

CERTIFICATE IN SYSTEMS SOFTWARE

Units required for Certificate: 12

Program Description

The Systems Software Certificate provides necessary background to participate in the development of low-level software for computer hardware and the software infrastructure needed by application developers. Understanding how such software operates makes students valuable additions to interdisciplinary teams where exploiting features of systems tools is important. The certificate will also prepare students to design, implement, and be effective users of systems tools such as language processors, utilities, and diagnostic tools.

Program Requirements

Code	Title	Units
CSC 151	Compiler Construction	3
CSC/CPE 159	Operating System Pragmatics	3
Select two of the following:		6
CSC/CPE 142	Advanced Computer Organization	
CSC 148	Modeling and Experimental Design	
CSC 154	Computer System Attacks and Countermeasures	
CSC 155	3D Graphics and Shader Programming	
CSC 165	Computer Game Architecture and Implementation	
Total Units		12