Course Description.

This course is concerned with the development of provably correct programs. Program specifications are written using predicate logic in the form of pre- and post-conditions. Programs are written in a language for which the semantics of language constructs are defined using weakest preconditions. Program and proof are developed hand in hand with the proof leading the way. Program correctness ensures that the program terminates in a finite number of steps and meets the program specification. Efficiency issues are addressed as part of program development as well.

The subject of Development of Parallel Program design will be introduced.


References


Grading and Evaluation:

1. Class Participation: 40%.
2. Semester Exam I: 15%.
3. Semester Exam II: 15%.
4. End Semester Exam: 30%.

Attendance Policy:

1. At least 80% lecture attendance is required. More than 8 unexcused absences from lectures will ensure F grade for the course.
2. Each class attendance earns you $\frac{1}{2}$% marks.
3. Each class absence will earn you a penalty of 1% marks for the lack of class participation.