



**COMPUTER SCIENCE AND ENGINEERING**  
**SCHOOL OF ENGINEERING AND COMPUTER SCIENCE**

## **CERTIFICATE IN THE FOUNDATIONS OF PROGRAMMING & ALGORITHMS**

The Certificate in the Foundations of Programming & Algorithms is an intensive 12 week online program designed for students and professionals that seek to add foundational knowledge of computing and programming to their skillset. Prior experience or coursework in computing is not required.

The program is suited towards those with non-technical backgrounds, who are looking for upskilling opportunities in computer science to change their career path. It is also suitable for current undergraduate and graduate students taking degrees that may not include programming and algorithms as part of their degree coursework, but for which those topics would provide an immediate boost of high-demand job skills. This program may also count towards prerequisite requirements for graduate study in computing fields.

For this non-credit certificate, participants will undertake 78 hours of coursework covering programming, data structures, and algorithms. Courses will be a combination of asynchronous and synchronous online classroom sessions with instructors from OU's Department of Computer Science & Engineering. Upon successful completion of the three-course set, participants will receive a certificate in the Foundations of Programming & Algorithms from Oakland University.

**COST:**                    **\$1,200 PER MODULE**  
                                 **\$3,600 FOR THE FULL CERTIFICATE**

**SCHEDULE:**            **MODULE 1 - INTRODUCTION TO PROGRAMMING**  
                                 **MARCH 16 - APRIL 13**  
                                 **TUESDAYS & THURSDAYS, 6-9PM**

**MODULE 2 - DATA STRUCTURES**  
                                 **APRIL 18 - MAY 11**  
                                 **TUESDAYS & THURSDAYS, 6-9PM**

**MODULE 3 - ALGORITHMS**  
                                 **MAY 16 - JUNE 13**  
                                 **TUESDAYS & THURSDAYS, 6-9PM**



**Courses will be a combination of asynchronous and synchronous online classroom sessions**

**CERTIFICATE ISSUED BY OAKLAND UNIVERSITY WITH SUCCESSFUL COMPLETION OF ALL  
THREE MODULES. SUCCESSFUL COMPLETION INCLUDES TEST ON EACH MODULE  
WITH 85% OR BETTER SCORE.**

**FOR MORE INFORMATION PLEASE VISIT:**  
**[cse.secs.oakland.edu/certificates](https://cse.secs.oakland.edu/certificates)**