

CS 511 – Fall 2020 Semester

CS 511 Official Website: [Formal Methods for High-Assurance Software Engineering](#)

CS 511 Piazza Website: for all communications, announcements, and extra material

Instructor: Assaf Kfoury

Lectures: Tue, Thur, 12:30-1:45 pm

Tutorial Labs: Wedn, 2:30-3:20 pm

17 September 2020

Addendum 05

Announcements:

Homework Assignment # 02:

- Posted on Friday, Sept 11.
- Due on Friday, Sept 18, by 11:59 pm.

Submission of homework assignments:

- hand problems are submitted in a PDF file to Gradescope
- scripts are placed in your GitHub repo, accessible with links in your PDF file

Selected solutions for HW #1 posted on Piazza

(not yet, waiting for one student who was delayed for reasons beyond his control)

(Partial) Lecture Notes:

From Compactness to Completeness [2020-09-07.fCtC],
posted on *Piazza* under *Resources*.

Request (once more):

- Try to ask your questions on Piazza so that they are **visible** to everyone.
- There is no problem if you choose to ask them anonymously.
- I will respond by making my answers **visible** to everyone.

Reminder about inserting/omitting parentheses in wff's

- \neg has higher precedence than \lor and \land
- \lor and \land have higher precedence than \rightarrow
- \rightarrow is only **right-associative**, unlike \lor and \land which are **associative**

$A \rightarrow B \rightarrow C$ means $A \rightarrow (B \rightarrow C)$

if you intend to say $(A \rightarrow B) \rightarrow C$, you cannot omit the parentheses

Instructions for installing the ATP **Prover9** and the CF **Mace4**

- ◆ For Ubuntu/Linux (or, most likely also, for Debian/Linux):

```
sudo apt-get update -y  
sudo apt-get install -y prover9-mace4
```

- ◆ For other Unix-like Systems:

Click [here](#).

- ◆ For Microsoft Windows:

Click [here](#).

- ◆ There are also graphical versions for Prover9 and Mace4:

Search the Web.

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