

**INFORMATION SYSTEMS TECHNOLOGY:
APPLICATION PROGRAMMING
Career Studies Certificate**

AL, LO, MA

Purpose: This career studies certificate prepares the student to design and implement traditional/legacy stand-alone and client-server applications using procedural and object-oriented development techniques.

One Year		Credits
1st Semester		
¹ ENG/SPD	Elective	3
² IT	Programming Elective	4
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ITD	132 Structured Query Language	<u>3</u>
Total		14
2nd Semester		
³ IT	Advanced Programming Elective	4
³ IT	Advanced Programming Elective	4
ITD	134 PL/SQL Programming	3
ITP	251 Systems Analysis and Design	<u>3</u>
Total		14

Total Credits for the Career Studies Certificate in Application Programming = 28.

| IT courses used for this program may not be more than 10 years old, unless approved by division dean.

¹ENG/SPD elective must be selected from the following: ENG 111, SPD 100, 110, 115, 126, 227 or 229.

²IT Programming elective must be chosen from the following: ITP 112, ITP 120, ITP 130, ITP 132, or ITP 136.

³IT Advanced Programming elective must be chosen from the following: ITP 212, ITP 220, ITP 230, ITP 232, or ITP 236.