

## Pre-Professional Curricula

### Pre-Professional Curricula for Baccalaureate Degrees

Students who complete pre-professional curricula of a minimum three years' length may earn the appropriate baccalaureate degree.

Students who plan to receive a degree under this program will be required to complete the courses listed in the catalog for their curricula. They must file an application for graduation during their last semester at Louisiana College. At the close of their first year in professional school, they will be responsible for having a statement sent to the registrar from the appropriate office at their school certifying successful completion of this year of study. Their degrees will then be awarded at the next graduation exercises.

#### Bachelor of Science in Medical Technology

Upon completion of the following program of study which includes a 12-month internship in an accredited school of medical technology, Louisiana College will grant the degree of bachelor of science in medical technology.

<b>First Year</b>	<b>Hrs</b>	<b>Second Year</b>	<b>Hrs</b>
Biology 115-116 -----	5	Biology 225-226, 331-332 -----	10
Chemistry 111-112, 113-114 -----	10	Chemistry 211 -----	3
LC Connection 100 -----	1	English 200 or 201 -----	3
English 101, 102 -----	6	Religion 101, 102 -----	6
History 101, 102 -----	6	Social Science -----	6
Mathematics 111, 112 -----	6	Oral Communication -----	3
HP 100, one other activity -----	2	Fine Arts -----	3
Total -----	36	Total -----	34
<b>Third Year</b>	<b>Hrs</b>	<b>Fourth Year</b>	<b>Hrs</b>
Biology 301-302, 321-322, 441-442 ---	15	Biology 498-499 -----	30
Chemistry 325-326 -----	5	(Med-Tech Internship)	
Philosophy 300 -----	3		
HP activity -----	1		
Foreign Language -----	3		
Computer Applications -----	3		
Total -----	30		

**Pre-Medicine Program**

Medical colleges require a minimum of three years of college work as a prerequisite to entrance; most accept only fourth-year graduates. The following three-year plan serves two purposes: (1) it is an excellent plan for all students interested in medicine and should be followed until a specific major is chosen (third and fourth years). Choosing a major in biology or chemistry will result in no loss of credit. (2) for the exceptional student who is accepted to medical school after the third year, completion of this curriculum together with successful completion of the first year of medical school, assures this student of a B.S. degree from Louisiana College when all criteria from the “Pre-Professional Curricula for Baccalaureate Degrees” statement above have been met.

<b>First Year</b>	<b>Hrs</b>
Biology 113-114, 115-116 -----	10
Chemistry 111-112, 113-114 -----	10
LC Connection 100 -----	1
English 101, 102 -----	6
Mathematics (111, 112) or (218, 318) --	6
HP 100 -----	1
Computer Applications -----	3
<b>Total -----</b>	<b>37</b>

<b>Second Year</b>	<b>Hrs</b>
Biology 223-224, 331-332 -----	10
Chemistry 331-332, 333-334 -----	10
Foreign Language -----	3
HP activities -----	2
Religion 101, 102 -----	6
Oral Communication -----	3
Social Science -----	3
<b>Total -----</b>	<b>37</b>

<b>Third Year</b>	<b>Hrs</b>
Chemistry 421 -----	3
English 200, 201 or 202 -----	3
History 101, 102 -----	6
Fine Arts -----	3
Philosophy 300 -----	3
Physics 220-221, 222, 223 -----	10
Social Sciences -----	3
Biology 441-442 -----	5
<b>Total -----</b>	<b>36</b>

## Pre-Dental Program

It is strongly recommended that pre-dental students select a major and complete all degree requirements at Louisiana College. While most students will follow a program in biology or chemistry, it is quite possible for those from other disciplines to be accepted into dental school provided all of the biology, chemistry, physics, English, mathematics and art courses listed in the three-year curriculum below are completed. Only a few exceptional students, with a high level of maturity, will be encouraged to complete the pre-dental program and apply to dental school before receiving their baccalaureate degree.

It has traditionally been the policy of Louisiana College to require more than the minimum number of courses required by the LSU Dental School in order to present superior candidates for admission and to ensure that students who are accepted to dental school will succeed. This philosophy has established Louisiana College with an outstanding reputation for training pre-dental students and has provided a high percentage of acceptances.

In order to receive a strong recommendation for dental school from Louisiana College, a student must complete all the biology, chemistry, physics, English, mathematics and art courses listed below. Students must take the majority of the advanced courses in biology, chemistry and physics at Louisiana College in order to receive a satisfactory recommendation; whereas, those who do not should expect to take additional junior-senior science courses. Official Louisiana College student recommendations are made by the dental committee composed of science faculty and chaired by the pre-dental advisor.

<b>First Year</b>	<b>Hrs</b>	<b>Second Year</b>	<b>Hrs</b>
Biology 113-114, 115-116 -----	10	Biology 223-224, 225-226 -----	10
Chemistry 111-112, 113-114 -----	10	Chemistry 331-332, 333-334 -----	10
LC Connection 100 -----	1	English 200 or 201 -----	3
English 101-102 -----	6	History 101, 102 -----	6
Math 111-112 -----	6	Religion 101, 102 -----	6
HP 100 -----	1	Foreign Language -----	3
Computer Applications -----	3		
Total -----	37	Total -----	38
<b>Third Year</b>	<b>Hrs</b>		
Art 207 -----	3		
Biology 331-332 -----	5		
Chemistry 421 -----	3		
Oral Communication -----	3		
HP activities -----	2		
Philosophy 300 -----	3		
Physics 220-221, 222-223 -----	10		
Social Science Electives -----	6		
Total -----	35		

**Pre-Optometry Program**

This three-year degree program is based on and satisfies admission requirements at optometry schools of the University of Houston and Southern College of Optometry in Memphis, Tenn., both of which accept applicants from the State of Louisiana under a tuition reduction contract with the state. Both schools also require submission of scores on the Optometry Admission Test (OAT). This test should be taken no later than October of the year prior to expected entrance.

<b>First Year</b>	<b>Hrs</b>
Biology 113-114, 115-116 -----	10
Chemistry 111-112, 113-114 -----	10
LC Connection 100 -----	1
English 101, 102 -----	6
Mathematics 218, 318 -----	6
HP 100 -----	1
 Total -----	 34

<b>Second Year</b>	<b>Hrs</b>
Biology 225-226, 231-232 -----	9
Chemistry 331-332, 333-334 -----	10
English 200 or 201 -----	3
History 101 -----	3
Religion 101, 102 -----	6
HP Activity -----	1
Psychology 220 -----	3
 Total -----	 35

<b>Third Year</b>	<b>Hrs</b>
Biology 331-332 -----	5
Foreign Language -----	3
History 102 -----	3
Chemistry 421 -----	3
Philosophy 300 -----	3
HP Activity -----	1
Physics 220-221, 222-223 -----	10
Math 211 -----	3
Fine Arts -----	3
Oral Communication -----	3
 Total -----	 37

## Pre-Veterinary Program

Schools of veterinary medicine require as a minimum for entrance from 66 to 90 semester hours of college credit with specified courses in math, chemistry, biology, physics and English. The following program is matched to fit requirements of LSU School of Veterinary Medicine. Students completing this curriculum and successfully completing the first year of study at an accredited school of veterinary medicine will be awarded a B.S. degree from Louisiana College. LSU further requires for admission the completion of the Medical College Admission Test (MCAT or GRE), the last date being the fall test preceding the year in which admission is sought.

<b>First Year</b>	<b>Hrs</b>
Biology 113-114, 115-116 -----	10
Chemistry 111-112, 113-114 -----	10
LC Connection 100 -----	1
English 101, 102 -----	6
Mathematics (111, 112) or (218, 318) --	6
HP 100 -----	1
<b>Total</b> -----	<b>34</b>

<b>Second Year</b>	<b>Hrs</b>
Biology 225-226, 311-312 -----	10
Chemistry 331-332 -----	5
HP activity -----	1
Physics 220-221, 222-223 -----	10
Religion 101, 102 -----	6
Communication Arts 112 -----	3
<b>Total</b> -----	<b>35</b>

<b>Third Year</b>	<b>Hrs</b>
Biology 223-224, 331-332 -----	10
Chemistry 421 -----	3
Economics 221 -----	3
English 200 or 201 -----	3
HP activity -----	1
History 101, 102 -----	6
Philosophy 300 -----	3
Foreign Language -----	3
<b>Total</b> -----	<b>32</b>

## Special Pre-Professional Curricula

The pre-professional programs listed below are designed to prepare students for transfer to another school for completion of the degree. Louisiana College does not grant degrees in these programs.

### Pre-Architecture Program

First Year	Hrs	Second Year	Hrs
Art 101, 102 -----	6	Art Electives -----	3
Art 103, 104 -----	6	Economics -----	3
English 101, 102 -----	6	Literature -----	6
LC Connection 100 -----	1	Business Administration 446 -----	3
History 101, 102 -----	6	Physics 220-221, 222-223 -----	10
Mathematics 111, 112 -----	6	Religion -----	3
HP activities -----	2		
		Total -----	28
Total -----	33		

### Pre-Engineering Program

The Pre-Engineering Program at Louisiana College is a two-year program for students who plan to transfer to an engineering school to complete an engineering degree. This program is designed to fit the engineering curriculum at Louisiana Tech, USL, and LSU; however, students have been able to transfer into engineering curricula in other states as well.

First Year	Hrs	Second Year	Hrs
Chemistry 111-112, 113-114 -----	10	Mathematics 322, 326 -----	6
English 101, 102 -----	6	English 200 or 201 -----	3
LC Connection 100 -----	1	History 101, 102 -----	6
Mathematics 218, 318 -----	6	Physics 240-221, 242-223 -----	10
Computer Science 150, 250-251 -----	7	Social Science -----	6
Communication Arts 112 -----	3	Fine Arts -----	3
		Total -----	34
Total -----	33		

**Pre-Pharmacy Program**

Students who successfully complete the two-year curriculum below will have the necessary prerequisites to apply to the Doctor of Pharmacy program at the University of Louisiana-Monroe.

LC Connection 100 -----	1
Accounting 211 -----	3
Biology 113-114, 115-116, 225-226 -----	15
Chemistry 111-112, 113-114, 331-332, 333-334 -----	20
Economics 221 -----	3
English 101, 102, 200 or 201 -----	9
Fine Arts <sup>1</sup> -----	3
HP 203 -----	1
Humanities Electives <sup>2</sup> -----	8
Mathematics 111, 112, 211, 218 -----	12
Physics 220-221, 222-223 -----	10
Social Work 326 <sup>3</sup> -----	3
 Total -----	 88 <sup>4</sup>

<sup>1</sup>Three hours to be selected from the areas of Art, Music, or Theater.

<sup>2</sup>A minimum of eight hours to be selected from the areas of Literature, Foreign Languages, History, Philosophy, Speech, and Religion.

<sup>3</sup>This course may be completed after admission to Pharmacy School.

<sup>4</sup>Pharmacy 301 must be taken at ULM.

**Pre-Dental Hygiene**

Students who successfully complete the two year pre-dental hygiene curriculum below may transfer to University of Louisiana-Monroe and complete the bachelor of science degree after two additional years of study. The requirements below will be similar to those at professional schools other than University of Louisiana-Monroe, but students planning to apply to a different school should check for differing requirements.

<b>First Year</b>	<b>Hrs</b>	<b>Second Year</b>	<b>Hrs</b>
LC Connection 100 -----	1	Business Administration 200 -----	3
English 101, 102 -----	6	Biology 225-226, 231-232, 233-234 ---	13
Math 100, 111 -----	6	Education 195 -----	3
Chemistry 105, 211 -----	6	Sociology 223 -----	3
HP 203, 222 -----	3	Communication Arts 112 -----	3
Psychology 220 -----	3	English 200, 201, or 202 -----	3
Sociology 221 -----	3	Elective <sup>6</sup> -----	3
Fine Arts <sup>5</sup> -----	3	 Total -----	 31
 Total -----	 31		

<sup>5</sup>To be selected from Music, Art or Theatre.

<sup>6</sup>To be selected from Literature, History, Philosophy, Religion or Foreign Language.

**Pre-Physical Therapy**

Louisiana’s only accredited program in physical therapy (LSU Medical Centers in Shreveport and New Orleans) is now a Master’s level program with a baccalaureate (B.S. or B.A.) degree as one of the prerequisites for admission. They usually admit approximately 60 students per year on a highly competitive basis. The degree can be in any major, but must include the following requirements:

	Hrs
English Composition -----	6
Advanced English Composition, Technical Writing, or Exposition ----	3
Chemistry (Laboratory based, for science majors) -----	8
Biology/Zoology (Laboratory based, for science majors) -----	8
Physics (Laboratory based, for science majors) -----	8
Advanced Biology (Recommended: Histology, Cell Biology, or Microbiology) -----	3
Anatomy (Recommended: Human Anatomy) -----	3
Physiology (Recommended: Human Physiology) -----	3
Mathematics (Algebra level or above) -----	6
Psychology (Recommended: Abnormal Psychology & Growth and Development) -----	6
Statistics (Behavioral or Experimental)* -----	3
Computer Science (Microcomputers, Programming, or Computer -based Mathematics)** -----	3
Speech or Public Speaking -----	3

\*Credits in Statistics may be used to meet Math requirements if taught in a Math Department.  
 \*\*Credits in Computer Science may be used to meet additional Math credits above the Algebra level (if taught in Math Department) or Statistics requirement (if both Statistics and Computer Science are included in the course.)  
 Note: Courses may meet the admission requirements only if taken in the respective department. The Department of Physical Therapy is not obligated to accept challenge credits in lieu of prerequisite courses. Admission requirements may change from year to year as modifications occur in the Department. Applicants are strongly urged to contact the Department annually to avoid the risk of not meeting admission requirements in the expected time frame.

The program also requires at least 50 clock hours experience with a licensed physical therapist (the more experience, the better) and your scores from the Graduate Record Exam (GRE). We have six health care facilities (hospitals and state institutions) that accept our students for their practical experience in P.T., plus several private health care/P.T. providers.

### Pre-Occupational Therapy

The LSU Medical Centers in Shreveport and New Orleans offer occupational therapy training at the Master's level. The requirements for admission include a baccalaureate (B.S. or B.A.) degree, the graduate record exam (GRE), CPR certification, a minimum of 20 hours of clinical observation under the supervision of an OTR, and a grade point average of 2.8 or higher in the following course work.

<b>Course</b>	<b>Hrs</b>
Anatomy with lab -----	4
Physiology (lab recommended) -----	3
Physics with lab -----	4
Chemistry (general/organic) -----	3
Abnormal psychology -----	3
Human Development Through the Lifespan (3 credits if lifespan is covered in one semester, 9 if three semesters) -----	3-9
Sociology -----	3
Statistics (inferential) -----	3

#### **Strongly recommended course work:**

Medical Terminology  
 Technical Writing  
 Public Speaking  
 Computer Science

## Pre-Professional Therapy Curricula

Students completing the two year curricula below in Pre-Physician Assistant or Pre-Respiratory Therapy will be prepared for application to professional programs at Louisiana State University Medical Centers at New Orleans or Shreveport where they may complete a Bachelor of Science degree and certification after two additional years of study. Students in any of these four programs who intend to apply to an out of state professional school should check for specific program requirements.

### Pre-Physician Assistant

<b>First Year</b>	<b>Hrs</b>	<b>Second Year</b>	<b>Hrs</b>
Biology 113-114 -----	5	Biology 225-226 -----	5
Chemistry 111-112, 113-114 -----	10	Biology 231-232 -----	4
Math 111, 112 (or higher) -----	6	Physics 220-221 or 222-223 -----	5
LC Connection 100 -----	1	Psychology Elective -----	3
English 101, 102 -----	6	Fine Arts -----	3
Humanities Electives <sup>1</sup> -----	6	Social Science Elective <sup>2</sup> -----	3
		Humanities Elective (upper level) -----	3
Total -----	34	Computer Science 150 -----	3
		Psychology 220 -----	3
		Total -----	32

<sup>1</sup>Humanities electives chosen from Philosophy, Foreign Language, Religion, History, Literature, or Speech/Communication.

<sup>2</sup>Social science elective chosen from Economics, Political Science, Geography, Anthropology, Psychology, or Sociology.

### Pre-Respiratory Therapy

<b>First Year</b>	<b>Hrs</b>	<b>Second Year</b>	<b>Hrs</b>
Biology 113-114, 115-116 -----	10	Biology 225-226 -----	5
Chemistry 111-112, 113-114 -----	10	English 200 or 201, 361 -----	6
LC Connection 100 -----	1	Physics 220-221 -----	5
English 101, 102 -----	6	Psychology 220 -----	3
Math 111, 112 -----	6	Science Electives <sup>3</sup> -----	6
		Fine Arts -----	3
Total -----	33	Foreign Language -----	3
		Computer Science 150 -----	3
		Total -----	34

<sup>3</sup>Recommended: Biology 231-232 and 233-234 or 335-336 or Chemistry 331-332.