



# LEAVELL COLLEGE

AT NEW ORLEANS BAPTIST THEOLOGICAL SEMINARY

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LCGE1372-30 Contemporary Mathematics  
Spring 2021 (213)

Monday, 8:00 -10:00 pm

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### Mission Statement

*New Orleans Baptist Theological Seminary and Leavell College prepare servants to walk with Christ, proclaim His truth, and fulfill His mission.*

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### Course Description

Students will learn essential mathematical concepts including uses of mathematical modeling and logical thinking in problem solving. Selected topics will include logic and sets, the real number system, functions and their graphs, probability and statistics. *Prerequisite: None.*

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### Course Student Learning Outcomes (CSLOs)

At the conclusion of the semester, the student will be able to:

1. Distinguish between inductive and deductive reasoning.
2. Identify math concepts used in contemporary situations.
3. Classify elements of the real number line.

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### Course Texts

Smith, Karl J. *The Nature of Mathematics*. 13<sup>th</sup> edition. + webassign, 1 term (6 months), 13 edition. Boston: Cengage Learning, 2017.

All students will need to purchase the textbook through the Webassign course. Please follow the instructions provided in the Student Quick Start Guide available in the Blackboard course under the information tab.

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### Course Requirements and Grading

1. **Complete homework assignments.** 20%
2. **Five Sectional tests.** 40%

3. **Complete midterm exam. 20%**
4. **Complete comprehensive final exam. 20 %**

**COURSE GRADING**

Participation/Homework	20%
Sectional Exams	40%
Midterm	20%
Final Exam	20%

**GRADING SCALE**

A: 93 - 100
B: 85 - 92
C: 77 – 84
D: 70 – 76
F: below 70

**Course Schedule**

<b>Week</b>	<b>Week of</b>	<b>Topic</b>	<b>Textbook Reading</b>	<b>Assignment</b>
1	<b>Jan 25</b>	Introduction, Chapter 1: <i>The Nature of Problem Solving</i>	Chapter 1 (Intro & 1.1)	Pretest
2	<b>Feb 1</b>	Chapter 1 cont'd: <i>Inductive and Deductive Reasoning, Scientific Notation</i>	Chapter 1 (1.2 & 1.3)	
3	<b>Feb 8</b>	Chapter 2: <i>The Nature of Sets</i>	Chapter 2 (2.1)	<b>Test Chapt. 1</b>
4	<b>Feb 15</b>	Chapter 2 cont'd: <i>Operations, Applications, Finite and Infinite Sets</i>	Chapter 2 (2.2, 2.3, & 2.4)	
5	<b>Feb 22</b>	Chapter 3: <i>The Nature of Logic</i>	Chapter 3 (3.1 & 3.2)	<b>Test Chapt. 2</b>
6	<b>March 1</b>	Chapter 3 cont'd: <i>Operators, Nature of Proof &amp; Problem Solving</i> (3.3, 3.4 & 3.5)	Chapter 3 (3.3, 3.4 & 3.5)	
7	<b>March 8</b>	Chapter 4: <i>The Nature of Numeration Systems</i>	Chapter 4 (4.1 & 4.2)	<b>MIDTERM (Chpts. 1-3)</b>
8	March 15-19	Spring Break		
9	<b>March 22</b>	Chapter 4 cont'd: <i>Different Numeration Systems and Binary</i>	Chapter 4 (4.3 & 4.4)	

Week	Week of	Topic	Textbook Reading	Assignment
10	March 29	Chapter 5: <i>The Nature of Numbers</i>	Chapter 5 (5.1 & 5.2)	Test Chapt. 4
11	April 5	Chapter 5 cont'd: <i>Integers and Rational Numbers</i>	Chapter 5 (5.3 & 5.4)	
12	April 12	Chapter 12: <i>The Nature of Counting</i>	Chapter 12 (12.1, 12.2 12.3)	Test Chap. 5
13	April 19	Chapter 11: <i>The Nature of Financial Management</i>	Chapter 11 (11.1 & 11.2)	Test Chap. 12
14	April 26	Chapter 11 cont'd: <i>Sequences and Series</i>	Chapter 11 (11.3 & 11.4)	
15	May 3	Review		
16	May 10	Final Exam		Final Exam

#### ADDITIONAL COURSE INFORMATION

1. Attendance Policy: Leavell College follows the attendance policy as stated in the Leavell College catalog.
2. Policy for Late Submissions: All late assignments will be penalized five points for the first day and one point per day thereafter, with no assignments being accepted more than one week past the due date.
3. Plagiarism Policy: A high standard of personal integrity is expected of all Leavell College students. Copying another person's work, submitting downloaded material without proper references, submitting material without properly citing the source, submitting the same material for credit in more than one course, and committing other such forms of dishonesty are strictly forbidden. *Although anything cited in three sources is considered public domain, we require that all sources be cited.* Any infraction may result in failing the assignment and the course. Any infraction will be reported to the Dean of Leavell College for further action.
4. Classroom and Online Decorum: Each student is expected to demonstrate appropriate Christian behavior. The student is expected to interact with other students in a fashion that will promote learning and respect for the opinions of the others in the course. A spirit of Christian charity is expected at all times. Electronic devices should be used only for classroom purposes as indicated by the professor.

5. *Special Needs*: If you need accommodations for a disability, please set up a meeting with the professor for consideration of any modifications you may need.
6. *Emergency Plan*: In the event the NOBTS schedule is impacted due to a natural event, go to the seminary's website for pertinent information. Class will continue as scheduled through the Blackboard site. Please note announcements and assignments on the course's Blackboard site.
7. *Technical Assistance*: For general NOBTS technical help, go to [www.NOBTS.edu/itc/](http://www.NOBTS.edu/itc/)

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### **Selected Bibliography**

- Bullock, Gregory. *Algebra in Words: A Guide of Hints, Strategies and Simple Explanations*. Acute Books: 2014.
- Conway, J. H. *The Book of Numbers*. New York: Springer -Verlag, 1996
- Coughlin, R. *The Ascent of Mathematics*. New York: McGraw-Hill, 1984.
- Courant & Robins. *What is Mathematics?* Oxford: Oxford University Press. 1969.
- Feller, William. *Introduction to Probability Theory*. New York: Wiley, 2008.
- Freedman, David, Robert Pisani, Roger Purves, *Statistics*, 4<sup>th</sup> ed., New York: W. W. Norton & Company, 2007.
- Gelfand, Israel M. and Shen, Alexander. *Algebra*. Berlin: Birkhäuser: 2002.
- Huettenmueller, Rhonda. *Algebra DeMYSTiFieD*. 2nd ed. New York: McGraw-Hill Professional, 2010.
- Kline, M. *Mathematical Thought from Ancient to Modern Times*. New York: Oxford University Press, 1972.
- Lang, Serge. *Algebra*. 2nd ed. New York: Addison-Wesley Pub. Co., 1984.