

# NORTHWESTERN HEALTH SCIENCES UNIVERSITY 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 the usual seven.

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 Northwestern Health Sciences University 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 Northwestern Health Sciences University, and provides an opportunity for the student to pursue the 3+3 program. If accepted by Northwestern, the fourth year is completed at Northwestern, with this year serving as both the fourth year of undergraduate study and the first year of the professional program.

Northwestern Health Sciences University offers a four-year (ten trimesters) graduate program leading to the Doctor of Chiropractic degree. Northwestern offers modern facilities, extensive hands-on experiences, and the opportunity to be taught by outstanding faculty members who provide a national standard for teaching and learning. The three year and four month chiropractic program includes student in basic, chiropractic and clinical sciences as well as an extensive clinical rotation. The combination of classroom studies and hands-on experiences totals more than four thousand two-hundred hours spent preparing for a successful chiropractic practice.

## 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

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(815) 836-5250  
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## ADDITIONAL WEB SITES FOR FURTHER INFORMATION

Lewis University – [www.lewisu.edu](http://www.lewisu.edu)

Northwestern Health Sciences University –  
[www.nwhealth.edu](http://www.nwhealth.edu)

International Chiropractors Association –  
[www.chiropractic.org](http://www.chiropractic.org)

American Chiropractic Association – [www.acatoday.org](http://www.acatoday.org)

Council on Chiropractic Education – [www.cce-usa.org](http://www.cce-usa.org)

## 3+3 BACHELOR OF SCIENCE BIOLOGY COMBINED DEGREE PROGRAM NORTHWESTERN HEALTH SCIENCES UNIVERSITY

Total Credit Hours 137

Major Credit Hours 60-61

(not including transfer of coursework from Northwestern)

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)
  - 02-320 Biometry (3)
  - 02-335 Advanced Clinical Physiology (3)\*
  - 02-336 Case Studies in Human Physiology (1)\*
  - 02-355 Biochemistry I: Molecular Biochemistry with Clinical Correlates (3)
  - 02-356 Biochemistry I Lab (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)
- \* *these courses may be substituted with Biochemistry II and the associated Lab*

- ### 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)  
College Writing I (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 II (3)  
General Psychology (3)

### SECOND YEAR

#### **First Semester (16 hours)**

Genetics (4) and Lab (1)  
Organic Chemistry (4) and Lab (1)  
Introduction to Human Communication (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)  
Religion I (3)  
Cultural Diversity (3)  
Ethics (3)

#### **Second Semester (18 hours)**

Advanced Clinical Physiology (3)\*  
Case Studies in Human Physiology (1)\*  
College Physics II (4) and Lab (1)  
Fine Arts (3)  
Biometry (3)  
Religion 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 Junior year, provided all pre-requisites were met successfully (coursework completed; 3.2 GPA maintained – no grade less than a “C” in pre-requisite science/math courses), the student would transfer to Northwestern Health Sciences University to begin doctoral studies. These first year courses would also serve as Senior year coursework at Lewis University.

