PALMER COLLEGE OF CHIROPRACTIC

3+3 BACHELOR OF SCIENCE BIOLOGY/ DOCTOR OF CHIROPRACTIC COMBINED DEGREE PROGRAM

OVERVIEW

Chiropractors treat patients whose health problems originate in the spine. Treatment options include adjustment of the spine, exercise, and nutrition. The 3+3 program, created in an effort to better serve students intending to pursue the chiropractic profession, provides qualified students with an opportunity to complete the Bachelor of Science in Biology degree and the Doctor of Chiropractic degree in six years instead of seven years.

The Biology program at Lewis University is designed to prepare undergraduate students for a graduate health professional school. The first three years of the program consists of a broad-based curriculum (a minimum of 90 semester hours) that includes courses in biology, chemistry, physics, psychology, and mathematics, and that maximizes the number of elective science courses. Lewis University's affiliation with **Palmer College of Chiropractic** enhances the student's opportunity for a career in chiropractic care. This affiliation allows a preferential consideration for the Lewis student during the admission process into Palmer College, and provides an opportunity for the student to pursue the 3+3 program. If accepted by Palmer, the fourth year is completed at Palmer College of Chiropractic, with this year serving as both the senior year of undergraduate study and the first year of the professional program.

The Palmer curriculum is a graduate-level program that is typically completed in a little more than three calendar years but is equivalent to a five-academic-year program. Students in the Palmer Doctor of Chiropractic (D.C.) program take more hours in anatomy, physiology, diagnosis and neurology than those in typical medical school programs. During the first year, students learn the basic sciences that are the foundation of chiropractic while in the second year, courses in chiropractic technique, X-ray and practice management courses are added. The third year is devoted to caring for patients in an outpatient clinic setting as well as business preparation. Palmer College of Chiropractic, located in Davenport, Iowa, has the largest chiropractic research facility in the world and opened a 50,000 square-foot facility in 2007 featuring a state-of-the-art outpatient clinic as well as leading-edge clinical learning resources for students, faculty, researchers, and alumni.

CAREER OPPORTUNITIES

According to the Bureau of Labor Statistics, the job outlook for chiropractors in the next decade is strong. Consumer demand is expected to create "faster than average" growth for employment opportunities as demands for alternative approaches to healthcare grows. A 2005 survey conducted by Chiropractic Economics reported that the mean salary for chiropractors was $104,363.

CONTACT

Dr. Jennifer Roberts
Lewis University
Unit 250
One University Parkway
Romeoville, IL 60446-2200
(815) 836-5396
robertje@lewisu.edu

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ADDITIONAL WEB SITES FOR FURTHER INFORMATION

Lewis University – *www.lewisu.edu*

Palmer College of Chiropractic – *www.Palmer.edu*

International Chiropractors Association – *www.chiropractic.org*

American Chiropractic Association – *www.acatoday.org*

Council on Chiropractic Education – *www.cce-usa.org*

3+3 BACHELOR OF SCIENCE BIOLOGY COMBINED DEGREE PROGRAM PALMER COLLEGE OF CHIROPRACTIC

Total Credit Hours 128
Major Credit Hours 65
(not including transfer coursework from Palmer)

A grade of C or better must be earned in a prerequisite course in order to advance to the next course in the sequence.

Biology majors may take a Biology class only two times. If the student has not achieved a minimum of a C after the second attempt, the student may not repeat the class.

The Biology Department will award 3 hours of credit for our general education class 02-100 (Introduction to Biology) when students have received a score of 4 or 5 on AP tests. We do not award any credit for major classes based on AP scores.

I. Core Courses

02-110 General Biology I (4)
02-111 General Biology I Lab (1)
03-110 General Chemistry I (4)
03-111 General Chemistry I Lab (1)
02-115 General Biology II (4)
02-116 General Biology II Lab (1)
03-115 General Chemistry II (4)
03-116 General Chemistry II Lab (1)
13-200 Calculus I (4) OR
13-211 Calculus for the Life Sciences (4)
02-220 Genetics (4)
02-221 Genetics Lab (1)
02-224 Microbiology (4)
02-226 Microbiology Laboratory (1)
03-220 Organic Chemistry I (4)
03-221 Organic Chemistry I Lab (1)
03-225 Organic Chemistry II (4)
03-226 Organic Chemistry II Lab (1)
02-355 Biochemistry I - Molecular Biochemistry with Clinical Correlates (3)
02-356 Biochemistry I Lab (1)
02-320 Biometry (3)
02-335 Advanced Clinical Physiology
02-336 Case Studies in Human Physiology (1)
17-200 College Physics I (4)
17-201 College Physics I Lab (1)
17-205 College Physics II (4)
17-206 College Physics II Lab (1)

II. The advanced writing requirement of the General Education curriculum is satisfied by the successful completion of the following courses that contain strong writing components: General Biology Labs I and II and Microbiology Lab.

PARADIGM FOR B.S. IN BIOLOGY / DOCTOR OF CHIROPRACTIC COMBINED DEGREE PROGRAM

FIRST YEAR

First Semester (18 hours)
General Biology I (4) and Lab (1)
General Chemistry (4) and Lab (1)
Calculus I (4) or Calculus for the Life Sciences (4)
Introduction to Human Communication (3)
Introduction to the College Experience (1)

Second Semester (16 hours)
General Biology II (4) and Lab (1)
General Chemistry II (4) and lab (1)
College Writing I (3)
General Psychology (3)

SECOND YEAR

First Semester (16 hours)
Genetics (4) and Lab (1)
Organic Chemistry (4) and Lab (1)
College Writing II (3)
Culture and Civilization I (3)

Second Semester (16 hours)
Microbiology (4) and Lab (1)
Organic Chemistry II (4) and Lab (1)
Introduction to Philosophy (3)
Culture and Civilization II (3)

THIRD YEAR

First Semester (18 hours)
Biochemistry I (3) and Lab (1)
College Physics I (4) and Lab (1)
Theology I (3)
Cultural Diversity (3)
Ethics (3)

Second Semester (16 hours)
Advanced Clinical Physiology (3)*
Case Studies in Human Physiology (1)*
Biometry (3)
College Physics II (4) and Lab (1)
Fine Arts (3)
Theology II (3)

* *these courses may be substituted with Biochemistry II and the associated Lab*

This paradigm requires the student to take two general education courses during the summer term or as an overload (19 hours) during one of the 16 hour semesters. Based upon the current outline, those courses would be:

1. Literature
2. Economics

At the end of the third year, provided all pre-requisites were met successfully (coursework completed; 2.75 GPA maintained – no grade less than a "C" in pre-requisite science/math courses), the student would transfer to Palmer College of Chiropractic to begin doctoral studies. These first year courses would also serve as fourth year coursework at Lewis University.

Palmer Semester I
Neuroanatomy
Spinal Anatomy I
Gross Anatomy I
Embryology
Rights & Responsibilities
Information Literacy
Biochemistry I
Fundamentals of Neurophysiology
Philosophy I

Palmer Semester II
Gross Anatomy II
Spinal Anatomy II
Biochemistry II
Cellular Physiology
Neurophysiology
Endocrinology
Philosophy II

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