

Graduate Certificate in Data Engineering for Analytics

The Data Engineering for Analytics Graduate Certificate prepares students for working as a Data Engineer or Information Technology Officer responsible for architecture, implementation, monitoring of data pipelines, assess requirements, application of relevant techniques to create robust data solutions, oversight of the development of new information systems, plan, design, and deployment of an enterprise virtual infrastructure. Students master the following skill set essential to this industry role:

- Programming skills
- Data Management
- Knowledge of software lifecycle methodologies
- Programming and database skills

The Graduate Certificate in Data Engineering for Analytics will be awarded upon successful completion of the 9-credit curriculum below. The courses are not listed in sequential order. All course work should be completed within two years of starting the certificate program. Students should e-mail questions to EngHelp@psu.edu.

9-Credit Required Curriculum			
Course #	Course Title	Semester Completed	Grade
DAAN 822	Data Collection and Cleaning (Prereq: STAT 500)		
DAAN 825	Large-Scale Database and Warehouse		
DAAN 826	Large-Scale Databases for Real-Time Analytics (Prereq: DAAN 825)		

Note: Students must maintain a minimum grade point average of 3.0 (B) throughout the program. Courses may be applied to master's programs if admitted as a degree-seeking student. If degree-seeking, you must formally apply for degree admission. Up to 15 credits earned may be transferred to a master's degree, subject to restrictions outlined in [GCAC-309 Transfer Credit](#). Completing this certificate does not guarantee admission to a degree program. To be awarded the graduate certificate, students must successfully complete 9 credits of course work. Students must complete each course with a grade of C or better, and an overall grade-point average of 3.0 in the certificate courses.

Questions & Advising - Students should contact EngHelp@psu.edu with any questions.

After successfully completing the required course work, please submit a Graduate Certificate Completion Form found at <http://greatvalley.psu.edu/form/graduate-certificate-completion-form>.