

Graduate Certificate in Computer Science: Software Design and Development	
REQUIREMENTS: 18 Credits	Credits
CS-501A: Computer Programming Essentials	3.0
CS-501B: Program Development	3.0
CS-502: Theoretical Foundations of Computer Science	3.0
CS-503: Data Structures and Algorithms	3.0
CS-505: Operating Systems Concepts	3.0
CS-509: Advanced Object-Oriented Programming and Design	3.0

**Minimum Credits for Graduate Certificate in Computer Science: Software Design and Development = 18.0**