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| **Southern University and A&M College** **College of Sciences and Engineering****Department of Biological Sciences and Chemistry** **Degree: Bachelor of Science in Biology** **Degree Requirements: 120 Credit Hours** **Catalog Year: 2017 – 2020**  |  |  | **Student’s Name:** **Student’s U#:** **Semester Entered SU:** **Date:**  |  |
| **First Year** |
| **1st Semester** | **Old Course ID** | **New Course ID** | **Course Title** | **Credits** | **Semester Taken**  | **Grade Earned**  | **Transfer Institution**  | **Course Notes**  |
| BIOL 108  | SBIO 103B | General Biology I (Lecture and Lab)  | 4 |  |  |  |   |
| CHEM 132  | SCHE 132B | General Chemistry Lecture I | 3 |  |  |  | Pre-requisites: SMAT 121B or above  |
| CHEM 112  | SCHE 132LB | General Chemistry Lab I | 1 |  |  |  | Co-requisite: SCHE 132B  |
| MATH 140  | SMAT 122B | Pre-Calculus II  | 3 |  |  |  | Pre-requisite: SMAT 121B or Placement Score; must pass with C or better  |
| ENGL 110  | SENL 101B | Freshman Composition I  | 3 |  |  |  | Pre-requisite: Placement Score  |
| FRMN 110  | FRMN 110B | Freshman Seminar I  | 1 |  |  |  |   |
| **TOTAL SEMESTER HOURS**  | **15** |  |  |  |   |
|   |
|  **2nd Semester** | **Old Course ID** | **New Course ID** | **Course Title**  | **Credits** | **Semester Taken** | **Grade Earned** | **Transfer Institution**  | **Course Notes**  |
| BIOL 109 | BIOL 109B | General Biology II (Lecture and Lab)  | 4 |  |  |  | Pre-requisite: SBIO 103B  |
| CHEM 133 | SCHE 133B | General Chemistry Lecture II | 3 |  |  |  | Pre-requisite: SCHE 132B  |
| CHEM 113 | SCHE 133LB | General Chemistry Lab II | 1 |  |  |  |   |
| MATH 264 | SMAT 211B | Calculus I  | 4 |  |  |  | Pre-requisites: SMAT 121B and 122B with a C or better  |
| ENGL 111 | SENL 102B | Freshman Composition II  | 3 |  |  |  | Pre-requisite: SENL 101B |
| FRMN 111 | FRMN 111B | Freshman Seminar II | 1 |  |  |  | Pre-requisite: FRMN 110B  |
| **TOTAL SEMESTER HOURS** | **16** |  |  |  |   |
| **Second Year** |
| **1st Semester** | **Old Course ID** | **New Course ID** | **Course Title**  | **Credits** | **Semester Taken** | **Grade Earned** | **Transfer Institution**  | **Course Notes**  |
| CHEM 230 | SCHE 230B | Organic Chemistry Lecture I  | 3 |  |  |  | Pre-requisites: SCHE 133B/133LB  |
| CHEM 220 | SCHE 220B | Organic Chemistry Lab I  | 1 |  |  |  | Pre-requisites: SCHE 133B/133LB |
| PHYS 141 | SPHY 211B | Elements of Physics I | 4 |  |  |  | Pre-requisite: MATH 130 or higher  |
| \*PHYS 221 & PHYS 223 | SPHY 213B & SPHY 213LB | General Physics I Lecture & Lab  | 3 & 1 |  |  |  | \*Recommended for students pursing health careers, instead of Elements of Physics I |
| BIOL 232 | BIOL 232 | General Microbiology  | 4 |  |  |  | Pre-requisites: SCHE 132B/132LB, 133B/133LB; SBIO 103B and BIOL 109B  |
| CMPS 290 | CMPS 290B | Microcomputer Applications in Business  | 3 |  |  |  |   |
| **TOTAL SEMESTER HOURS**  | **15** |  |  |  |   |

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| **2nd Semester** | **Old Course ID** | **New Course ID** | **Course Title**  | **Credits**  | **Semester Taken**  | **Grade Earned**  | **Transfer Institution**  | **Course Notes**  |
| CHEM 231  | SCHE 231B | Organic Chemistry Lecture II  | 3  |  |  |  | Pre-requisites: SCHE 230B/220B  |
| CHEM 221  | SCHE 221B | Organic Chemistry Lab II  | 2  |  |  |  | Pre-requisites: SCHE 230B/220B |
| PHYS 142  | SPHY 212B | Elements of Physics II | 4  |  |  |  | Pre-requisites: SPHY 211B and MATH 130 or higher  |
| \*PHYS 222& PHYS 224 | SPHY 215B & SPHY 214LB | General Physics II Lecture & Lab  | 3 & 1 |  |  |  | \*Recommended for students pursing health careers, instead of Elements of Physics II |
| PSYC 210  | SPSY 201B | Introduction to Psychology  | 3  |  |  |  |   |
| ENGL 203  | SENL 240B | Literature Elective  | 3  |  |  |  | Pre-requisites: SENL 101B, 102B |
| **TOTAL SEMESTER HOURS**  | **15**  |   |   |   |   |
| **Third Year** |
| **1st Semester** | **Old Course ID** | **New Course ID** | **Course Title**  | **Credits**  | **Semester Taken**  | **Grade Earned**  | **Transfer Institution**  | **Course Notes**  |
| CHEM 340  | CHEM 340B  | General Biochemistry Lecture  | 3  |  |  |  | Pre-requisites: CHEM 231  |
| CHEM 342  | CHEM 342B  | General Biochemistry Lab  | 1  |  |  |  | Pre-requisites: CHEM 231  |
| BIOL 350  | SBIO 352B | Genetics  | 4  |  |  |  | Pre-requisites: SCHE 132B/132LB, 133/113; SBIO 103B, BIOL 109B  |
| BIOL XXX  |  | Biology Elective\*  | 4  |  |  |  |   |
|   |  | Foreign Languages Sequence I  | 3  |  |  |  |   |
|  | **TOTAL SEMESTER HOURS**  | **15**  |   |   |   |   |
|   |
| **2nd Semester** | **Old Course ID** | **New Course ID** | **Course Title**  | **Credits** | **Semester Taken** | **Grade Earned** | **Transfer Institution**  | **Course Notes**  |
| BIOL XXX |  | Biology Elective\*  | 4 |  |  |  |   |
| BIOL XXX |  | Biology Elective\*  | 4 |  |  |  |   |
| HIST XXX |  | History Elective  | 3 |  |  |  |   |
| HLTH/PHED |  | Health/Physical Ed Elective  | 2 |  |  |  | HLTH 110B (2 cr. hrs.) or 2 PHED activity courses @ 1 cr. hr. each  |
|  |  | Foreign Language Sequence II  | 3 |  |  |  |   |
| BIOL 300 | BIOL 300B | Principles of Research  | 1 |  |  |  | Pre-requisite: SBIO 103B, BIOL 109B  |
|  | **TOTAL SEMESTER HOURS**  | **17** |  |  |   |   |
| **Fourth Year** |
| **1st Semester** | **Old Course ID** | **New Course ID** | **Course Title**  | **Credits** | **Semester Taken** | **Grade Earned** | **Transfer Institution**  | **Course Notes**  |
| BIOL 402 | BIOL 402B | Cell and Molecular Biology (Lecture and Lab)  | 4 |  |  |  | Pre-requisites: SBIO 212B, SCHE 230B, 231B  |
| BIOL 403 | SBIO 456B | Seminar  | 1 |  |  |  | Junior Standing  |
| HIST XXX |  | History Elective  | 3 |  |  |  |   |
|  |  | Humanities Elective  | 3 |  |  |  | Select from: PHIL 200B, 210B or HUMN 241B, 242B, 244B, or 366B  |
| SVLR 400 | SVLR 400B | Service Learning  | 3 |  |  |  |   |
|  | **TOTAL SEMESTER HOURS**  | **14** |  |  |  |  |
|  | **Old Course ID** | **New Course ID** | **Course Title** | **Credits** | **Semester Taken** | **Grade Earned** | **Transfer Institution** | **Course Notes** |
| **2nd Semester** | BIOL XXX |  | Physiology Electives  | 4 |  |  |  | Select from: BIOL 305B, 412B, 433B,442B  |
| BIOL 409 | BIOL 409B | Introduction to Biostatistics  | 3 |  |  |  | Pre-requisite: SMAT 122B or equivalent  |
|  |  | Social Science Elective  | 3 |  |  |  |   |
|  |  | Art Elective  | 3 |  |  |  | SFIA 101B or MUSC 200B  |
|  | **TOTAL SEMESTER HOURS**  | **13** |  |  |  |   |

\* Biology Elective: Two of the three biology electives must be at the 300 level or above. Biology majors CANNOT use SBIOL 101B, 101LB, 102B, 102LB, 223, 211B, 213LB, 221B, or 222B for degree credit.

**Other Graduation Requirements:**

Writing Proficiency taken in SENL 102B unless transferred SENL 102B, then Writing Proficiency must be scheduled;

Students must pass Departmental Comprehensive; 3 Credit Hours of African American Experience (SENL 240B); See Advisor about Service Learning Requirement. **Students are required to earn a grade “C” or better in all biology, chemistry, mathematics, physics and English courses.**

**Student cumulative GPA must be a 2.0 or higher.**

**STUDENTS ARE REQUIRED TO MEET WITH THEIR ADVISOR PRIOR TO REGISTRATION. SHOULD A STUDENT FAIL TO SECURE PROPER ADVISEMENT, THE**

**UNIVERSITY WILL NOT BE HELD RESPONSIBLE. CSE, 08/2020**