

Recommended Pattern of Study for Programs offered by Division of Life Science
For students admitted in 2016/17
 (Last updated: 30 May 2018)

BISC Recommended pathway		Note	Cr.	
Year 1 Fall 2016/17	LIFS 1901	General Biology I ^{note1}	R+S ^{note2} 3	
	LIFS 1903	Laboratory for General Biology I ^{note1}	R+S ^{note2} 1	
	CHEM 1010 OR CHEM 1020	General Chemistry IA OR General Chemistry IB	R+S ^{note2} 3	
	CHEM 1050	Laboratory for General Chemistry I	R+S ^{note2} 1	
	MATH 1013	Calculus I	S ^{note2} 3	
	HLTH 1010	Healthy Lifestyle	0	
	SCIE 1000	Science School Induction	S ^{note2} 0	
	University Core	Common core courses	CC 6	
	Elective course to be offered	1000 level: LIFS 1030	E 0	
	Term Load:			17
Year 1 Spring 2016/17	LIFS 1902	General Biology II	R+S ^{note2} 3	
	LIFS 1904	Laboratory for General Biology II	R+S ^{note2} 1	
	CHEM 1030	General Chemistry II	R+S ^{note2} 3	
	CHEM 1055	Laboratory for General Chemistry II	R+S ^{note2} 1	
	MATH 1013	Calculus I	S ^{note2} 3	
	HLTH 1010	Healthy Lifestyle	0	
	SCIE 1000	Science School Induction	S ^{note2} 0	
	University Core	Common core courses	CC 6	
	Elective course to be offered	2000-Level: LIFS 2010/2070/2720(Lab)/2820	E 0	
	Term Load:			13
Year 2 Fall 2017/18	LIFS 2210	Biochemistry I	R+S ^{note2} 3	
	LIFS 2060	Biodiversity	R 3	
	PHYS 1001	Physics and The Modern society	CC+S 3	
	University Core	Common core courses	CC 6	
	Elective course to be offered	2000-Level: LIFS 2010/2070/2720(Lab)/2820	E 0	
	Term Load:			15
	Year 2 Spring 2017/18	LIFS 2040	Cell Biology	R 3
		LIFS 2220	Biochemistry II	R 3
		LIFS 2240	Cell Biology Laboratory	R 3
		LIFS 2080	Plant Biology	R 3
University Core		Common core courses	CC 3	
Elective course to be offered		LIFS 2011/2240(Lab with 2040)/LIFS 2280(Lab of 2080)/BIPH 2010	E 0	
Term Load:			15	
Year 3 Fall 2018/19		COMP 1001 OR 1021 OR 1022P or 1022Q or 2011	MultimediaInternet Comp/Intro to Computer Science/Intro to Comp with Java/Intro to Comp with Excel VBA/Intro to Object-oriented programming	S ^{note2} 3
		LANG 2010	English for Science I	S ^{note2} 3
		LIFS 3160	Ecology	R 3
	University Core	Common core courses	CC 6	
	Elective course to be offered	3000-level: LIFS 3002/3010/3110(Lab)/3210(with Lab 3110)/3130/3140/3330(Lab of 3130)/ENVS 3001/BIPH3010	E 0	
	Term Load:			15
	Year 3 Spring 2018/19	LIFS 3040	Animal Physiology	R 3
		LIFS 3060	Microbiology	R 3
		LANG 3014	Laboratory Report Writing for Life Science Students	4
		LIFS 3220 or LIFS 3260	Animal Physiology Laboratory OR Microbiology Laboratory	R 3
University Core		Common core courses	CC 3	
Elective course to be offered		3000-level :LIFS 3020/3070/3150/3220(Lab of 3040)/3260	E 3	
Term Load:			16	
Year 4 Fall 2019/20		LIFS 4960 OR LIFS 4970	BISC Capstone courses	R 3
		LANG 4014	English for Life Science Capstone and Final Year Projects	R [2]
		University Core	Common core courses	CC 3
	Elective course to be offered	4000 level:4150/4760/ENVS 4001	E 3	
	Term Load:			9
	Year 4 Spring 2019/20	LIFS 4960 OR LIFS 4980	BISC Capstone courses	R [0/3/4]
		LANG 4014	English for Life Science Capstone and Final Year Projects	R 2
		University Core	Common core courses	CC 3
		Elective course to be offered	4000 level: ENVS 4301/4905/ LIFS 4060/4140/4380/4550/4800/BIPH 4010	E 6
		Term Load:		

BCB Recommended pathway		Note	Cr.		
Year 1 Fall 2016/17	LIFS 1901	General Biology I ^{note1}	R+S ^{note2} 3		
	LIFS 1903	Laboratory for General Biology I ^{note1}	R+S ^{note2} 1		
	CHEM 1010 OR CHEM 1020	General Chemistry IA OR General Chemistry IB	R+S ^{note2} 3		
	CHEM 1050	Laboratory for General Chemistry I	R+S ^{note2} 1		
	PHYS 1001	Physics and The Modern society	S ^{note2} 3		
	HLTH 1010	Healthy Lifestyle	0		
	SCIE 1000	Science School Induction	S ^{note2} 0		
	University Core	Common core courses	CC 6		
	Elective course to be offered	1000 level: LIFS 1030	E 0		
	Term Load:			17	
Year 1 Spring 2016/17	LIFS 1902	General Biology II	R+S ^{note2} 3		
	LIFS 1904	Laboratory for General Biology II	R+S ^{note2} 1		
	CHEM 1030	General Chemistry II	R+S ^{note2} 3		
	CHEM 1055	Laboratory for General Chemistry II	R+S ^{note2} 1		
	MATH 1013	Calculus I	S ^{note2} 3		
	HLTH 1010	Healthy Lifestyle	0		
	SCIE 1000	Science School Induction	S ^{note2} 0		
	University Core	Common core courses	CC 6		
	Elective course to be offered	2000-Level: LIFS 2060/2070	E 0		
	Term Load:			17	
Year 2 Fall 2017/18	LIFS 2010	Modern Approaches to Biochemical and Cell Biological Research	R 3		
	LIFS 2210	Biochemistry I	R 3		
	LANG 3014	Laboratory Report Writing for Life Science Students	R 1		
	LIFS 2720	Biochemistry Laboratory	R 2		
	LIFS 2820	Biochemical Laboratory Techniques	R 1		
	CHEM 2110(Fall) OR CHEM 2311(Spring)	Note: CHEM 2110 OR CHEM 2311 Organic Chemistry I OR Analytical Chemistry	R 3		
	University Core	Common core courses	CC 3		
	Elective course to be offered	2000-level: LIFS 2060/2070	E 0		
	Term Load:			16	
	Year 2 Spring 2017/18	LIFS 2220	Biochemistry II	R 3	
LIFS 2040		Cell Biology	R 3		
LIFS 2240		Cell Biology Laboratory	R 3		
CHEM 2155 OR CHEM 2355		Fundamental Organic Chemistry Laboratory	R 1		
CHEM 2110(Fall) OR CHEM 2311(Spring)		Note: CHEM 2110 OR CHEM 2311 Organic Chemistry I OR Analytical Chemistry	R [3]		
University Core		Common core courses	CC 3		
Elective course to be offered		LIFS 2080/LIFS 3060/BIPH 2010	E 3		
Term Load:			16		
Year 3 Fall 2018/19		COMP 1001 OR 1021 OR 1022P or 1022Q or 2011	MultimediaInternet Comp/Intro to Computer Science/Intro to Comp with Java/Intro to Comp with Excel VBA/Intro to Object-oriented programming	S ^{note2} 3	
		LANG 2010	English for Science I	S ^{note2} 3	
	LIFS 3010	Molecular and Cellular Biology I	R 3		
	LIFS 3140	General Genetics	R 4		
	University Core	Common core courses	CC 3		
	Elective course to be offered	3000-level: LIFS 3002/LIFS 3110/BIPH3010/LIFS3210	E 0		
	Term Load:			16	
	Year 3 Spring 2018/19	LIFS 3020	Molecular and Cellular Biology II	R 3	
		University Core	Common core courses	CC 9	
		Elective course to be offered	3000-level :LIFS 3040/3060/LIFS 3070/3240/3510/3520	E 6	
Term Load:			18		
Year 4 Fall 2019/20		LIFS 4961 OR LIFS 4971	BCB Capstone courses	R [3]	
		LANG 4014	English for Life Science Capstone and Final Year Projects	R 2	
		University Core	Common core courses	CC 3	
		Elective course to be offered	4000-level:4090/4370/4760*/4950/BIPH 4010	E 9	
		Term Load:			14
		Year 4 Spring 2019/20	LIFS 4961 OR LIFS 4981 OR SCIE 4500	BCB Capstone courses	R 3
	LANG 4014		English for Life Science Capstone and Final Year Projects	R [2]	
	University Core		Common core courses	CC 3	
	Elective course to be offered		4000-level:LIFS 4060/4140/4190/4540/4580/4620/4800/BIPH 4010	E 6	
	Term Load:			12	

BIOT Recommended pathway		Note	Cr.	
Year 1 Fall 2016/17	LIFS 1901	General Biology I ^{note1}	R+S ^{note2} 3	
	LIFS 1903	Laboratory for General Biology I ^{note1}	R+S ^{note2} 1	
	CHEM 1010 OR CHEM 1020	General Chemistry IA OR General Chemistry IB	R+S ^{note2} 3	
	CHEM 1050	Laboratory for General Chemistry I	R+S ^{note2} 1	
	MATH 1013	Calculus I	S ^{note2} 3	
	HLTH 1010	Healthy Lifestyle	0	
	SCIE 1000	Science School Induction	S ^{note2} 0	
	University Core	Common core courses	CC 6	
	Elective course to be offered	1000 level: LIFS 1030	E 0	
	Term Load:			17
Year 1 Spring 2016/17	LIFS 1902	General Biology II	R+S ^{note2} 3	
	LIFS 1904	Laboratory for General Biology II	R+S ^{note2} 1	
	CHEM 1030	General Chemistry II	R+S ^{note2} 3	
	CHEM 1055	Laboratory for General Chemistry II	R+S ^{note2} 1	
	MATH 1013	Calculus I	S ^{note2} 3	
	HLTH 1010	Healthy Lifestyle	0	
	SCIE 1000	Science School Induction	S ^{note2} 0	
	University Core	Common core courses	CC 6	
	Elective course to be offered	2000-level: LIFS 2010/2060/LIFS 2720(Lab)/LIFS 2820	E 0	
	Term Load:			14
Year 2 Fall 2017/18	LIFS 2210	Biochemistry I	R 3	
	LIFS 2070	Introduction to Biotechnology	R 3	
	PHYS 1001	Physics and The Modern society	S ^{note2} 3	
	COMP 1001 OR 1021 OR 1022P or 1022Q or 2011	MultimediaInternet Comp/Intro to Computer Science/Intro to Comp with Java/Intro to Comp with Excel VBA/Intro to Object-oriented programming	S ^{note2} 3	
	University Core	Common core courses	CC 3	
	Elective course to be offered	2000-level: LIFS 2010/2060/LIFS 2720(Lab)/LIFS 2820	E 0	
	Term Load:			15
	Year 2 Spring 2017/18	LIFS 2040	Cell Biology	R 3
		LIFS 2080	Plant Biology	R 3
		LIFS 3060	Microbiology	R 3
University Core		Common core courses	CC 6	
Elective course to be offered		LIFS 2240(Lab with 2040)/ 2280(Lab of 2080)/LIFS 3260(Lab of LIFS 3060)/BIPH 2010	E 3	
Term Load:			18	
Year 3 Fall 2018/19		CHEM 2110(Fall) OR CHEM 2311(Spring)	Note: CHEM 2110 OR CHEM 2311 Organic Chemistry I OR Analytical Chemistry	R 3
		LANG 2010	English for Science I	S 3
		LIFS 3110	Biotechnological Application of Recombinant DNA Techniques	R 3
		LIFS 3140	General Genetics	R 4
	LANG 3014	Laboratory Report Writing for Life Science Students	R 1	
	University Core	Common core courses	CC 3	
	CENG 1600	Biotechnology and Its Business Opportunities	R 3	
	Elective course to be offered	LIFS 3010/4630/4760*/BIPH3010	E 0	
	Term Load:			20
	Year 3 Spring 2018/19	CHEM 2155 OR CHEM 2355	Note: CHEM 2155 OR CHEM 2355 Fundamental Organic Chemistry Laboratory	R 1
CHEM 2110(Fall) OR CHEM 2311(Spring)		Note: CHEM 2110 OR CHEM 2311 Organic Chemistry I OR Analytical Chemistry	R [3]	
University Core		Common core courses	CC 6	
Elective course to be offered		3000-level:LIFS 3002A/3020/3040/3150/3220	E 6	
Term Load:			13	
Year 4 Fall 2019/20		LIFS 4963 OR LIFS 4973	BIOT Capstone courses	R [3]
		LANG 4014	English for Life Science Capstone and Final Year Projects	R [2]
		LIFS 4150	Plant Biotechnology	R 3
		LIFS 4200	Concepts and Issues in Contemporary Biotechnology	R 3
		CENG 1600	Biotechnology and Its Business Opportunities	R [3]
	University Core	Common core courses	CC 3	
	Elective course to be offered	4000-level:4370/4630/4760*/4820(Only Year 4 students)	E 3	
	Term Load:			12
	Year 4 Spring 2019/20	LIFS 4963 OR LIFS 4983 OR SCIE 4500	BIOT Capstone courses	R 3
		LANG 4014	English for Life Science Capstone and Final Year Projects	R 2
University Core		Common core courses	CC 3	
Elective course to be offered		4000 level:LIFS 4140/4540/4360/4380/4550/4580/4800, CENG 4670, BIPH 4010	E 3	
Term Load:			11	

Note:
 *S"- SSCI school requirement
 "R"- major required course
 "E"- major elective course
 "CC"- Common core requirement (36 credits)
 Note: Please refer to the explanatory note (separate doc - attachment)
 Table was made according to the official pathway: http://publish.usf.edu/prog_cr/ugprog/pathways.html
 Recommended pathway are for reference only and it may subject to change from semester to semester. Students are strongly advised to refer to the Program Catalog for the School requirement or Course Catalog to understand the most updated and detailed requirements. For other cohorts, please refer to the UG Curriculum Handbook.