

cse371 math371 LOGIC

Professor Anita Wasilewska

FAII 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 **Opts** 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 Undergraduate 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 2 **EQuizzes** - **Extra Credit Quizzes** for
total of **(10 extra points)**

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, **September 18** - extra credit EQ1

Quiz 1 Thursday, **October 6** - regular Q1

Fall Break **October 13-14**

MIDTERM Thursday, **October 23**

EQuiz 2 Thursday, **November 6** - extra credit EQ2

Quiz 2 Thursday, **November 20** - regular Q2

Last Class Thursday, **December 8**

FINAL - during the Finals Period **December 10-18**

GRADING COMPONENTS

2 Quizzes - 20pts each, 40pts total

EQuizzes - Extra Credit Quizzes - 10 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%