

NAME: \_\_\_\_\_

ID#: \_\_\_\_\_

**IN EFFECT FALL 2021****LABORATORY SCIENCE CURRICULUM (LBSC)****FRESHMAN YEAR**

ENGL 1100 English Composition I.....	3	ENGL 1120 English Composition II.....	3
MATH 1610 Calculus I.....	4	BIOL 1020 Principles of Biology.....	3
<b>CHEM 1110 General Chemistry I<sup>1</sup>.....</b>	<b>3</b>	BIOL 1021 Principles of Biology Lab.....	1
<b>CHEM 1111 General Chemistry Lab.....</b>	<b>1</b>	<b>CHEM 1120 General Chemistry II<sup>1</sup>.....</b>	<b>3</b>
CORE HISTORY.....	3	<b>CHEM 1121 General Chemistry Lab.....</b>	<b>1</b>
PHIL 1030 Ethics and Health Sciences.....	3	CORE SOCIAL SCI or HUM <sup>2</sup> .....	3
	17		14

**SOPHOMORE YEAR**

<b>CHEM 2070 Organic Chemistry I.....</b>	<b>3</b>	<b>CHEM 2080 Organic Chem II.....</b>	<b>3</b>
<b>CHEM 2071 Organic Chemistry I Lab.....</b>	<b>1</b>	<b>CHEM 2081 Organic Chemistry II Lab.....</b>	<b>1</b>
BIOL 2500 + 2501 Anat & Phys I + Lab.....	4	BIOL 2510 + 2511 Anat & Phys II + Lab.....	4
STAT 2510 Statistics for Biology/Health.....	3	<b>BIOL 3200 + 3201 Microbiology + Lab.....</b>	<b>4</b>
CORE LITERATURE.....	3	CORE HISTORY or LITERATURE <sup>2</sup> .....	3
<b>LBSC 2010 Basics in Lab Science.....</b>	<b>2</b>		
	16		15

**JUNIOR YEAR**

BIOL 5200 Clinical Microbiology.....	5	<b>CHEM 3050 Analytical Chemistry.....</b>	<b>3</b>
BIOL 3000 + 3001 Genetics + Lab.....	4	<b>CHEM 3051 Analytical Chemistry Lab.....</b>	<b>1</b>
<b>LBSC 4010 Hematology.....</b>	<b>3</b>	<b>BIOL 5500 Immunology.....</b>	<b>3</b>
<b>LBSC 4011 Hematology Lab.....</b>	<b>2</b>	CORE FINE ARTS.....	3
	14	CORE SOCIAL SCIENCE.....	3
			13

**SENIOR YEAR**

<b>BCHE 5180 Biochemistry I.....</b>	<b>3</b>	<b>LBSC 4250 Clinical Biochem Instr.....</b>	<b>4</b>
<b>BCHE 5181 Biochemistry Lab.....</b>	<b>1</b>	<b>LBSC 4050 Clinical Immuno/Parasitology.....</b>	<b>5</b>
Tech Elective <sup>3</sup> .....	6	Tech Elective <sup>3</sup> .....	3
CORE SOCIAL SCIENCE.....	3	Elective.....	3
Elective.....	3	UNIV 4AA0 SM1 University Graduation.....	0
	16		15

**TOTAL HOURS 120**

Long range schedules for COSAM courses are online at <http://aub.ie/cosamlrs>

Courses in **BOLD** will be used to calculate GPA in major.

Options for courses labeled CORE are in the Auburn University Bulletin ([www.auburn.edu/bulletin](http://www.auburn.edu/bulletin)) under Core Curriculum.

<sup>1</sup> CHEM 1030/1031 and 1040/1041 sequence can substitute for CHEM 1110/1111 and 1120/1121. See advisor for details.

<sup>2</sup> If a second LITERATURE sequence is chosen, this course must be a CORE SOCIAL SCIENCE. If a second HISTORY sequence is chosen, this course must be a CORE HUMANITIES.

<sup>3</sup> Approved Tech Electives are on the back of this sheet.

## APPROVED TECHNICAL ELECTIVES

**HADM 3000** Healthcare Administration (3)

**KINE 3050/3053** Care and Prevention of Injuries (3)

**KINE 3003** Medical Terminology (3) *OR* **HADM 2103** Medical Terminology (3)

*Cannot count both towards technical electives.*

**CHEM 3000** Chemical Literature (1)

*(Prerequisite: CHEM 2080)*

**BIOL 4150** Human Genetics (3)

*(Prerequisite: BIOL 3000, BIOL 4100, and CHEM 2080)*

**BIOL 4100/4103** Cell Biology (3)

*(Prerequisite: CHEM 2030 or 2070, and BIOL 3000)*

**BIOL 4101** Cell Biology Lab (1)

*(Pre/Corequisite: BIOL 4100/4103)*

**BIOL 4003** Histology (3)

*(Prerequisite: BIOL 1030)*

**BIOL 4033** Histology Lab (1)

*(Prerequisite: BIOL 1030; Pre/Corequisite: BIOL 4001/4003)*

**BIOL 3030/3033** Evolution and Systematics (3)

*(Prerequisite: BIOL 1030)*

**BIOL 3020** Genomic Biology (4)

*(Prerequisite: BIOL 1020)*

**BIOL 3010/3013 + BIOL 3011** Comparative Anatomy lecture & lab (3+1; 4 total hours)

*(Prerequisite: BIOL 1030; Corequisite: BIOL 3011—lab MUST be taken with lecture)*

**BCHE 5190** Biochemistry II (3)

*(Prerequisite: BCHE 5180)*

**BCHE 5191** Biochemistry II Lab (1)

*(Prerequisite: BCHE 5190 and BCHE 5181)*

**BCHE 3200** Principles of Biochemistry (3)

*(Prerequisites: BIOL 1020 and CHEM 2070 or CHEM 2080)*

**MATH 1620** Calculus II (4)

*(Prerequisite: MATH 1610)*

**MATH 2630** Calculus III (4)

*(Prerequisite: MATH 1620)*

**PHYS 1500** General Physics I (4)

*(Prerequisite: MATH 1130 or higher)*

**PHYS 1510** General Physics II (4)

*(Prerequisite: PHYS 1500)*

**VBMS 2100** Introduction to Public Health (3)

**VBMS 3010** Introduction to Epidemiology (3)

**VBMS 4910** Observing Needs in Public Health (3)

**VBMS 4830** Global and Comparative Health Systems (3)

**UTA experience** or **Undergraduate Research** can count up to a maximum of 4 hours each towards technical electives.