Hyperscale Computing

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The certificate in Hyperscale Computing provides comprehensive technical knowledge and project-driven experience in big data architectures, cloud technologies, parallel computing, and advanced database systems for designing and implementing scalable solutions across distributed environments.

Prerequisites

Applicants should have a bachelor's degree from an accredited institution in a discipline related to computing (e.g., Computer Science, Computer Engineering, Information Sciences, or Information Technology). Applicants with a degree in a STEM discipline and relevant professional experience will also be considered.

Related MS programs

All courses within this Certificate program can be applied toward the requirements of the MS in Computer Science (https://cs.njit.edu/ms-computer-science/) program (MS-CS). *The Certificate can be earned alongside the MS-CS degree.*

Students who achieve a GPA of at least 3.0 in this Certificate are assured admission into MS programs (https://computing.njit.edu/graduate-degrees/) offered by the Ying Wu College of Computing. Students are encouraged to consult the academic catalogs (https://catalog.njit.edu/graduate/computing-sciences/#masterstext) to determine which courses from this certificate apply towards MS degrees other than MS-CS. Current students may also reach out to YWCC advisors (https://computing.njit.edu/academic-advisors-graduate/) for additional information.

Degree Requirements

The Graduate Certificate in Cloud Scale Computing can be completed by taking four courses (12 credits). The requirements must be satisfied as indicated in the following Course List.

Code	Title	Credits
Core Courses		
Select at least three of the following:		
CS/DS 644	Introduction to Big Data	
CS 643	Cloud Computing	
CS 632	Advanced Database System Design	
DS 642	Applications of Parallel Computing	
Elective Courses		
Select at most one of the following:		
IS 665	Data Analytics for Info System	
IS 688	Web Mining	
CS 634	Data Mining	