



College of Arts and Sciences
 Certificate in Intermediate Programming
 Check Sheet

This certificate builds on skills provided by the computer programming certificate to provide students with solid competency in object-oriented programming. Students completing this certificate will have the necessary skills to advance to team leadership positions in the programming industry. Courses required for this certificate will be offered on-campus and via E-Luminate.

Required Core Courses: (12 credits)

<u>Prefix & #</u>	<u>Title</u>	<u>Credits</u>	<u>Completed</u>
CS 161	Foundations of CS I	4	_____
CS 162	Foundations of CS II	4	_____
CS 260	Data Structures	4	_____

Additional Required Courses: (15 credits)

CS 221	C/C++ Programming	4	_____
CS 344	Systems Analysis & Design	3	_____
CS 360	Object-Orient Prog with C++	4	_____
CS 380	Software Engineering	4	_____

Total credits required: 27 credits

A minimum of 7 credits must be from EOU.

Students must complete the coursework with a “C-“or better to count towards the certificate, with an overall cumulative GPA of 2.0 for the certificate.

Student Name _____

Adviser _____

Date: _____

Date: _____