cse371 math371 LOGIC

Professor Anita Wasilewska

SPRING 2025 SYLLABUS SLIDES

COURSE SYLLABUS

Course Text Book

Anita Wasilewska

Logics for Computer Science: Classical and Non-Classical

Springer 2018

ISBN 978-3-319-92590-5 ISBN 978-3-319-92591-2 (e-book)

Please **download** a pdf copy of the **Text Book** from the course webpage; www3.cs.stonybrook.edu/~ cse371

Print, read and study the **relevant chapters** before and after the **Lectures**. Study Examples and Problems Solutions.

You need to know them for your **Tests** and **Quizzes**.

You can get the book in **Hard cover**, or in **Electronic form**

https://www.springer.com/us/book/9783319925905

The BOOK GOALS

I wrote the **Book** with students on my mind so that they can read and study by themselves, even **before** coming to class.

For sure, it is also essential to study after the class.

The **Book** and hence the **course** progresses slowly, making sure that the pace is appropriate for somebody without previous knowledge of formal logic

The **Book** contains hundreds of examples and problems with detailed solutions to facilitate **understanding** of material and study for **Tests**

COURSE GOAL

The **main goal** of the course is to teach **intuitive** and **formal** understanding of classical and some of non- classical **logics** by teaching **Symbolic Logic** as a scientific subject.

Students will learn the **Symbolic Logic** basic notions, definitions, and the role of its the most important Theorems by exploring problems, similarities, and differences characteristic to different logics; **classical** and **non-classical**.

VIDEO LECTURES

We have a Youtube Channel: **Logic, Theory of Computation**. The first 4 Lectures are for Theory of Computation. **Logic Lectures** follow.

It contains set of VIDEOS filmed in **Stony Brook TV Studio**.We cover Chapters 1 - 7, Video Lectures cover Chapters 1 - 11. Please use them as a suplement to **course Lectures** when you study at home.

COURSE WEBPAGE

Course Webpage contains Class and Video **Lectures**

L1.

Class Lectures are more detailed and contain many examples and problems solutions you need to **study** for the tests

There are 3 - 5 Class Lectures for one **Chapter** of the book i. e. for one Video Lecture

L2. Video Lectures are created especially for Chapters Videos. Students can follow the Video Lectures, chapter by chapter, with exactly the same slides in hand that were used in the Chapters Videos

TESTS PRINCIPLES

TESTS are ”closed book” - no cell phones, no computers, clean desks, no extra papers, no any form of communication with other students.

Professor supervises all TESTS together with the course TAs

Anybody violating these rules will have to immediately **submit** the TEST to the **Professor** and leave the class

Student then will get **0pts** for the TEST and will be reported, if needed, to the **Academic Judiciary** as stated and explained the the University Academic Integrity Statement included in the Syllabus

Make -up Exams Policy

The Course Policy on **make-up exams**, is consistent with university policy as defined in the Undregraduate Bulletin https://www.stonybrook.edu/sb/bulletin/current/

Make-up exams will be given only in extenuating circumstances. For example doctor's note stating that student is ill and unfit to take the exam

Specific arrangements will be made on a case-by-case basis

TESTING

TESTS cover material that was **presented** in class before the dates of respective tests

Consult Weekly STUDY PLAN posted on the course Webpage

PRELIMINARY schedule is posted on the course webpage

Changes will be posted on Brightspace

Tests

Tests problems will be similar to exercises and problems **solved** in the Book

They also can be similar to problems included in the Class Lectures, to problems in previous Quizzes, and Tests as published on the Webpage

Our actual Tests will have a different content and cover different material depending on what we actually **cover** in class

There also may be some **challenge** problems given as extra credit

WORKLOAD

There will 2 Quizzes, Midterm, and a Final examinations

We will also have some **EQuizzes** - Extra Credit Quizzes for total of **(15 extra points)** with dates advertised as they come

The **consistency** of your efforts and work is the most important for this course

Records of students points are kept on BrightSpace

Contact course TAs for information about grading, grades changes, etc....

PRELIMINARY TESTS SCHEDULE

This is a preliminary schedule. Changes, if any, will be posted on Brightspace and the course Webpage

EQuiz 1 Thursday, February 13 - extra credit Q1, more to be advertised in class

Quiz 1 Thursday, February 27 - regular Q1

MIDTERM Thursday, March 13

Spring Break March 17 - 21

Quiz 2 Thursday, April 17 - regular Q2

Last Class Thursday, May 8

FINAL - during the Finals Period May 13 - May 21

GRADING COMPONENTS

2 Quizzes - 20pts each,40pts total

EQuizzes - Extra Credit Quizzes - 20 extra points total

Midterm - (80pts)

Final - (80pts)]

Midterm will cover material from all Lectures given in class before Midterm.

Final will cover mainly material Lectured after Midterm but there will be 1-2 questions from Midterm material.

None of grades will be curved

Final grade computation

You can earn up to 200 points + x extra points = 200+x points during the semester

The grade will be determined in the following way:

# of earned points divided by 2 = % grade

The % grade is translated into a letter grade in a standard way as described in the course Syllabus

Final grade computation

The % grade is translated into a letter grade in a standard way i.e.

100 – 95 % is A

94 – 90 is $A-$

89 – 86% is $B+$, 85 – 83 % is B, 82 – 80 % is $B-$

79 – 76 % is $C+$, 75 – 73 % is C, 72 – 70 % is $C-$

69 – 60 % is D range and

F is below 60%