CS4337 - Programming Language Paradigms

CS 4337 Programming Language Paradigms (3 semester credit hours) Principles of design and implementation of contemporary programming languages. Formal description including specification of syntax and semantics of programming languages. Language definition structures including binding, scoping, data types, control structures, parameter passing, abstraction mechanism, and run-time considerations. Design issues of different programming languages. Language-based security. Design, implement, and debug programs in various programming language paradigms. Prerequisites: (CE 2336 or CS 2336 or CS 2337) with a grade of C or better or CS 3333 and (CE 2305 or CS 2305) with a grade of C or better and (CS 2340 or SE 2340 or CE 4304 or EE 4304). (Same as CE 4337) (3-0) S