



BACHELOR OF SCIENCE IN MEDICAL LABORATORY SCIENCE PRE-MEDICINE OPTION (145 credits)

| FRESHMAN YEAR | | |
|---------------|---|-----------|
| Fall Semester | | Hrs. |
| BIOL 1240 | PRINCIPLES OF BIOLOGY I | 3 |
| BIOL 1245 | PRINCIPLES OF BIOLOGY I LAB | 1 |
| BLS 1100 | FOUNDATIONS OF MEDICAL LABORATORY SCIENCE | 2 |
| BLS 1150 | FOUNDATIONS OF MEDICAL LABORATORY SCIENCE LAB | 1 |
| CHEM 1110 | GENERAL CHEMISTRY I | 3 |
| CHEM 1115 | GENERAL CHEMISTRY I LAB | 1 |
| ENGL 1900 | ADVANCED STRATEGIES OF RHETORIC AND RESEARCH | 3 |
| MATH 1400 | PRE-CALCULUS | 3 |
| TOTAL | | 17 |

| Spring Semester | | Hrs. |
|-----------------|------------------------------|-----------|
| BIOL 1260 | PRINCIPLES OF BIOLOGY II | 3 |
| BIOL 1265 | PRINCIPLES OF BIOLOGY II LAB | 1 |
| CHEM 1120 | GENERAL CHEMISTRY II | 3 |
| CHEM 1125 | GENERAL CHEMISTRY II LAB | 1 |
| HCE 2010 | HEALTH CARE ETHICS | 3 |
| MATH 1510 | CALCULUS I | 4 |
| TOTAL | | 15 |

| SOPHOMORE YEAR | | |
|-------------------------------|---------------------------|----------|
| Summer Semester | | Hrs. |
| ENGL 2XXX/3XXX ⁽¹⁾ | LITERATURE ELECTIVE | 3 |
| SOC 1100 | INTRODUCTION TO SOCIOLOGY | 3 |
| XXXX ⁽²⁾ | FINE ARTS ELECTIVE | 3 |
| TOTAL | | 9 |

| Fall Semester | | Hrs. |
|-------------------------|---|-----------|
| BIOL 3020 | CELL BIOCHEMISTRY AND MOLECULAR BIOLOGY | 3 |
| CHEM 2410 | PRINCIPLES OF ORGANIC CHEMISTRY I | 3 |
| CHEM 2415 | PRINCIPLES OF ORGANIC CHEMISTRY I LAB | 1 |
| PHIL 1050 | INTRODUCTION TO PHILOSOPHY | 3 |
| PPY 2540 | HUMAN PHYSIOLOGY | 4 |
| PSY 1010 ⁽³⁾ | GENERAL PSYCHOLOGY | 3 |
| TOTAL | | 17 |



| SOPHOMORE YEAR | | |
|-----------------|--|-----------|
| Spring Semester | | Hrs. |
| BIOL 3040 | CELL STRUCTURE & FUNCTION | 3 |
| BLS 3110 | URINALYSIS AND BODY FLUIDS | 2 |
| MLS 3150 | URINALYSIS AND IMMUNOLOGY LAB | 1 |
| BLS 4130 | PRINCIPLES AND TECHNIQUES IN MOLECULAR BIOLOGY | 1 |
| CHEM 2420 | PRINCIPLES OF ORGANIC CHEMISTRY II | 3 |
| CHEM 2425 | PRINCIPLES OF ORGANIC CHEMISTRY II LAB | 1 |
| MATH 1300 | ELEMENTARY STATISTICS W/COMPUTERS | 3 |
| THEO 1000 | THEOLOGICAL FOUNDATIONS | 3 |
| TOTAL | | 17 |

| JUNIOR YEAR | | |
|-----------------|----------------|----------|
| Summer Semester | | Hrs. |
| PHYS 1310 | PHYSICS I | 3 |
| PHYS 1320 | PHYSICS I LAB | 1 |
| PHYS 1330 | PHYSICS II | 3 |
| PHYS 1340 | PHYSICS II LAB | 1 |
| TOTAL | | 8 |

| Fall Semester | | Hrs. |
|---------------|----------------------------|-----------|
| BLS 4110 | MEDICAL BIOCHEMISTRY I | 3 |
| MLS 4150 | ANALYTICAL CHEMISTRY | 2 |
| BLS 4210 | HEMATOLOGY | 4 |
| MLS 4250 | HEMATOLOGY LAB | 1 |
| BLS 4411 | FUNDAMENTALS OF IMMUNOLOGY | 2 |
| BLS 4510 | MEDICAL MICROBIOLOGY | 4 |
| TOTAL | | 16 |

| Spring Semester | | Hrs. |
|-----------------|---|-----------|
| BLS 4120 | MEDICAL BIOCHEMISTRY II | 2 |
| MLS 3400 | LABORATORY OPERATIONS | 1 |
| BLS 4220 | HEMOSTASIS AND THROMBOSIS | 2 |
| BLS 4310 | IMMUNOHEMATOLOGY | 3 |
| MLS 4350 | IMMUNOHEMATOLOGY LAB | 1 |
| BLS 4610 | RESEARCH, DESIGN, CRITIQUE & PRESENTATION | 3 |
| MLS 4520 | MEDICAL BACTERIOLOGY | 2 |
| MLS 4550 | MEDICAL BACTERIOLOGY LAB | 2 |
| TOTAL | | 16 |



| SENIOR YEAR | | |
|--|-----------------------|----------|
| Summer Semester | | Hrs. |
| 4 CREDITS OF CLINICAL PRACTICA FROM FALL COURSE LIST BELOW | | 4 |
| MLS 4161 | MOLECULAR BIOLOGY LAB | 1 |
| TOTAL | | 5 |

| Fall Semester | | Hrs. |
|--------------------------------------|--|-----------|
| REGISTER FOR 12 OF 16 CREDITS | | |
| MLS 4701 | CLINICAL CHEMISTRY PRACTICUM | 3 |
| MLS 4710 | CLINICAL CHEMISTRY | 1 |
| MLS 4740 | CLINICAL HEMATOLOGY PRACTICUM | 2 |
| MLS 4750 | CLINICAL HEMATOLOGY | 1 |
| MLS 4760 | CLINICAL HEMOSTASIS PRACTICUM | 1 |
| MLS 4780 | CLINICAL IMMUNOHEMATOLOGY PRACTICUM | 2 |
| MLS 4790 | CLINICAL IMMUNOHEMATOLOGY | 1 |
| MLS 4800 | CLINICAL MICROBIOLOGY PRACTICUM | 3 |
| MLS 4811 | CLINICAL MICROBIOLOGY | 1 |
| MLS 4821 | CLINICAL URINALYSIS & PHLEBOTOMY PRACTICUM | 1 |
| TOTAL | | 12 |

| Spring Semester | | Hrs. |
|--------------------------|---------------------------------------|-----------|
| BLS 4420 | MEDICAL IMMUNOLOGY | 2 |
| MLS 3210 | CLINICAL EDUCATION AND LAB MANAGEMENT | 2 |
| MLS 4541 | MEDICAL MYCOLOGY & PARASITOLOGY | 2 |
| MLS 4571 | MEDICAL MYCOLOGY & PARASITOLOGY LAB | 1 |
| MLS 4611 | ADVANCED TOPICS & CASE CORRELATIONS | 3 |
| 2XXX/3XXX ⁽⁴⁾ | PHILOSOPHY or THEOLOGY ELECTIVE | 3 |
| TOTAL | | 13 |



SUGGESTED COURSE OPTIONS

(1) Literature (3 Credits)

Any 2XXX OR 3XXX course which is designated to “literature” requirement for English - refer to the course description in the Course Catalog. If you are electing to complete a Health Care Ethics minor, select an English course from their list under the category “Outside the Center”.**

(2) Fine Arts (3 credits)

ART XXXX - Any Course
ARTH XXXX - Any Course
DANC XXXX - Any Course
FPA XXXX - Any Course
MUS XXXX - Any Course
THR XXXX - Any Course

(3) Social Science (3 credits)

PSY 1010 General Psychology (recommended for all majors; required for students taking the MCAT)
SOC 1100 Introduction to Sociology (required for students taking the MCAT)
ANTH XXXX - Any Course
PSYCH XXXX - Any Course
SOC XXXX - Any Course

(4) Philosophy/Theology (3 credits)

Any 2XXX level or above Philosophy (PHIL) or Theology (THEO) course. If you are electing to complete a Health Care Ethics minor, select a Philosophy or Theology course from their list under the category “Outside the Center”.**

** For a Health Care Ethics minor, only one course marked with a double asterisk (**) will be counted - the Philosophy/Theology or the English course.