Programming Language Track

Objectives

The track is designed to prepare students to work in fields related to program understanding, analysis, manipulation and transformation. This includes run-time system engineering as well as domain specific techniques (e.g., real-time computing or web programming). They will acquire tools and techniques needed to specify and implement language-based solutions.

All major required courses, all track requirements and track selectives, and their pre-requisites, regardless of department, must be completed with a grade of C or better.

Required Courses (3)

Course	Title
CS 35200	Compilers: Principles and Practice
CS 35400	Operating Systems
CS 45600	Programming Languages

Electives (3)

Course	Title
CS 30700 or **CS 40800**	Software Engineering I Software Testing
CS 34800 or **CS 44800**	Information Systems Introduction to Relational Database Systems
CS 35300	Principles of Concurrency & Parallelism
CS 38100	Introduction to the Analysis of Algorithms
CS 42600	Computer Security
CS 48300	Introduction to the Theory of Computation
CS 56000	Reasoning About Programs

MA 38500 or **MA 45300**	Introduction to Logic Elements of Algebra I

Note: When an A or B choice is listed, only one of A and B can be used to satisfy the elective requirement.

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