

**TEXAS SOUTHERN UNIVERSITY**  
**COLLEGE OF PHARMACY AND HEALTH SCIENCES**  
**DEPARTMENT OF HEALTH SCIENCES**  
**Bachelor of Science in Clinical Laboratory Science/ Medical Technology**  
**Degree plan- Total Credit 136**  
**Four Year Plan**

| <i>First Year</i> | <i>First Semester</i>              | <i>CH</i> | <i>Grade</i> | <i>Second Semester</i>             | <i>CH</i> | <i>Grade</i> |
|-------------------|------------------------------------|-----------|--------------|------------------------------------|-----------|--------------|
|                   | CHEM 111 General Chemistry I Lab   | 1         |              | BIOL 132 Biological Science II Lec | 3         |              |
|                   | CHEM 131 General Chemistry I Lec   | 3         |              | CHEM 112 General Chemistry II Lab  | 1         |              |
|                   | MATH 133 College Algebra           | 3         |              | CHEM 132 General Chemistry II Lec  | 3         |              |
|                   | ENG 131 Freshman English I         | 3         |              | CS 116 Computer Science            | 3         |              |
|                   | BIOL 131 Biological Science I Lec  | 3         |              | ENG 132 Freshman English II        | 3         |              |
|                   | HSCR 150 Concepts of Health        | 3         |              | PSY 131 Psychology **              | 3         |              |
|                   | SC 135 or 136 Speech Communication | 3         |              |                                    |           |              |
|                   | 19 hrs                             |           |              | 16 hrs                             |           |              |

| <i>Second Year</i> | <i>Third Semester</i>   | <i>CH</i> | <i>Grade</i> | <i>Fourth Semester</i>   | <i>CH</i> | <i>Grade</i> |
|--------------------|---|-----------|--------------|--|-----------|--------------|
|                    | CHEM 211 Organic Chemistry I Lab                                    | 1         |              | POLS 232 American Political Systems II                                 | 3         |              |
|                    | CHEM 231 Organic Chemistry I Lec                                    | 3         |              | BIOL 347 Microbiology Lec/ Lab   | 4         |              |
|                    | BIOL 245 Human Anatomy & Physiology                                 | 4         |              | ENG 200 Level English Literature                                       | 3         |              |
|                    | POLS 231 American Political Systems I                               | 3         |              | CHEM 232/212 Organic Chemistry II or<br>CHEM 445/445L Biochemistry     | 4         |              |
|                    | HIST 231 Social & Political History of the<br>United States to 1877 | 3         |              | HIST 232 Social & Political History of the<br>United States since 1877 | 3         |              |
|                    | Visual & Performing Arts *  | 3         |              |  |           |              |
|                    | 17 hrs  |           |              | 17 hrs   |           |              |

| <i>Summer</i> | <i>Summer</i>                  | <i>CH</i> | <i>Grade</i> | <i>Summer</i> | <i>CH</i> | <i>Grade</i> |
|---------------|--------------------------------|-----------|--------------|---------------|-----------|--------------|
|               | HSCR 360 Principles of Disease | 3         |              |               |           |              |
|               | HSCR 260 Biomedical Ethics     | 3         |              |               |           |              |
|               | 6hrs                           |           |              |               |           |              |

| <i>Third Year</i> | <i>Fifth Semester</i>                                     | <i>CH</i> | <i>Grade</i> | <i>Sixth Semester</i>                               | <i>CH</i> | <i>Grade</i> |
|-------------------|---|-----------|--------------|---|-----------|--------------|
|                   | HSMT 353 Clinical Microscopy & Quality<br>Control Lec/Lab | 4         |              | HSMT 252 Serology Practices &<br>Procedures Lec/Lab | 3         |              |
|                   | HSMT 304 Medical Tech Applications I                      | 1         |              | HSMT 305 Medical Tech Applications II               | 1         |              |
|                   | HSMT 352 Hematology I Lec/Lab                             | 4         |              | HSMT 362 Hematology II Lec/Lab                      | 3         |              |
|                   | HSMT 354 Immunohematology I Lec/Lab                       | 3         |              | HSMT 364 Immunohematology II Lec/Lab                | 3         |              |
|                   | HSMT 355 Medical Chemistry I Lec/Lab                      | 3         |              | HSMT 365 Medical Chemistry II Lec/Lab               | 3         |              |
|                   | HSMT 359 Microbial Human Disorders I<br>Lec/Lab           | 3         |              | HSMT 369 Microbial Human Disorders II<br>Lec/Lab    | 2         |              |
|                   | 18 hrs  |           |              | 15 hrs  |           |              |

| <i>Summer</i> | <i>Summer</i>             | <i>CH</i> | <i>Grade</i> | <i>Summer</i> | <i>CH</i> | <i>Grade</i> |
|---------------|---------------------------|-----------|--------------|---------------|-----------|--------------|
|               | HSMT Hemostatic Processes | 4         |              |               |           |              |
|               | 4 hrs                     |           |              |               |           |              |

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**Degree plan- Total Credits 136**  
**Four Year Plan**

| <i>Fourth Year</i> | <i>Seventh Semester</i>                 | <i>CH</i> | <i>Grade</i> | <i>Eighth Semester</i>                                | <i>CH</i> | <i>Grade</i> |
|--------------------|---|-----------|--------------|---|-----------|--------------|
|                    | HSMT 306-(MGMT) Health Sciences Seminar | 1         |              | HSMT 306- (Research) Comprehensive Medical technology | 1         |              |
|                    | HSMT 357 Clinical Practicum I           | 3         |              | HSMT 358 Clinical Immunology                          | 2         |              |
|                    | HSMT 467 Clinical Blood Bank            | 4         |              | HSMT 466 Clinical Hematology                          | 4         |              |
|                    | HSMT 469 Clinical Biochemistry          | 4         |              | HSMT 468 Clinical Microbiology                        | 4         |              |
|                    |   |           |              | HSCR 300 Health Science Seminar                       | 1         |              |
|                    |   | 12 hrs    |              |   | 12 hrs    |              |

\* Either one of the following: THC 130, 231, MUSI 131, 239, ART 131, 132

\*\* Social and behavioral Sciences requirements maybe fulfilled by either of the following: Soc 157, Soc 158, Soc 231, ECON 231, ECON 232

Internship (last Year) is restricted to students who have satisfied **ALL** program requirements and who have been approved for assignment

**LISTED COURSES**

CHEM 231/232 L  
 BIOL 245

**SUBSTITUTED COURSE**

CHEM 445  
 BIOL 135 & 136 or BIOL 344

Name: \_\_\_\_\_ T#: \_\_\_\_\_ Phone: \_\_\_\_\_

Address: \_\_\_\_\_

Advisor: \_\_\_\_\_ Date: \_\_\_\_\_

**Approved:**

Chair, Department of Health Sciences: \_\_\_\_\_ Date: \_\_\_\_\_

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**Five Year Plan**

| <i>First Year</i> | <i>First Semester</i>             | <i>CH</i> | <i>Grade</i> | <i>Second Semester</i>             | <i>CH</i> | <i>Grade</i> |
|-------------------|-----------------------------------|-----------|--------------|------------------------------------|-----------|--------------|
|                   | CHEM 111 General Chemistry I Lab  | 1         |              | CHEM 112 General Chemistry II Lab  | 1         |              |
|                   | CHEM 131 General Chemistry I Lec  | 3         |              | CHEM 132 General Chemistry II Lec  | 3         |              |
|                   | HSCR 150 Concepts of Health       | 3         |              | MATH 131 College Algebra           | 3         |              |
|                   | BIOL 131 Biological Science I Lec | 3         |              | BIOL 132 Biological Science II Lec | 3         |              |
|                   | ENG 131 Freshman English          | 3         |              | SC 135 or 136 Speech Communication | 3         |              |
|                   | 13 hrs                            |           |              | 13 hrs                             |           |              |

| <i>Second Year</i> | <i>Third Semester</i>                 | <i>CH</i> | <i>Grade</i> | <i>Fourth Semester</i>   | <i>CH</i> | <i>Grade</i> |
|--------------------|---------------------------------------|-----------|--------------|--|-----------|--------------|
|                    | CHEM 211 Organic Chemistry I Lab      | 1         |              | CHEM 212 Organic Chemistry II lab                                | 1         |              |
|                    | CHEM 231 Organic Chemistry I Lec      | 3         |              | CHEM 232 Organic Chemistry II Lec                                | 3         |              |
|                    | POLS 231 American Political Systems I | 3         |              | POLS 232 American Political Systems II                           | 3         |              |
|                    | ENG 132 Freshman English II           | 3         |              | HIST 231 Social & Political History of the United States to 1877 | 3         |              |
|                    | CS 116 Computer Science I Lec         | 3         |              | PSY 131 Psychology **  | 3         |              |
|                    | 13 hrs                                |           |              | 13 hrs   |           |              |

| <i>Third Year</i> | <i>Fifth Semester</i>  | <i>CH</i> | <i>Grade</i> | <i>Sixth Semester</i>                            | <i>CH</i> | <i>Grade</i> |
|-------------------|--|-----------|--------------|--|-----------|--------------|
|                   | BIOL 254 Human Anatomy & Physiology                              | 4         |              | HSMT 304 Medical Tech. Application I             | 1         |              |
|                   | ENG 2xx Upper Level English                                      | 3         |              | HSCR 360 Principles of Disease                   | 3         |              |
|                   | HIST 232 Social & Political History of the United States to 1877 | 3         |              | HSMT 353 Clinical Microscopy and Quality Control | 4         |              |
|                   | BIOL 347 Microbiology Lec/Lab                                    | 4         |              | HSCR 260 Biomedical Ethics                       | 3         |              |
|                   |  |           |              | Visual & Performing Arts *                       | 3         |              |
|                   | 14 hrs   |           |              | 14 hrs   |           |              |

| <i>Fourth year</i> | <i>Seventh Semester</i>                | <i>CH</i> | <i>Grade</i> | <i>Eighth Semester</i>                | <i>CH</i> | <i>Grade</i> |
|--------------------|--|-----------|--------------|---------------------------------------|-----------|--------------|
|                    | HSMT 252 Serology Practice & Procedure | 3         |              | HSMT 362 Hematology II                | 3         |              |
|                    | HSMT 305 Medical Tech Application II   | 1         |              | HSMT 364 Immunohematology II          | 3         |              |
|                    | HSMT 352 Hematology I                  | 4         |              | HSMT 356 Hemostatic Processes         | 4         |              |
|                    | HSMT 354 Immunohematology I            | 3         |              | HSMT 365 Medical Chemistry II         | 3         |              |
|                    | HSMT 355 Medical Chemistry I           | 3         |              | HSMT 369 Microbial Human Disorders II | 2         |              |
|                    | HSMT 359 Microbial Human Disorder I    | 3         |              |                                       |           |              |
|                    | 17 hrs                                 |           |              | 15 hrs                                |           |              |

| <i>Fifth Year</i> | <i>Ninth Semester</i>                   | <i>CH</i> | <i>Grade</i> | <i>Tenth Semester</i>                | <i>CH</i> | <i>Grade</i> |
|-------------------|---|-----------|--------------|--------------------------------------|-----------|--------------|
|                   | HSMT 306-(MGMT) Health Sciences Seminar | 1         |              | HSCR 300 Health Sciences Seminar     | 1         |              |
|                   | HSMT 357 Clinical Practicum I           | 3         |              | HSMT 306 Comprehensive Medical Tech. | 1         |              |
|                   | HSMT 467 Clinical Blood Bank            | 4         |              | HSMT 358 Clinical Immunology         | 2         |              |
|                   | HSMT 469 Clinical Biochemistry          | 4         |              | HSMT 466 Clinical Hematology         | 4         |              |
|                   |   |           |              | HSMT 468 Clinical Microbiology       | 4         |              |
|                   | 12 hrs                                  |           |              | 12 hrs                               |           |              |

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\* Either one of the following: THC 130, 231, MUSI 131, 239, ART 131, 132

\*\* Social and behavioral Sciences requirements maybe fulfilled by either of the following: Soc 157, Soc 158, Soc 231, ECON 231, ECON 232

Internship (last Year) is restricted to students who have satisfied **ALL** program requirements and who have been approved for assignment

**LISTED COURSES**

CHEM 231/232 L  
BIOL 245

**SUBSTITUTED COURSE**

CHEM 445  
BIOL 135 &136 or BIOL 344

Name: \_\_\_\_\_ T#: \_\_\_\_\_ Phone: \_\_\_\_\_

Address: \_\_\_\_\_

Advisor: \_\_\_\_\_ Date: \_\_\_\_\_

**Approved:**

Chair, Department of Health Sciences: \_\_\_\_\_ Date: \_\_\_\_\_

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**Six Year Plan**

| <i>First year</i> | <i>First Semester</i>            | <i>CH</i> | <i>Grade</i> | <i>Second Semester</i>            | <i>CH</i> | <i>Grade</i> |
|-------------------|----------------------------------|-----------|--------------|-----------------------------------|-----------|--------------|
|                   | CHEM 111 General Chemistry I Lab | 1         |              | CHEM 112 General Chemistry II Lab | 1         |              |
|                   | CHEM 131 General Chemistry I Lec | 3         |              | CHEM 132 General Chemistry II Lec | 3         |              |
|                   | HSCR 150 Concepts of Health      | 3         |              | MATH 133 College Algebra          | 3         |              |
|                   | ENG 131 Freshman English I       | 3         |              | ENG 132 Freshman English II       | 3         |              |
|                   | 10 hrs                           |           |              | 10 hrs                            |           |              |

| <i>Second Year</i> | <i>Third Semester</i>                 | <i>CH</i> | <i>Grade</i> | <i>Fourth Semester</i>                 | <i>CH</i> | <i>Grade</i> |
|--------------------|---------------------------------------|-----------|--------------|--|-----------|--------------|
|                    | BIOL 111 Biological Science I Lab     | 1         |              | BIOL 112 Biological Science II Lab     | 1         |              |
|                    | BIOL 131 Biological Science I Lec     | 3         |              | BIOL 132 Biological Science II Lec     | 3         |              |
|                    | POLS 231 American Political Systems I | 3         |              | POLS 232 American Political Systems II | 3         |              |
|                    | ENG 2xx Upper level English           | 3         |              | CS 116 Computer Science I Lec          | 3         |              |
|                    | 10 hrs                                |           |              | 10 hrs                                 |           |              |

| <i>Third Year</i> | <i>Fifth Semester</i>   | <i>CH</i> | <i>Grade</i> | <i>Sixth Semester</i>  | <i>CH</i> | <i>Grade</i> |
|-------------------|---|-----------|--------------|--|-----------|--------------|
|                   | CHEM 211 Organic Chemistry I Lab                                    | 1         |              | CHEM 212 Organic Chemistry II lab                                      | 1         |              |
|                   | CHEM 231 Organic Chemistry I Lec                                    | 3         |              | CHEM 232 Organic Chemistry II Lec                                      | 3         |              |
|                   | MUSI 131 or ART 131<br>Intro to Music or Drawing and Comp. I        | 3         |              | HSCR 260 Biomedical Ethics   | 3         |              |
|                   | HIST 231 Social & Political History of<br>the United States to 1877 | 3         |              | HIST 232 Social & Political History of<br>the United States since 1877 | 3         |              |
|                   | 10 hrs  |           |              | 10 hrs   |           |              |

| <i>Fourth Year</i> | <i>Seventh Semester</i>                                | <i>CH</i> | <i>Grade</i> | <i>Eighth Semester</i>                                    | <i>CH</i> | <i>Grade</i> |
|--------------------|--|-----------|--------------|---|-----------|--------------|
|                    | HSMT 304 Medical Tech Applications I                   | 1         |              | HSMT 305 Medical Tech Applications II                     | 1         |              |
|                    | BIOL 245 Human Anatomy &<br>Physiology                 | 4         |              | HSMT 353 Clinical Microscopy &<br>Quality Control Lec/Lab | 4         |              |
|                    | HSMT 252 Serology Practices &<br>Procedures Lec/Lab    | 3         |              | SC 135 or 136 Speech Communication                        | 3         |              |
|                    | PSY 131 or SOC 157<br>Intro to Psychology or Sociology | 3         |              | BIOL 347 Microbiology Lec/ Lab                            | 4         |              |
|                    | HSCR 360 Principles of Disease                         | 3         |              |   |           |              |
|                    | 14 hrs   |           |              | 12 hrs  |           |              |

| <i>Fifth Year</i> | <i>Ninth Semester</i>                           | <i>CH</i> | <i>Grade</i> | <i>Tenth Semester</i>                            | <i>CH</i> | <i>Grade</i> |
|-------------------|---|-----------|--------------|--|-----------|--------------|
|                   | HSMT 352 Hematology I Lec/Lab                   | 4         |              | HSMT 362 Hematology II Lec/Lab                   | 3         |              |
|                   | HSMT 354 Immunohematology I<br>Lec/Lab          | 3         |              | HSMT 364 Immunohematology II<br>Lec/Lab          | 3         |              |
|                   | HSMT 355 Medical Chemistry I Lec/Lab            | 3         |              | HSMT 365 Medical Chemistry II<br>Lec/Lab         | 3         |              |
|                   | HSMT 359 Microbial Human Disorders I<br>Lec/Lab | 3         |              | HSMT 369 Microbial Human Disorders<br>II Lec/Lab | 2         |              |
|                   | 13 hrs  |           |              | 11 hrs   |           |              |

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| <i>Sixth Year</i> | <i>Eleventh Semester</i>                | <i>CH</i> | <i>Grade</i> | <i>Twelfth Semester</i>                               | <i>CH</i> | <i>Grade</i> |
|-------------------|---|-----------|--------------|---|-----------|--------------|
|                   | HSMT 306-(MGMT) Health Sciences Seminar | 1         |              | HSMT 306- (Research) Comprehensive Medical technology | 1         |              |
|                   | HSMT 357 Clinical Practicum I           | 3         |              | HSMT 358 Clinical Immunology                          | 2         |              |
|                   | HSMT 467 Clinical Blood Bank            | 4         |              | HSMT 466 Clinical Hematology                          | 4         |              |
|                   | HSMT 469 Clinical Biochemistry          | 4         |              | HSMT 468 Clinical Microbiology                        | 4         |              |
|                   |   |           |              | HSCR 300 Health Science Seminar                       | 1         |              |
|                   | 12 hrs                                  |           |              | 12 hrs  |           |              |

**Six Year Plan**

Internship (last Year) is restricted to students who have satisfied **ALL** program requirements and who have been approved for assignment

**LISTED COURSES**

CHEM 231/232 L  
 BIOL 245

**SUBSTITUTED COURSE**

CHEM 445  
 BIOL 135 &136 or BIOL 344

Name: \_\_\_\_\_ T#: \_\_\_\_\_ Phone: \_\_\_\_\_

Address: \_\_\_\_\_

Advisor: \_\_\_\_\_ Date: \_\_\_\_\_

Approved: Chair, Department of Health Sciences: \_\_\_\_\_ Date: \_\_\_\_\_