AIMS OF THE PROGRAM

The Clinical Laboratory Sciences program prepares students to be certified clinical laboratory technologists in hospitals and other clinical laboratory settings.

PROGRAM

Southwestern Adventist University offers a Bachelor of Science degree (134-142 semester hours) in Clinical Laboratory Sciences. This degree is offered in affiliation with Tarleton State University in Fort Worth, Texas or Andrews University in Berrien Springs, Michigan. The first three years are completed at the SWAU campus. The fourth year (12 months) of the program consists of clinical training to be completed at one of the affiliated hospital-based programs. Tarleton State University starts classes in July and January. Andrews University classes start in August. The program is accredited by the Council on Allied Health Education and Accreditation in conjunction with the National Accrediting Agency for Clinical Laboratory Sciences.

Each student must apply to the hospital training program of his/her choice, preferably early in the junior year. Acceptance into the Southwestern Adventist University program and declaration as a Clinical Laboratory Sciences major does not imply that the student will be accepted for the senior clinical year by an affiliated hospital program. The student is encouraged to maintain a science and an overall grade point average of 3.0 (on a four-point scale) or higher. The criteria for student selection by an affiliated hospital include scholastic ability, completed application materials, letters of reference, and a personal interview. At least 32 of the last 38 semester hours of academic work taken prior to the senior clinical year must be taken in residence at Southwestern Adventist University. Sixteen of the 32 hours must be science courses. English as a Second Language courses are not applicable toward residency.

Clinical Laboratory Sciences, B.S.

BIOL 111, 112 General Biology or
BIOL 101, 102 Anatomy and Physiology ........................................ 8
BIOL 220 Microbiology ...................................................... 4
BIOL 320 Genetics ......................................................... 4
MATH 121 Precalculus .................................................... 3
CHEM 111, 112 General Chemistry ........................................ 8
CHEM 331, 332 Organic Chemistry ......................................... 8
CHEM 451 Biochemistry .................................................. 3
CSIS 451 Computer Elective ............................................. 3
TOTAL ............................................................................. 41

Clinical training (see page 85) ......................................................... 42-48

Recommended Courses for Clinical Laboratory Sciences

PHYS 121, 122 Physics .................................................... 8
CHEM 221 Modern Analytical Chemistry ...................................... 4

Suggested Curriculum for Clinical Laboratory Sciences Majors

FRESHMAN YEAR

Fall
UNIV 101 University Success .................................................. 1
BIOL 111 General Biology ................................................ 4
MATH 121 Precalculus ...................................................... 3
ENGL 121 Freshman Composition ........................................ 3
CHEM 111 General Chemistry ............................................. 4
TOTAL ............................................................................. 15

Spring
BIOL 112 General Biology ................................................ 4
RLGN Religion Elective .................................................. 3
HIST History Elective ..................................................... 3
CHEM 112 General Chemistry ............................................. 4
TOTAL ............................................................................. 14

SOPHOMORE YEAR

Fall
BIOL 220 Microbiology ..................................................... 4
ENGL 220 Research and Professional Writing ..................... 3
CHEM 331 Organic Chemistry ............................................. 4
HIST History Elective ..................................................... 3
TOTAL ............................................................................. 14

Spring
COMM Speech Elective .................................................. 3
RLGN Religion Elective .................................................. 3
CHEM 332 Organic Chemistry ............................................. 4
HIST History or Humanities Elective ............................ 3
HLED 111 Health and Wellness ......................................... 3
TOTAL ............................................................................. 16

JUNIOR YEAR

Fall
CHEM 451 Biochemistry .................................................. 3
RLGN Religion Elective .................................................. 3
HIST History or Humanities Elective ............................ 3
ENGL Literature Elective ............................................... 3
CHEM 221 Modern Analytical Chemistry or
PHYS 121 General Physics ............................................. 4
TOTAL ............................................................................. 16

Spring
BIOL 320 Genetics ......................................................... 4
CSIS Computer Elective ............................................... 3
PEAC P.E. Elective ...................................................... 1
RLGN Religion Elective (upper division) ......................... 3
TOTAL ............................................................................. 11
Clinical Laboratory Sciences

SENIOR YEAR - Clinical training at an affiliated hospital institution.

Courses as listed by the Andrews University Program:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CLSC 250</td>
<td>Fundamentals of Clinical Chemistry</td>
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<tr>
<td>CLSC 260</td>
<td>Fundamentals of Human Blood Biology</td>
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<tr>
<td>CLSC 320</td>
<td>Principals of Immunology</td>
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<td>CLSC 400</td>
<td>Specimen Procurement and Processing</td>
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<td>CLSC 401</td>
<td>Clinical Year Seminar I</td>
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<td>CLSC 402</td>
<td>Clinical Year Seminar II</td>
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<td>CLSC 411</td>
<td>Hematology</td>
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<tr>
<td>CLSC 412</td>
<td>Hemostasis</td>
<td>3</td>
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<tr>
<td>CLSC 413</td>
<td>Clinical Hematology and Hemostasis Practicum</td>
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<tr>
<td>CLSC 421</td>
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<td>CLSC 423</td>
<td>Clinical Immunology Practicum</td>
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<td>CLSC 431</td>
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<td>CLSC 432</td>
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<td>CLSC 441</td>
<td>Immunohematology</td>
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<td>CLSC 442</td>
<td>Transfusion Medicine</td>
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<tr>
<td>CLSC 443</td>
<td>Clinical Immunohematology Practicum</td>
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<tr>
<td>CLSC 451</td>
<td>Clinical Chemistry</td>
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<tr>
<td>CLSC 452</td>
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<tr>
<td>CLSC 453</td>
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<tr>
<td>CLSC 460</td>
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<td>CLSC 463</td>
<td>Clinical Microscopy Practicum</td>
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<tr>
<td>CLSC 495</td>
<td>Independent Study/Readings/Research/Project</td>
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</table>

TOTAL 56

(Tarleton State University clinical year experience ................. 48)

TOTAL hours for graduation 134-142