3	CIT 353 Operating Systems II	3
CIT 325 DB Prog. or CIT 326 DB Admin	3	CIT 325 DB Prog. or CIT 326 DB Admin	3	CIT 325 Database Programming	3	CIT 325 DB Prog. or CIT 326 DB Admin	3
CIT 360 Object Oriented Dev or		CIT 360 Object Oriented Dev or		CIT 360 Object Oriented Dev or		CIT 360 Object Oriented Dev or	
361 Object Adv Scripting	3	361 Object Adv Scripting	3	361 Object Adv Scripting	3	361 Object Adv Scripting	3
7th Semester		**7th Semester**		**7th Semester**		**7th Semester**	
**Elective	3	**CIT 499R Special Topics	3	**CIT 326 Database Administration	3	**CIT 345 Wireless Networking	3
**Elective	3	**CIT 470 Systems Security II	3	**CIT 327 Data Warehousing	3	**CSE 354 Computer Networks	3
8th Semester		**8th Semester**		**8th Semester**		**8th Semester**	
CIT 498 or CIT 490 Senior		CIT 498 or CIT 490 Senior		CIT 498 or CIT 490 Senior		CIT 498 or CIT 490 Senior	
Project/Internship	3	Project/Internship	3	Project/Internship	3	Project/Internship	3
TOTAL	**55**	**TOTAL**	**55**		**55**		**55**

This is only a recommendation - Students can decide when to take their classes.

CSE 121b can be taken 1st block during the same semester as WDD 230.

**Elective from any CIT/WDD/CSE/ECEN course 200 level or higher not used as part of CIT core. (Take 9 credits)

  CIT Courses: https://www.byui.edu/catalog#/courses?group=Computer%20Information%20Technology

  WDD Courses: https://www.byui.edu/catalog#/courses?group=Web%20Design%20and%20Development

  CSE Courses: https://www.byui.edu/catalog#/courses?group=Computer%20Science

  ECEN Courses: https://www.byui.edu/catalog#/courses?group=Electrical%20Engineering