

UC San Diego | Extension

SAS Programming

Specialized Certificate

Program Schedule

When to Begin

We recommend beginning in Fall or Spring to complete the program as efficiently as possible.

What is Required

There are six required courses in the [SAS Programming](#) certificate. You should take the program courses in the order listed in the chart below, which shows when and in what format courses are offered.

Course Title	Course No.	Units	Course Offered			
			Fall	Winter	Spring	Summer
Required Courses (All courses required and should be taken in the order listed below.)						
SAS Programming I: DATA Step and PROC Fundamentals	BIOL-40190	3.0	Online	Online	Online	Online
SAS Programming II: Advanced DATA Step Programming	CSE-41183	3.0		Online		Online
PROC SQL using SAS	CSE-41190	2.0	Online		Online	
SAS Macro Programming	CSE-41191	2.0	Online		Online	
Output Delivery System (ODS) and Data Visualization Essentials using SAS	CSE-41192	2.0	Online		Online	
SAS Programming Capstone Project	CSE-41193	3.0		Online		Online

Recommended Course Sequence

The program is designed to be taken in the following sequence:

- Quarter 1 (Fall or Spring): [SAS Programming I: DATA Step and PROC Fundamentals](#)
- Quarter 2 (Winter or Summer): [SAS Programming II: Advanced DATA Step Programming](#)
- Quarter 3 (Fall or Spring): [PROC SQL using SAS](#), [SAS Macro Programming](#), and [Output Delivery System \(ODS\) and Data Visualization Essentials using SAS](#)
- Quarter 4 (Winter or Summer): [SAS Programming Capstone](#)

Course Sequence Notes

- You *must* complete [SAS Programming I](#) and [SAS Programming II](#) before enrolling in [PROC SQL using SAS](#), [SAS Macro Programming](#), or [Output Delivery System \(ODS\) and Data Visualization Essentials using SAS](#).
- You *must* complete all prior required courses before enrolling in the [SAS Programming Capstone](#) course.

How Long It Takes

Most students complete the program in one year by taking one course per quarter for the first two quarters, then three courses the third quarter, and the final course in the fourth quarter. The program is designed to be taken in this sequence. You have up to five years to complete all requirements for the certificate.

For More Information

For program specific questions, please visit [the certificate page on our website](#) or contact the program representative at unexbio@ucsd.edu or (858) 534-9353. You can also click on the name of any of the courses above for more information on that course, including upcoming section dates and prices.

For administrative questions, please contact our Student Services Department at unex-reg@ucsd.edu or (858) 534-3400.

Last updated on 31 July 2017