

COURSES OF INSTRUCTION DOCTORAL & DOCTORATE PROGRAMS

DOCTORAL PROGRAM

The doctor of chiropractic program (D.C.P.) leads to an entry-level professional degree. The curriculum concentrates on specialized chiropractic skills and application of research methodologies to evidence-based practice. It encompasses class work, labs and clinical rotations over a period of 11 semesters. Internship and externship experiences include a total of 1,200 hours at a variety of clinical settings including, but not limited to the college's clinics, externships, placement in community-based institutions, hospital rotations, and private practices.

The program is approved by the New York Board of Regents and is registered with the New York State Education Department. The doctor of chiropractic degree program is accredited by the Commission on Accreditation of the Council on Chiropractic Education. Students who successfully complete the doctor of chiropractic program are eligible to sit for the National Board of Chiropractic Examiners (NBCE) and the Canadian Chiropractic Examining Board (CCEB) licensure examinations. Graduates who pass the NBCE examinations may apply for licensure in all states. Students are advised that some states may have additional or special requirements that must be met in order to obtain licensure in that state. For example, some states currently require a baccalaureate degree in addition to a doctor of chiropractic degree to apply for licensure. In some cases, the baccalaureate degree must be earned prior to entering the chiropractic program. In other cases, the baccalaureate degree may be earned concurrently with the doctor of chiropractic degree. Individual state requirements for chiropractic licensure are subject to change.

Students should be aware that graduation from an academic program does not guarantee licensure, registration, and/or board certification for entry into practice. It is the student's responsibility to check with the state licensure board in the jurisdiction(s) in which they wish to practice for any additional requirements that must be met for licensure in that state, and to meet those requirements if they desire to obtain licensure to practice in that state.

DOCTOR OF CHIROPRACTIC (D.C.)

PROGRAM MISSION STATEMENT

D'Youville College's doctor of chiropractic program strives to prepare knowledgeable and highly skilled primary health care practitioners – through research, related scholarly activities and service – to achieve excellence in expressing the science of chiropractic and the art of healing.

ADMISSION REQUIREMENTS

Each student admitted to begin the D.C.P. on the basis of academic credentials from institutions within the United States must meet the following requirements:

- a) All applicants must furnish proof of having earned a minimum of 90 semester-hour credits of appropriate pre-professional education courses at an institution or institutions accredited by a nationally recognized agency. Included in these credits must be a minimum of 48 semester-hour credits in the course areas noted below. In addition, all applicants must have earned a cumulative grade point average of at least 2.50 on a scale of 4.00 for the courses listed below, and for the required 90 semester hours. Quarter-hour credits may be converted to equivalent semester-hour credits. In situations in which one or more courses have been repeated with equivalent courses, the most recent grade(s) will be used for grade point average computation and the earlier grade(s) will be disregarded.
- b) All applicants must present a minimum of 48 semester-hours credit (or the quarter-hour credit equivalents), distributed as follows:
 - English Language Skills: 6 semester-hours
 - Psychology: 3 semester-hours
 - Social Sciences or Humanities: 15 semester-hours
 - Biological Sciences*: 6 semester-hours
 - Chemistry**: 12 semester-hours
 - Physics and related studies***: 6 semester-hours

In each of the six distribution areas, no grades below 2.00 on a 4.00 scale will be accepted.

In each of the six distribution areas, if more than one course is taken to fulfill the requirement, the course contents must be unduplicated.

* The biological sciences requirement must include pertinent laboratory experiences that cover the range of material presented in the didactic portions of the course(s).

** The chemistry requirement may be met with at least eight (8) credits of chemistry course(s) with lab(s) and four (4) credits in either a general chemistry or a biochemistry course with unduplicated content.

*** The physics requirement may be met with at least six (6) credits of physics course(s) with lab(s). Three of the six credits may be substituted with three (3) credits in biomechanics, kinesiology, statistics or exercise physiology.

In the event an institution's transcript does not combine laboratory and lecture grades for a single course grade, a weighted average of those grades will be calculated to establish the grade in that science course.

- c) Students who have earned a portion of the prerequisite credits through examination or means other than formal coursework, as identified by an institution accredited by a nationally recognized agency, which formally has accepted or awarded such credits, may be admitted upon receipt of such evidence.
- d) Students who hold a degree leading to licensure/registration in a health science discipline at the baccalaureate level or above with an earned cumulative grade point average of at least 2.50 on a scale of 4.0, or who hold a baccalaureate degree from an institution accredited by a nationally recognized accrediting agency with an earned grade point average of at least 3.25 on a scale of 4.0, may be admitted to the D.C.P. upon presenting evidence that their academic preparation substantially meets the requirements for admission.

STUDENTS ADMITTED TO THE D.C.P. FROM INTERNATIONAL INSTITUTIONS

Each student admitted to begin the D.C.P. on the basis of academic credentials from institutions outside the United States must meet the following requirements:

- a) Provide evidence of proficiency in reading and writing English, and an understanding of oral communication in English.
- b) Demonstrate academic preparation substantially equivalent to that possessed by beginning students admitted from United States institutions.
- c) Provide evidence of proficiency in the subject matter of each course for which credits are accepted.
- d) Provide evidence of having financial resources sufficient to complete at least one full year of full-time attendance in the D.C.P.
- e) Meet all applicable legal requirements for study in the United States. (Please reference CCE Policy COA-25 in this regard.)

TRANSFER POLICIES

Students Transferring from Another Institution or Seeking Advanced Standing

Each student transferring credits applicable to the D.C.P. must meet the following requirements:

- a) The applicant for transfer from another doctor of chiropractic program (D.C.P.) must meet the admissions requirements that were in force at the admitting D.C.P. on the date the student originally enrolled in the D.C.P. from which the transfer is being made.
- b) Credits considered for transfer must have been awarded for courses taken in a D.C.P. accredited by the CCE or in a program accredited as a first professional degree in one of the health sciences by another nationally recognized accrediting agency, or in a graduate program in an academic discipline closely related to the health sciences offered by an institution which is recognized by a national accrediting agency.
- c) Only credits recorded on an official transcript of the issuing institution with an equivalent grade of 2.00 on a 4.00 scale or better will be considered for transfer.
- d) Credits accepted for transfer must be determined to be substantially equivalent to courses offered by D'Youville.
- e) Credits accepted for transfer must have been awarded within five years of the date of admission, except that D'Youville may at its option accept older credits if the entering student holds an earned doctorate in one of the health sciences (e.g., D.C., MD, DO, DDS, DPM) or a graduate degree in an academic discipline closely related to the health sciences.
- f) Credits accepted for transfer from institutions outside the United States must be accompanied by evidence of the individual student's proficiency in the subject matter of each course for which credits are accepted.
- g) Transfer students must complete all of the internship requirements at DYC.
- h) Transfer students may not transfer more than 50 percent of chiropractic specific courses.

ACADEMIC REGULATIONS

In addition to the general academic requirements, all matriculated students in the D.C.P. must fulfill these requirements:

1. Students must maintain a minimum overall 2.5 G.P.A. Additionally, no grade of less than a C will be acceptable for any course taken in the professional degree program. Students who fail to meet the minimum overall G.P.A. requirements will be placed on academic probation. While on academic probation students may be limited in the number of credit-hours they may register for per semester. Probation may continue for a maximum of two consecutive semesters or a total of three nonconsecutive semesters. Students who exceed these limits may be dismissed from the program. Students who earn a grade less than a C in any course will be required to repeat the course. A course may not be repeated more than twice.
2. To be eligible for internship status, the student must be in good academic standing, must have successfully completed all prerequisites and must have passed the clinical services entrance requirements. These requirements must include documented evidence that the student has completed a minimum of 150 clock hours of supervised practice labs, during which at least 15 chiropractic encounters for correction of vertebral subluxations are accrued; and further, that the assessments, diagnoses, treatments and evaluations of these subluxations must be judged to have been rendered competently.
3. The internship program requires the students to complete a minimum of 600 clock hours of practice experience in chiropractic labs and/or at the college's chiropractic clinics under the direct supervision of qualified faculty, as well as completion of the intern certification examination process.
4. The certification examination process

includes a written examination and a clinical performance competency evaluation. The written examination is comprehensive in nature. It includes questions designed to test the student's attitudes, knowledge and skills in the following areas of practice: history taking, physical examination, neuromusculoskeletal examination, bio-psycho-social-spiritual assessment, diagnostic studies, diagnosis, case management, chiropractic adjustment and manipulation, emergency care, case follow-up and review, record keeping, doctor-patient relationships, professional issues, and research and other scholarly activities.

5. To be eligible for externship status the student must be in good academic standing, must have successfully completed all prerequisites, and must have passed the clinical certification examination process. Successful completion of the externship program will require the students to complete, under the supervision of licensed chiropractic practitioners who hold appointment as clinical adjunct professors of chiropractic, a minimum of 600 clock hours of clinical practice taking place in community-based chiropractic clinics.
6. To meet minimum clinical competency requirements (CCE standards), students and faculty will be required to maintain documented evidence that, by the completion of the program, each student will have been evaluated and will have demonstrated clinical competency in the performance of the following essential elements of patient care:
 - A history on 35 different patients (28 must be non-student* patients);
 - An examination on 26 different patients (16 must be non-student* patients), and clinical examination involving 15 different case types (which may be included among the 20 different patients, or in which the student may assist, observe, or participate in live, paper-based, computer-based, distance learning or other reasonable alternative);

- Interpretations, while enrolled in both the didactic and clinical phases of the D.C.P., of clinical laboratory tests to include at least 25 urinalysis; 20 hematology procedures such as blood counts; and 10 clinical chemistry, microbiology or immunology procedures or profiles on human blood and/or other body fluids;
- 30 radiographic studies (25 percent must be evaluated for the technical component, 100 percent must be evaluated for the interpretive component), and interpretation of radiographic studies involving 15 different case types (which may be included among the 30 radiographic studies, or in which the student may assist, observe, or participate in live, paper-based, computer-based, distance learning or other reasonable alternative);
- A diagnosis on 20 different patients (16 must be non-student* patients), each with defined case management plans, and diagnosis of 15 different case types, each with defined case management plans (which may be included among the 20 different patients, or in which the student may assist, observe, or participate in live, paper-based, computer-based, distance learning, or other reasonable alternative);
- 250 chiropractic adjustments or manipulations, at least 200 of which must be spinal adjustments, provided during 250 separate encounters (200 must be non-student* patients), of which at least 75 must be assessed through direct observation;
- Evaluating and managing at least 30 cases (to increase by five every two years to a maximum of 35 after September 2011, 30 after the beginning of the Fall 2009 term and 35 after the beginning of the fall 2011 term) which, due to their complexity, require a higher order of clinical thinking and integration of data.

This would include cases which demand the application of imaging, lab procedures or other ancillary studies in determining a course of care, or cases in which multiple conditions, risk factors, or psychosocial factors have to be considered. A minimum of ten cases must be live-patient cases (eight of which must be non-student* patients). In the remaining cases, the student may assist, observe, or participate in live, paper-based, computer-based, distance learning, or other reasonable alternative.

** A non-student patient is any patient other than a student of the D.C.P. and a student intern's spouse, parents or children.*

7. The doctor of chiropractic program requires that each student awarded the D.C. degree must earn not less than 25 percent of the total credits required for the D.C. degree from D'Youville College.
8. For financial aid purposes, students enrolled in this professional degree program may apply for graduate financial aid assistance.

REQUIRING THE CHIROPRACTIC COLLEGE ASSESSMENT TEST (CCAT)

We recognize that the decision to pursue a D.C. degree is an important one. We also recognize that the decision to admit a student to the program brings with it our commitment and obligation to assist the student in being successful in obtaining and realizing their academic goal.

The Chiropractic College Assessment Test (CCAT) results have been shown to be highly correlated with success in chiropractic programs. The CCAT test may be required for program applicants whose academic records raise questions as to whether or not the student will be successful in meeting the academic challenges of the program.

The test results are used to assist the student in making academic choices and the faculty in advising and developing realistic and success-oriented individualized academic plans.

ACADEMIC PROBATION

A student may be placed on academic probation when there is a failure to satisfy specific program academic standards or regulations. A student placed on academic probation will remain on probation for two consecutive semesters. Academic deficiencies that result in program academic probation must be corrected within these two consecutive semesters. Failure to meet the academic standards during a probationary period may result in dismissal from the program. Permission to continue in the program will be decided on a case-by-case basis and may result in dismissal from the program.

Students may appeal the decision of dismissal from the program to the executive director. The appeal is initiated with a letter from the student to the executive director describing extenuating circumstances that limited academic performance. The executive director presents the appeal to the program faculty committee for consideration. If the appeal is accepted, the committee will make a determination of the student's probationary status. For information on the appeal process beyond the department head, students should consult the college undergraduate catalog.

PERFORMANCE QUALIFICATIONS

Physical Requirements:

Students should have adequate physical abilities, strength, and coordination necessary for appropriate execution of procedures related to patient care.

Sensory Requirements:

Students must have the ability to utilize sensory information as necessary and appropriate toward the acquisition, analysis, and integration of knowledge as follows:

Visual

- Ability to utilize visual observational skills, whether in the laboratory, classroom, or clinical setting, to the degree of being able to inspect a patient, use diagnostic instruments such as an otoscope and ophthalmoscope, interpret radiographs and other diagnostic images, and be able to accurately discern discolorations of the skin.

Auditory

- Capacity to acquire information through auditory-based systems such as auscultation and percussion.

Touch

- ability to make determinations through palpation.

Smell

- ability to recognize that certain odors may be indicative of specific pathological conditions and to accurately identify odors and recognize the significance of a particular odor.

TECHNICAL REQUIREMENTS:

Cognitive

- ability to acquire, assess, analyze, and integrate information in varying settings and situations.
- ability to conceptualize three-dimensional objects and their relationship to related structures and/or function..
- capacity to problem solve and to appropriately utilize knowledge and skill sets in novel situations.
- ability to demonstrate professionalism, decorum, and sound judgment as expected of a physician.

Communication

- have the ability to effectively communicate with individuals, notably patients, towards the objective of gathering and disseminating information
- skill set necessary for clear, articulate, and coherent communication, including verbal and written with all involved individuals including other practitioners, faculty, and patients.

COURSE REQUIREMENTS**DOCTOR OF CHIROPRACTIC (D.C.)****DEGREE: B.S. BIOLOGY (PRE-PROFESSIONAL)**

REQUIRED COURSES:	CREDITS
Biology	
BIO 507 Anatomy and Physiology Lab I	1
BIO 508 Anatomy and Physiology Lab II	1
BIO 603 Biochemistry	4
BIO 607 Pathophysiology.....	3
BIO 608 Microbiology	4
BIO 610 Immunology.....	3
BIO 639 Human Gross Anatomy.....	6
BIO 659 Intermediate Physiology I.....	3
BIO 660 Intermediate Physiology II	3
<i>Subtotal</i>	<i>28</i>
Research:	
GRA 600 Theory Development	3
GRA 601 Research Methods and Design.....	3
<i>Subtotal</i>	<i>6</i>
Project Option Requirements	
CHR 626 Project Seminar	2
CHR 627 Project Advisement.....	1-3
<i>Subtotal</i>	<i>3-5</i>
Thesis Option Requirements	
GRA 610 Thesis Seminar	3
GRA 629 Thesis Advisement	3-6
<i>Subtotal</i>	<i>6-9</i>
Supportive:	
HSA 606 Culture, Health and Health Care.....	3
or HSA 612 Culture, Health and Health Care.....	1
SOC 600 Epidemiology.....	3
or CHR 634 Epidemiology & Public Health for Chiropractors	3
PHI 600 Philosophical Methods.....	3
PHI 609 Ethics in Health Care.....	3
<i>Subtotal</i>	<i>13 or 15</i>
Chiropractic:	
CHR 600 Introduction to Chiropractic Philosophy, History, Theory and Practice	3
CHR 600L Introduction to Chiropractic Lab.....	2
CHR 601 Analysis and Adjustive Techniques I	7
or CHR 650 Adjustive Technique I.....	3
and CHR 651 Adjustive Technique II	2
and CHR 652 Adjustive Technique III.....	2
CHR 602 Analysis and Adjustive Techniques IV.....	7
or CHR 653 Adjustive Technique II	7
CHR 603 Analysis and Adjustive Techniques V (Ortho I)	7
or CHR 654 Adjustive Technique III (Ortho I).....	7
CHR 604 Analysis and Adjustive Techniques VI (Ortho II)	7
or CHR 655 Adjustive Technique IV (Ortho II).....	7

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CHR 605	Diagnostic Imaging I.....7	7
	or CHR 661 Diagnostic Imaging I.....4	4
	and CHR 665 Diagnostic Imaging V (positioning) 3	3
CHR 606	Diagnostic Imaging II7	7
	or CHR 662 Diagnostic Imaging II7	7
CHR 607	Diagnostic Imaging III.....7	7
	or CHR 663 Diagnostic Imaging III.....7	7
CHR 608	Diagnostic Imaging IV7	7
	or CHR 664 Diagnostic Imaging IV7	7
CHR 609	Applied Neurology7	7
	or CHR 657 Applied Neurology5	5
CHR 610	Nutrition Throughout the Lifecycle.....3	3
CHR 611	Nutrition and Health3	3
CHR 612	Diet Therapy 2	2
CHR 613	Pharmacology I.....3	3
CHR 614	Pharmacology II3	3
CHR 615	History and Physical Exam.....3	3
	and CHR 616 Physical Diagnosis I.....5	5
	and CHR 617 Physical Diagnosis II5	5
	and CHR 618 Physical Diagnosis Clinical Lab I..... 5	5
	and CHR 619 Physical Diagnosis Clinical Lab II..... 5	5
	or	
	CHR 639 History and Physical Examination5	5
	and CHR 640 Clinical Diagnosis.....7	7
CHR 620	Clinical Neuroscience5	5
	or CHR 656 Clinical Neuroscience5	5
CHR 621	Physiologic Therapeutics5	5
CHR 622	Entrepreneurship3	3
CHR 623	Clinical Internship I.....7	7
CHR 624	Clinical Internship II7	7
CHR 625	Clinical Externship7	7
CHR 636	Sports & Emergency Care3	3
	or CHR 689/680 CPR and Emergency Care 1	1
CHR 637 (679/690)	Chiropractic Rehabilitation.....5	5
CHR 638	Psychology for Health Care Professionals3	3
	or HSA 689 Human Sexuality.....3	3

TOTAL CREDITS REQUIRED FOR THE D.C.

Project Option184-186
Thesis Option187-190

STUDENTS STARTING PROGRAM SUMMER 2010 OR LATER

Additional required classes (these are strongly recommended for students currently in program)

Supportive:

HSM 203	Medical Terminology.....	1
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Chiropractic:

CHR 631	Chiropractic Biomechanics.....	3
CHR 635	Spinal Anatomy.....	4