

Recommended Pattern of Study for Programs offered by Division of Life Science
For students admitted in 2018-19
 (Last updated: 12 July 2018)

| | BISC Recommended pathway | | | | BCB Recommended pathway | | | | BIOT Recommended pathway | | | |
|--|---|--|----------------------|-------------------------------|---|--|----------------------|-------------------------------|---|--|----------------------|-------------------|
| | Course | Description | Note | Cr. | Course | Description | Note | Cr. | Course | Description | Note | Cr. |
| Year 1 Fall 2018/19 | LIFS 1901 | General Biology I ^{note1} | R+S ^{note2} | 3 | LIFS 1901 | General Biology I ^{note1} | R+S ^{note2} | 3 | LIFS 1901 | General Biology I ^{note1} | R+S ^{note2} | 3 |
| | LIFS 1903 | Laboratory for General Biology I ^{note1} | R+S ^{note2} | 1 | LIFS 1903 | Laboratory for General Biology I ^{note1} | R+S ^{note2} | 1 | 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 1010 OR CHEM 1020 | General Chemistry IA OR General Chemistry IB | R+S ^{note2} | 3 | 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 | CHEM 1050 | Laboratory for General Chemistry I | R+S ^{note2} | 1 | CHEM 1050 | Laboratory for General Chemistry I | R+S ^{note2} | 1 |
| | MATH 1013 | Calculus I | S ^{note2} | 3 | PHYS 1001 | Physics and The Modern society | S ^{note2} | 3 | MATH 1013 | Calculus I | S ^{note2} | 3 |
| | HLTH 1010 | Healthy Lifestyle | | 0 | HLTH 1010 | Healthy Lifestyle | | 0 | HLTH 1010 | Healthy Lifestyle | | 0 |
| | SCIE 1000 | Science School Induction | S ^{note2} | 0 | SCIE 1000 | Science School Induction | S ^{note2} | 0 | SCIE 1000 | Science School Induction | S ^{note2} | 0 |
| | University Core | Common core courses | CC | 6 | University Core | Common core courses | CC | 6 | University Core | Common core courses | CC | 6 |
| Elective course to be offered | 1000 level: LIFS 1030/1930 | E | 0 | Elective course to be offered | 1000 level: LIFS 1030/1930 | E | 0 | Elective course to be offered | 1000 level: LIFS 1030/1930 | E | 0 | |
| | Term Load: | | | Term Load: | | | Term Load: | | Term Load: | | | Term Load: |
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| Year 1 Spring 2018/19 | LIFS 1902 | General Biology II | R+S ^{note2} | 3 | LIFS 1902 | General Biology II | R+S ^{note2} | 3 | LIFS 1902 | General Biology II | R+S ^{note2} | 3 |
| | LIFS 1904 | Laboratory for General Biology II | R+S ^{note2} | 1 | LIFS 1904 | Laboratory for General Biology II | R+S ^{note2} | 1 | LIFS 1904 | Laboratory for General Biology II | R+S ^{note2} | 1 |
| | CHEM 1030 | General Chemistry II | R+S ^{note2} | 3 | CHEM 1030 | General Chemistry II | R+S ^{note2} | 3 | CHEM 1030 | General Chemistry II | R+S ^{note2} | 3 |
| | CHEM 1055 | Laboratory for General Chemistry II | R+S ^{note2} | 1 | CHEM 1055 | Laboratory for General Chemistry II | R+S ^{note2} | 1 | CHEM 1055 | Laboratory for General Chemistry II | R+S ^{note2} | 1 |
| | MATH 1013 | Calculus I | S ^{note2} | 3 | MATH 1013 | Calculus I | S ^{note2} | 3 | MATH 1013 | Calculus I | S ^{note2} | 3 |
| | HLTH 1010 | Healthy Lifestyle | | 0 | HLTH 1010 | Healthy Lifestyle | | 0 | HLTH 1010 | Healthy Lifestyle | | 0 |
| SCIE 1000 | Science School Induction | S ^{note2} | 0 | SCIE 1000 | Science School Induction | S ^{note2} | 0 | SCIE 1000 | Science School Induction | S ^{note2} | 0 | |
| University Core | Common core courses | CC | 6 | University Core | Common core courses | CC | 6 | University Core | Common core courses | CC | 6 | |
| Elective course to be offered | | | | Elective course to be offered | | | | Elective course to be offered | | | | |
| | Term Load: | | | Term Load: | | | Term Load: | | Term Load: | | | Term Load: |
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| Year 2 Fall 2019/20 (undeclared) | LIFS 2210 | Biochemistry I | R+S | 3 | LIFS 2010 | Modern Approaches to Biochemical and Cell Biological Research | R | 3 | LIFS 2210 | Biochemistry I | R | 3 |
| | LIFS 2060 | Biodiversity | R | 3 | LIFS 2210 | Biochemistry I | R | 3 | LIFS 2070 | Introduction to Biotechnology | R | 3 |
| | PHYS 1001 | Physics and The Modern society | CC+S | 3 | LIFS 2720 | Biochemistry Laboratory | R | 2 | PHYS 1001 | Physics and The Modern society | S ^{note2} | 3 |
| | | | | | LIFS 2820 | Biochemical Laboratory Techniques | R | 1 | COMP 1001 OR 1021 OR 1022P or 1022Q or 2011 | Multimedia/Internet Comp/Intro to Computer Science/Intro to Comp with Java/Intro to Comp with Excel VBA/Intro to Object-oriented programming | S ^{note2} | 3 |
| | | | | | CHEM 2110(Fall) OR CHEM 2311(Spring) | Organic Chemistry I OR Analytical Chemistry | R | 3 | CENG 1600 | Biotechnology and Its Business Opportunities | R | 3 |
| | University Core | Common core courses | CC | 6 | University Core | Common core courses | CC | 3 | University Core | Common core courses | CC | 3 |
| | Elective course to be offered | 2000-level: LIFS 2010/2070/2720(Lab)/2820 | E | 0 | Elective course to be offered | 2000-level: LIFS 2060/2070 | E | 0 | Elective course to be offered | 2000-level: LIFS 2010/2060/LIFS 2720(Lab)/LIFS 2820 | E | 0 |
| | | Term Load: | | | Term Load: | | | Term Load: | Term Load: | | | Term Load: |
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| Year 2 Spring 2019/20 | LIFS 2040 | Cell Biology | R | 3 | LIFS 2220 | Biochemistry II | R | 3 | LIFS 2040 | Cell Biology | R | 3 |
| | LIFS 2220 | Biochemistry II | R | 3 | LIFS 2040 | Cell Biology | R | 3 | LIFS 2080 | Plant Biology | R | 3 |
| | LIFS 2240 | Cell Biology Laboratory | R | 3 | LIFS 2240 | Cell Biology Laboratory | R | 3 | LIFS 3060 | Microbiology | R | 3 |
| | LIFS 2080 | Plant Biology | R | 3 | CHEM 2155 OR CHEM 2355 | Fundamental Organic Chemistry Laboratory | R | 1 | University Core | Common core courses | CC | 6 |
| | | | | | CHEM 2110(Fall) OR CHEM 2311(Spring) | Organic Chemistry I OR Analytical Chemistry | R | [3] | Elective course to be offered | LIFS 2240(Lab with 2040)/ LIFS 2280(Lab of 2080)/BIPH 2010 | E | 3 |
| | University Core | Common core courses | CC | 3 | University Core | Common core courses | CC | 3 | | | | |
| Elective course to be offered | | | | Elective course to be offered | LIFS 2080/LIFS 3060/BIPH 2010 | E | 3 | | | | | |
| | Term Load: | | | Term Load: | | | Term Load: | Term Load: | | | Term Load: | |
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| Year 3 Fall 2020/21 | COMP 1001 OR 1021 OR 1022P or 1022Q or 2011 | Multimedia/Internet Comp/Intro to Computer Science/Intro to Comp with Java/Intro to Comp with Excel VBA/Intro to Object-oriented programming | S ^{note2} | 3 | COMP 1001 OR 1021 OR 1022P or 1022Q or 2011 | Multimedia/Internet Comp/Intro to Computer Science/Intro to Comp with Java/Intro to Comp with Excel VBA/Intro to Object-oriented programming | S ^{note2} | 3 | CHEM 2110(Fall) OR CHEM 2311(Spring) | Organic Chemistry I OR Analytical Chemistry | R | 3 |
| | LANG 2010 | Eng for Sci I | S ^{note2} | 3 | LANG 2010 | English for Science I | S ^{note2} | 3 | LANG 2010 | English for Science I | S | 3 |
| | LIFS 3160 | Ecology | R | 3 | LIFS 3010 | Molecular and Cellular Biology I | R | 3 | LIFS 3110 | Biotechnological Application of Recombinant DNA Techniques | R | 3 |
| | | | | | LIFS 3140 | General Genetics | R | 4 | LIFS 3140 | General Genetics | R | 4 |
| | University Core | Common core courses | CC | 6 | University Core | Common core courses | CC | 3 | University Core | Common core courses | CC | 3 |
| | Elective course to be offered | 3000-level: LIFS 3002/3010/3110(Lab)/3130/3140/3330(Lab of 3130)/ENV5 3001/BIPH3010 | E | 0 | Elective course to be offered | 3000-level: LIFS 3002/LIFS 3110/BIPH3010 | E | 0 | Elective course to be offered | LIFS 3010/4630/4760*/BIPH3010 | E | 0 |
| | Term Load: | | | Term Load: | | | Term Load: | Term Load: | | | Term Load: | |
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| Year 3 Spring 2020/21 | LIFS 3040 | Animal Physiology | R | 3 | LIFS 3020 | Molecular and Cellular Biology II | R | 3 | CHEM 2155 OR CHEM 2355 | Fundamental Organic Chemistry Laboratory | R | 1 |
| | LIFS 3060 | Microbiology | R | 3 | LANG 3024 | Science communication in english (Life Science) | R | 3 | CHEM 2110(Fall) OR CHEM 2311(Spring) | Organic Chemistry I OR Analytical Chemistry | R | [3] |
| | LANG 3024 | Science communication in english (Life Science) | R | 3 | | | | | LANG 3024 | Science communication in english (Life Science) | R | 3 |
| | LIFS 3220 or LIFS 3260 | Animal Physiology Laboratory OR Microbiology Laboratory | R | 3 | | | | | University Core | Common core courses | CC | 6 |
| | University Core | Common core courses | CC | 3 | University Core | Common core courses | CC | 6 | Elective course to be offered | 3000-level:LIFS 3002A/3020/3040/3150/3220 | E | 6 |
| | Elective course to be offered | 3000-level :LIFS 3020/3070/3150/3220(Lab of 3040)/3260 | E | 3 | Elective course to be offered | 3000-level :LIFS 3040/3060/LIFS 3070/3240/3510/3520 | E | 6 | | | | |
| | Term Load: | | | Term Load: | | | Term Load: | Term Load: | | | Term Load: | |
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| Year 4 Fall 2021/22 | LIFS 4960 OR LIFS 4970 | BISC Capstone courses | R | 3 | LIFS 4961 OR LIFS 4971 | BCB Capstone courses | R | [3] | LIFS 4963 OR LIFS 4973 | BIOT Capstone courses | R | [3] |
| | LANG 3024 | Science communication in english (Life Science) | R | [3] | LANG 3024 | Science communication in english (Life Science) | R | [3] | LIFS 4150 | Plant Biotechnology | R | 3 |
| | University Core | Common core courses | CC | 3 | University Core | Common core courses | CC | 3 | LIFS 4200 | Concepts and Issues in Contemporary Biotechnology | R | 3 |
| | Elective course to be offered | 4000 level:LIFS 4150/4760/ENV5 4001 | E | 3 | Elective course to be offered | 4000-level:LIFS 4090/4370/4760/4950/BIPH 4010 | E | 9 | LANG 3024 | Science communication in english (Life Science) | R | [3] |
| | Term Load: | | | Term Load: | | | Term Load: | Term Load: | | | Term Load: | |
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| Year 4 Spring 2021/22 | LIFS 4960 OR LIFS 4980 | BISC Capstone courses | R | [0/3/4] | LIFS 4961 OR LIFS 4981 OR SCIE 4500 | BCB Capstone courses | R | 3 | LIFS 4963 OR LIFS 4983 OR SCIE 4500 | BIOT Capstone courses | R | 3 |
| | University Core | Common core courses | CC | 3 | University Core | Common core courses | CC | 6 | University Core | Common core courses | CC | 3 |
| | Elective course to be offered | 4000 level: ENV5 4301/4905/ LIFS 4060/4140/4380/4550/4800/BIPH 4010 | E | 6 | Elective course to be offered | 4000-level:LIFS 4060/4140/4190/4540/4580/4620/4800/BIPH 4010 | E | 6 | Elective course to be offered | 4000 level:LIFS 4140/4540/4360/4380/4550/4580/4800, CENG 4670, BIPH 4010 | E | 3 |
| | Term Load: | | | Term Load: | | | Term Load: | Term Load: | | | Term Load: | |
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Note: "S"- SSCI school requirement "R"- major required course [] denotes the course is also offered in other terms as indicated and student may take the course in one of these terms
 "E"- major elective course "CC "- Common core requirement (36 credits) **Highlights in GREEN- elective courses**
 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.