CS 6110
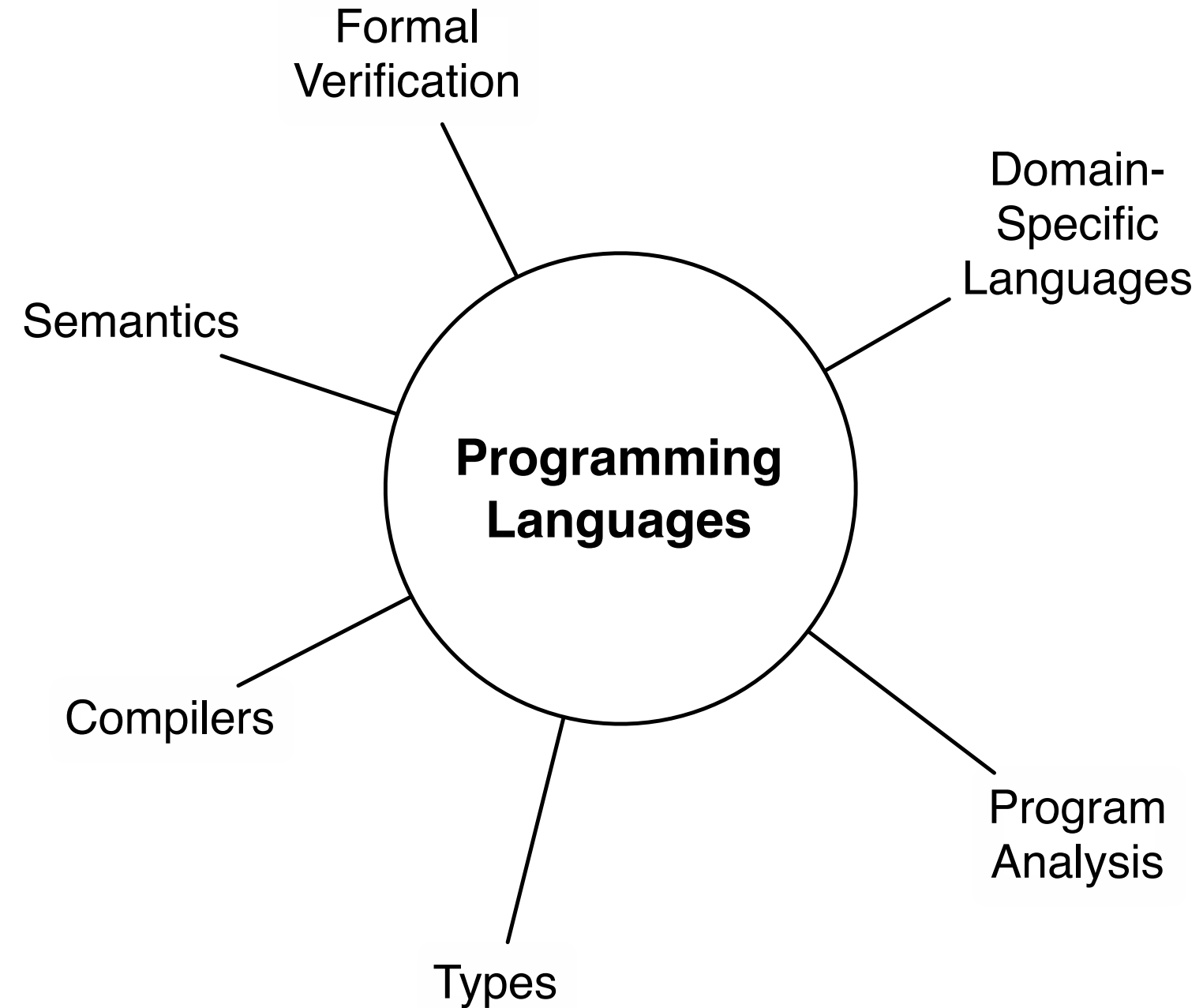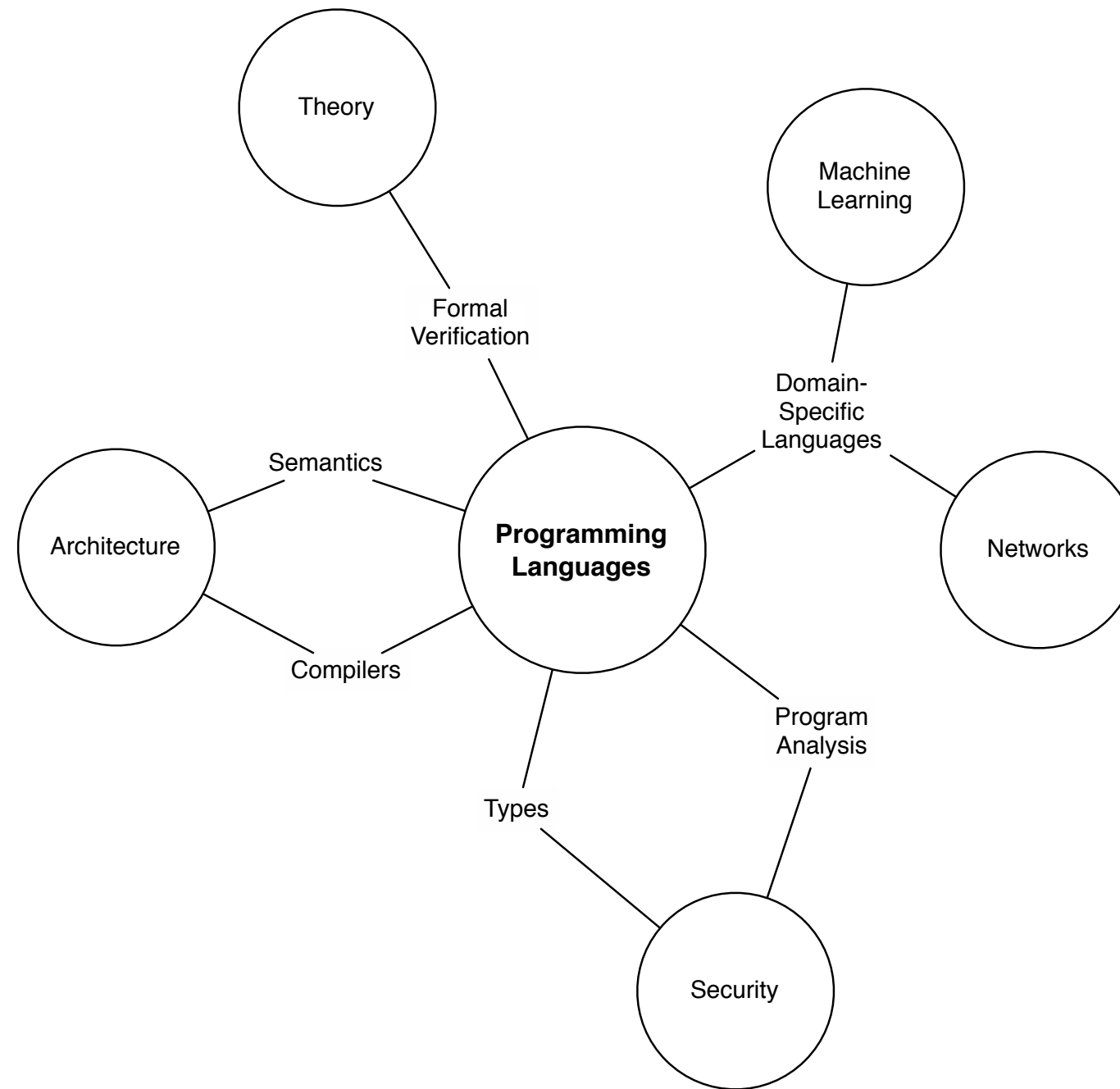
Advanced Programming
Languages

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
— Automated verification

Prerequisites

Math stuff:

— Basic set theory

— Writing rigorous, formal proofs

— Induction

Comfort with functional programming

Logistics

Schedule, lecture notes, lots of details:

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http://www.cs.cornell.edu/courses/
cs6110/2017sp/
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Office hours TBD, to start 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.