



Graduate Certificate in Quantitative Business Essentials Required and Elective Courses

The Graduate Certificate in Quantitative Business Essentials provides students with the knowledge and skills necessary to become more efficient and effective managers and decision-makers. For students without a formal business education, this program equips them with fundamental concepts in data-driven decision making, accounting, finance, and supply chain management. For students with some business background, such as marketing, the program offers an excellent opportunity to upgrade their skills with essential tools of business. The program emphasizes the role of the decision maker who is in a position of evaluating alternatives to make a sound and profitable business choice. Upon completion, students will be conversant in utilizing appropriate statistical techniques and interpreting reports for various business scenarios, be able to assess the financial standing of a company from its financial statements, calculate and evaluate the cost of capital for a project, evaluate the risk and return trade-off in various business decisions, and optimize their supply chain and logistics operations. These skills can be applied to any current business or to assess the feasibility of a proposed start-up.

The Graduate Certificate in Quantitative Business Essentials 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 three years of starting the certificate program. Students should e-mail questions to ManagementHelp@psu.edu.

6-Credit Required Curriculum			
Course #	Course Titles	Typically Offered	Sem/Grade
BUS 510	Business Analytics and Decision Modeling	Fall & Spring	
3-Credit Elective Curriculum (See Below)			
Course #	Course Title		Sem/Grade

Program Electives

3-Credit Electives (<i>Choose 1 course from the following list</i>)		
Course #	Course Title	Typically Offered
BA 810	Supply Chain and Operations Management (<i>Pre-req BUSAD 801</i>)	Fall & Spring
MBADM 820	Financial Management (<i>Pre-req BUSAD 801 and ACCTG 800</i>)	Fall & Spring
ACCTG 800	Financial and Managerial Accounting	Fall & Spring
BUSAD 801	Statistical Analysis for Managerial Decision Making	Fall & Spring

See our [Course Descriptions](#) page for additional course information.

NOTE: Students must maintain a minimum grade point average of 3.0 (B) throughout the program. Courses may be applied to Great Valley Master's programs if admitted as a degree-seeking student. If degree-seeking, you must formally apply for degree admission: completing this certificate does not guarantee admission to the [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 their assigned faculty advisors with any questions or for advice on course selection. After successfully completing the required course work, please submit a Graduate Certificate Completion Form at <http://greatvalley.psu.edu/form/graduate-certificate-completion-form>.