

**REQUIREMENTS FOR THE UNDERGRADUATE CERTIFICATE**  
**GALLOGLY COLLEGE OF ENGINEERING**  
**THE UNIVERSITY OF OKLAHOMA**

Academic Year
For Students Entering the Oklahoma State System for Higher Education Summer 2024 through Spring 2025

General Requirements
Minimum Total Credit Hours ..... 15

Program
Data Science and Analytics T103 Undergraduate Certificate

**Minimum Total Credit Hours: 15**

**Program Code: T103**

Students must be enrolled as undergraduates in the Gallogly College of Engineering or the Mewbourne College of Earth and Energy. All courses counted toward the certificate must be completed with a C or better.

Code	Title	Credit Hours
<b>Required Courses</b>		
Choose one of the following:		3-4
C S 1213	Programming for Non-Majors with Python	
C S 1313	Programming for Non-Majors with C	
C S 1323	Introduction to Computer Programming for Programmers	
C S 1324	Introduction to Computer Programming for Non-Programmers	
<b>Program Core</b>		
DSA 3013	Machine Learning for Data Science	3
DSA 3023	Big Data Engineering	3
DSA 4003	Applied Data Science	3
<b>Program Electives</b>		
Choose three hours of approved elective(s) from list of courses maintained by Program in Data Science and Analytics		3
<b>Total Credit Hours</b>		<b>15</b>

More information in the catalog: (<http://ou-public.courseleaf.com/gallogly-engineering/program-data-science-analytics/data-science-analytics-undergraduate-certificate/>).