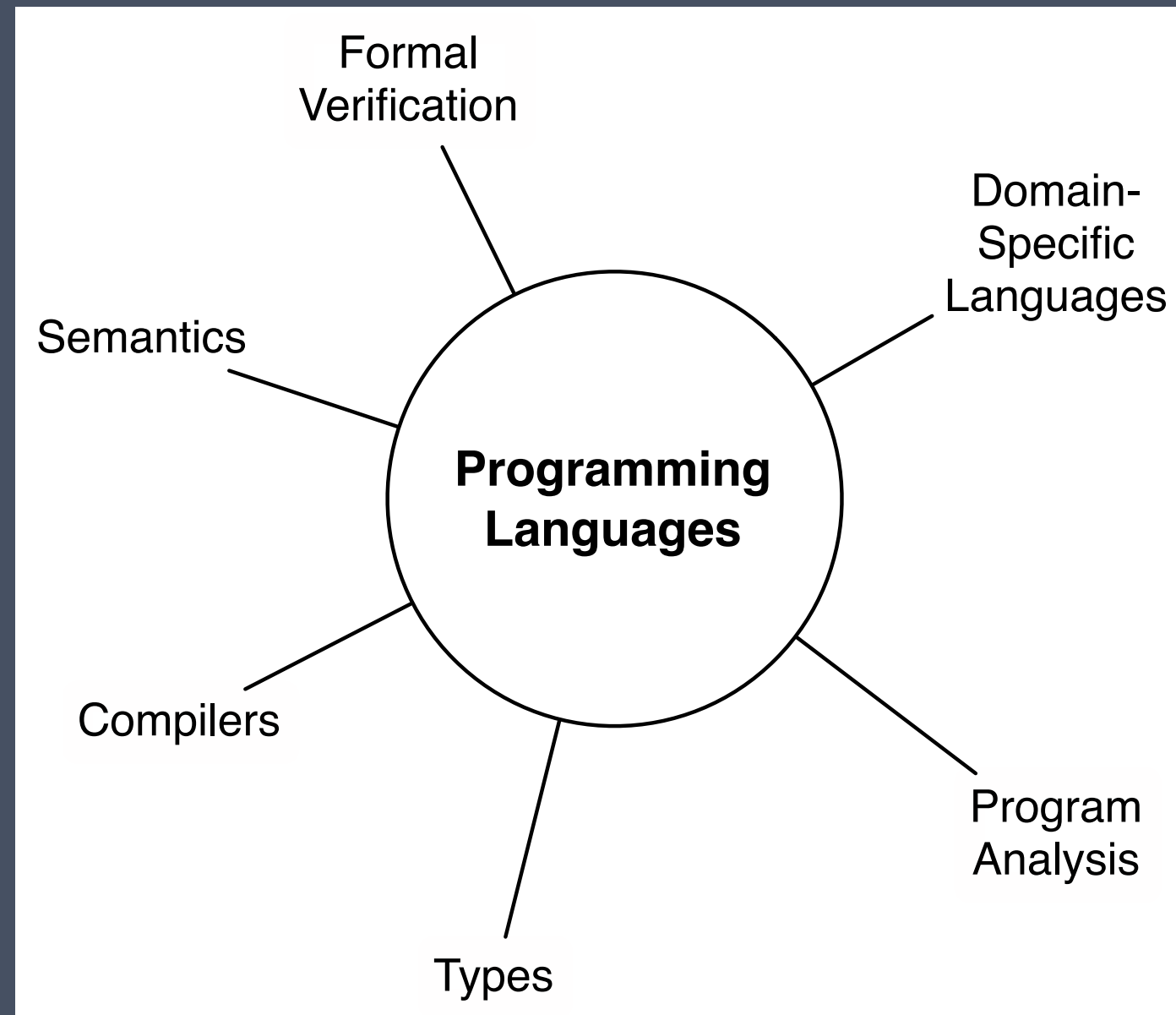


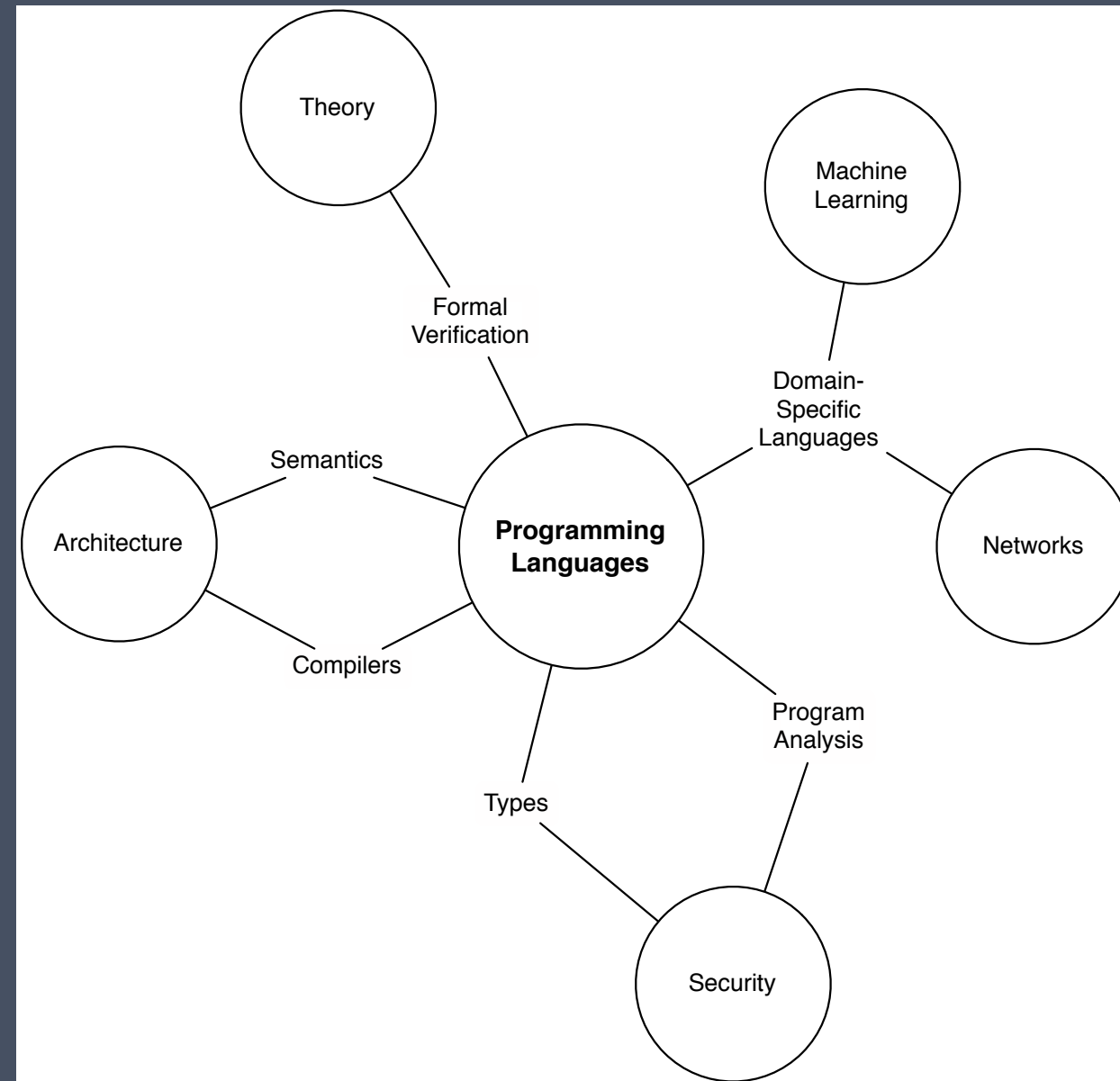
CS 6110

ADVANCED PROGRAMMING LANGUAGES

PROGRAMMING LANGUAGES!



PROGRAMMING LANGUAGES!



PROGRAMMING LANGUAGES IN 6110

FORMAL FOUNDATIONS:

- SEMANTICS: OPERATIONAL, DENOTATIONAL, AXIOMATIC
 - REASONING AND PROOFS ABOUT PROGRAMS

PRACTICE & IMPLEMENTATION:

- COMPILERS, OPTIMIZATION, RUN-TIME SYSTEMS
 - STATIC ANALYSIS

PREREQUISITES

MATH STUFF:

- BASIC SET THEORY
- WRITING RIGOROUS, FORMAL PROOFS
 - INDUCTION

COMFORT WITH FUNCTIONAL PROGRAMMING

LOGISTICS

SCHEDULE, LECTURE NOTES, LOTS OF DETAILS:

[HTTP://WWW.CS.CORNELL.EDU/COURSES/CS6110/2017SP/](http://www.cs.cornell.edu/courses/cs6110/2017sp/)

OFFICE HOURS:

- ME: MONDAY & WEDNESDAY, 11AM–NOON, GATES 411A
- CHIN ISRADISAIKUL: TUESDAY & THURSDAY, 3–4PM, GATES G11

(STARTING NEXT WEEK)

HOMEWORK

**FIVE TWO-WEEK-LONG ASSIGNMENTS
MOSTLY THEORETICAL, SOME PROGRAMMING
YOU CAN (AND SHOULD!) WORK WITH A PARTNER**

EXAMS

**PRELIM: TAKE-HOME EXAM. JUST BEFORE SPRING BREAK
FINAL: PLAIN OLD EXAM**

GRADING

PROBLEM SETS: 30%

PRELIM: 30%

FINAL: 40%

FOR HOMEWORK, YOU HAVE THREE 24-HOUR SLIP DAYS AND ONE
DROPPED SCORE.

PIAZZA

PLEASE WATCH PIAZZA! IMPORTANT STUFF WILL BE POSTED THERE.

ASK (AND ANSWER) LOTS AND LOTS OF QUESTIONS.

IN CLASS

RESPECT IS PARAMOUNT

INTERRUPT EARLY AND OFTEN WITH QUESTIONS