<u> </u>	3	Course Coordinator	Norman Carver				
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S		FA20					
Description the	A survey of modeling techniques and Meta languages for the formal specification of						
	the syntax and semantics of high-level programming languages.						
Textbooks							

References

Course Learning Outcomes

- To be able to read and comprehend formal definitions of programming languages
- To have a deeper understanding of the design and structure of programming languages
- To be aware of several diverse approaches to formal semantics
- To be aware of the potential applications of formal language specification, such as program verification and compiler generation

Assessment of the Contribution to Student Outcomes										
Outcome >	1	2	3	4	5	6	7			
Assessed →	X	X	X		X					

Prerequisites by Topic

CS 311.

CS 511	Formal Specification of Programming Languages	Page 2			
Major Topics Covered in the Course					
1. BNF	and its variants				
2. Attri	bute grammars				
3. Two	-level grammars				
4. Operational semantics and Vienna Definition Languages					
5. Denotational semantics					
6. Axio	ematic semantics				
7. Prog	gramming languages as metalanguages				

Latest Revision: Spring 2021