

ADVANCED ANALYTICAL TECHNIQUES FOR LINGUISTIC DATA, UNDERGRADUATE CERTIFICATE

The Certificate in Advanced Analytic Techniques for Linguistic Data is designed to develop student competencies in language and its computational applications. Anchored by coursework in AI literacy and foundational linguistics, the program equips students with tools for analyzing language structure, meaning, and use in both human and machine contexts. Students will gain technical skills by completing a course in programming or software engineering, and develop critical skills for evaluating the successes and failures of language technologies.

Eligibility

The certificate is open to:

- UWM undergraduate students.
- Community members, who can apply for the certificate as a UWM Special Student at the undergraduate level.

Requirements

To obtain the certificate, students must complete at least 12 credits in courses approved for the Advanced Analytical Techniques for Linguistic Data Certificate, with at least 9 credits taken in residence at UWM. Students must earn a cumulative 2.5 GPA in all certificate courses, including transfer work. Courses for the certificate may not be taken on a credit/no credit basis. The certificate requirements are as follows:

Code	Title	Credits
Required Courses		
LINGUIS 105	Linguistic Approaches to AI Literacy	3
LINGUIS 350	Introduction to Linguistics	3
Choose one of the following:		3
COMPSCI 202	Introductory Programming Using Python	
COMPSCI 361	Introduction to Software Engineering	
Choose one of the following:		3
LINGUIS 355	Language Behavior of AI Models	
COMPSCI 423	Introduction to Natural Language Processing	
Total Credits		12