

# NICHOLLS STATE UNIVERSITY

## UNDERGRADUATE AND GRADUATE BULLETIN FOR 2006-2007

Nicholls State University is a Member of the University of Louisiana System

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### DEPARTMENT OF PHYSICAL SCIENCES

Office: 210 Beauregard Hall

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Professors: Chauvin

Associate Professor: Lo

Assistant Professors: Baker, Dou, Free, D. Smith, Wessel, C. Young.

Instructors: Lamberty, Newchurch.

The Department of Physical Sciences offers courses in chemistry, geology, physical science and physics. The university awards from this department the Bachelor of Science degree in Chemistry. The Professional Chemistry concentration for the B.S. degree is certified by the American Chemical Society (ACS) Committee on Professional Training (CPT). A minor in chemistry must include CHEM 105, 106, 110, 221, 222, 226, 300, 302 and at least 3 additional semester hours chosen from other chemistry courses numbered 300 or above. A minimum grade of C is required in the chemistry minor courses.

### Chemistry Program

The university awards the Bachelor of Science degree with a major in Chemistry to a student who completes the minimum requirements of the College of Arts and Sciences and earns a minimum grade of C in required mathematics and physical science courses. The curriculum provides both experimental and theoretical work in the five principal branches of chemistry - analytical, biochemistry, organic, inorganic, and physical. The Chemistry Program is designed to be flexible and to allow students to choose elective courses best suited for their future career goals.

The chemistry curriculum offers two concentrations: Professional Chemistry which is ACS certified and Pre-Medical/Pre-Dental Chemistry.

The Department of Physical Sciences also accepts students in the Early Acceptance Program for the Tulane University School of Medicine. Eligible candidates must have earned by the end of their spring semester of their second year at Nicholls at least 60 hours with a minimum GPA of 3.5, and must have completed one year each of general chemistry with laboratory (8 hours), organic chemistry with laboratory (8 hours), general biology with laboratory (8 hours), either genetics (4 hours) or comparative physiology (4 hours), six hours of English, and six hours of math placement. Careful scheduling is very important for students interested in this program.

CLR – Computer Literacy Requirement  
OCR – Oral Communication Requirement

GER – General Education Requirement  
UR – University Requirement

## Bachelor of Science Degree in Chemistry

- Professional Chemistry Concentration (CHEM)
- Pre-Medical/Pre-Dental Concentration (CHDM)

### Suggested Course Sequence:

<b>FRESHMAN YEAR</b>		<b>Sem. Hrs.</b>
BIOL 155 (GER)		4
CHEM 105-106 (GER), 110		8
ENGL 101, 102 (GER)		6
Freshman Seminar Course (UR)		1
HIST 101, 102 or 150, 151		6
MATH 165* (GER)		5
		30
<b>SOPHOMORE YEAR</b>		<b>Sem. Hrs.</b>
CHEM 221, 222, 226, 300, 302		13
CMPS 120		3
MATH 166		5
SPCH 101 (OCR)		3
PHYS 201, 202, 203, 204		8
		32
<b>JUNIOR YEAR</b>		<b>Sem. Hrs.</b>
CHEM 303, 304, 305, 306, 319, 327		11
ENGL 368 (GER)		3
ENGL Literature Elective (GER)		3
MATH 265		3
Concentration Courses or Electives		11
		31
<b>SENIOR YEAR</b>		<b>Sem. Hrs.</b>
Arts Elective (GER)		3
CHEM 405, 407, 412, 413, 421, 435, 437, 450		17
Social Science Electives** (GER)		6
Concentration Courses or Electives		6
		32
<b>Total Hours Required for Degree (all concentrations):</b>		<b>125</b>

\* MATH 165 is the entry-level course for this major. All prerequisites for MATH 165 must be met.

\*\* See General Education Requirements for the Baccalaureate Degree. One of which must be at the 200 level.

**NOTES:** Courses in major should be taken in sequential order. Student should obtain curriculum sheet from department.

#### <sup>1</sup>Professional Chemistry Concentration (CHEM)

CHEM Electives – 5 hours required.

CHEM 481 (3)
CHEM 436 (3)
CHEM 451 (2)
CHEM 452 (4)
CHEM 480 (3)
CHEM 490 (3)
Electives – 6 hours (300-level or above)
MATH Elective (3 hours) from
MATH 355 or 360 or 401

#### <sup>2</sup>Pre-Medical/Pre-Dental Concentration (CHDM)

BIOL 156 (4)  
 BIOL 203 (3)  
 BIOL 204 (1)  
 BIOL/CHEM Electives – 9 hours selected from the following:

BIOL 320 (4)	BIOL 440 (3)
BIOL 326 (4)	CHEM 451 (2)
BIOL 332 (4)	MATH 301 (3)
BIOL 370 (3)	

<sup>3</sup>Early Acceptance Program with Tulane Medical School requirements must be completed by the end of sophomore year

BIOL 156(4)

BIOL 320(4)

BIOL 326(4)

## **Chemistry/Pre-Optometry Non-Degree Program**

Pre-Optometry is a two-year non-degree program that prepares a student to enter a school of optometry. Each pre-optometry student will follow the first two years of the chemistry curriculum with appropriate substitutions as approved by the advisor and the head of the Department of Physical Sciences.

Most schools of optometry recommend that the student complete three or four years of undergraduate study prior to admission. The typical school of optometry prefers the student with the baccalaureate degree.