

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 MATHEMATICS AND COMPUTER SCIENCE

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 Professors: Asrabadi, Beslin (Head), B. Holmes.
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 Professors: Coordinator), L. Howell, K. White.
 Assistant Gray, Houston, I. West, Xing
 Professors:
 Instructors: Baney, L. Boudreaux, J. Chapman, Cheramie, Clapp, Courville, Dupree, Hubbell, D., Lasseigne,
 Ma, K. Smith, S. Smith, V. Smith, Soule, Watson, Zerangue.

Mathematics Program

The university awards the Bachelor of Science degree with a major in mathematics to the student who completes the curriculum listed below. The curriculum provides a sufficient number of electives to enable the student to concentrate his or her studies in pure mathematics or applied mathematics.

Minor

The minor in mathematics consists of a minimum of nine semester hours of credit in courses approved by the head of the Mathematics Department numbered above MATH 265.

CLR – Computer Literacy Requirement
 OCR – Oral Communication Requirement

GER – General Education Requirement
 UR – University Requirement

Bachelor of Science Degree in Mathematics

Suggested Course Sequence:

FRESHMAN YEAR	Sem. Hrs.
CMPS 120 (CLR)	3
ENGL 101, 102 (GER)	6
Freshman Seminar Course (UR)	1
HIST 101, 102 (GER)	6
MATH 165*, 166 (GER)	10
Natural Science Electives (GER)	6
	32
SOPHOMORE YEAR	Sem. Hrs.
ACCT 205	3
CMPS 221 or CIS 250	3
ECON 255 (GER)	3
ENGL Literature Elective (GER)	3
MATH 265, 355, 358	9
Natural Science Electives (GER)	6
Social Science Elective (GER)	3
	30

JUNIOR YEAR	Sem. Hrs.
Arts Elective (GER)	3
ENGL 368 (GER)	3
MATH 360, 401, 402	9
SPCH 101 (OCR)	3
Electives***	<u>12</u>
	30
SENIOR YEAR	Sem. Hrs.
MATH 405, 461, 481	9
MATH 499	0
MATH Electives**	6
Electives	<u>15</u>
	30
Total Hours Required for Degree:	122

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

** 300 or above approved by department.

*** Free electives provided that the requirement of 45 semester hours of courses 300 or above is met.

Computer Science Program

The university awards the degree of Bachelor of Science with a major in computer science to the student who satisfies these requirements:

- Completion of the computer science curriculum.
- Completion of the requirements for a minor as recommended by the minor department.
- Grade of C or better in each required computer science and mathematics course.

The Bachelor of Science in Computer Science degree program at Nicholls is accredited by the Computing Accreditation Commission (CAC) of the Accreditation Board for Engineering and Technology (CAC/ABET).

Minor

A minor consists of CMPS 120, 220, 221, 222, 350, and 6 additional hours to be selected from any 300- or 400-level computer science course that counts for credit toward the major in computer science. A grade of C or better is required in each computer science course.

CLR – Computer Literacy Requirement
OCR – Oral Communication Requirement

GER – General Education Requirement
UR – University Requirement

Bachelor of Science Degree in Computer Science

Suggested Course Sequence:

FRESHMAN YEAR	Sem. Hrs.
CMPS 120 (CLR), 220, 221	9
ENGL 101, 102 (GER)	6
Freshman Seminar Course (UR)	1
HIST 101, 102 (GER)	6
MATH 165*, 166 (GER)	<u>10</u>
	32
SOPHOMORE YEAR	Sem. Hrs.
CMPS 222, 312, 316, 350	12
ENGL 368 (GER)	3
MATH 265	3
Natural Science Sequence*** (GER)	8
Social Science Elective** (GER)	3
SPCH 101 (OCR)	<u>3</u>
	32
JUNIOR YEAR	Sem. Hrs.
CMPS 351, 402, 404, 406	12
CMPS Elective****	3

Foreign Language Elective	3
MATH 401, 402	6
Natural Science Electives*** (GER)	<u>4</u>
	28
SENIOR YEAR	Sem. Hrs.
Arts Elective (GER)	3
CMPS 403, 405	6
CMPS Electives****	6
ENGL Literature Elective (GER)	3
Social Science Elective** (GER)	3
Electives	<u>9</u>
	30
Total Hours Required for Degree:	122

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

** From two different disciplines. Three hours of which must be at the sophomore level or above.

*** Students must take 12 hours of Natural Science courses, completing an eight-hour sequence plus an additional 4 hours in an area other than that of the sequence. Students may select from Option 1 or Option 2 with Biology 155 being a required course: Option 1: Biology 155 (4 hours) and an eight-hour sequence in either Chemistry (105, 106, and 110) or Physics (201, 203, 202, 204); Option 2: An eight-hour Biology sequence (155 and 156) and four additional hours taken from Chemistry (105, 106, 110) or Physics (201, 203, 202, 204) or Geology (101, 102).

**** Computer Science electives to be selected from CMPS 410, 412, 415, 416, 417, 418, 420, 421, 450, 490 with no more than one course from 450, 490.