

Class of 2024 Graduation Requirements

Certificate in Bioscience Management (CBM)

This program is designed for current PhD students, Postdoctoral Scientists, and early career industry professionals. The Certificate in Bioscience Management program requires completion of a total of 9.0 units that consists of the following required bioscience business courses.

Program Requirements

Courses	Credits
BUS 5000 Introduction to Bioscience Industries	3.0
BUS 5100 Financial Accounting	1.5
BUS 5110 Corporate Finance	3.0
BUS 5300 Competitive Strategy	1.5
Subtotal	9.0

Courses in this program are offered on campus and online with minimum enrollment.

BUS 5000: Introduction to Bioscience Industries (3.0 credits) The course will introduce students to industry dynamics within the bioscience industries, with a particular emphasis on commercialization dynamics and entrepreneurship. We will examine industry dynamics within different segments of the life science industries, such as therapeutics, diagnostics, and medical devices. Students will learn to evaluate common business models employed by life science firms, and will learn how to employ a variety of analytical tools used to assess the attractiveness of a variety of life science marketplaces. Common tools used for market research, such as survey methods and qualitative interview based techniques, will be introduced. The course will introduce these topics to students through case studies of bioscience firms.

BUS 5100: Financial Accounting (1.5 credits) This course is to provide students with the fundamentals needed to identify, interpret and analyze most common financial statements. The course approaches financial accounting from the perspective of data users (e.g., stock analysts, investors, financial managers) and not data providers (e.g., accountants, auditors, corporate controllers). Therefore, while giving an overview of the accounting processes where financial statement information originates, the course focuses on using the reported financial accounting information to evaluate company performance and financial health.

BUS 5110 Corporate Finance (3.0 credits) This course will allow students to develop a basic understanding of financial decision making. Students will be exposed to the underlying framework of corporate finance including valuation, market efficiency and portfolio theory. The course will survey a set of special topics that includes early venture financing and IPO's.

BUS 5300 : Competitive Strategy (1.5 credits) This course focuses on how firms can create and sustain advantages in highly competitive business environments. We will learn analytical frameworks and techniques for evaluating business situations and developing strategies to improve organizational performance. Students will adopt the perspective of a general manager (e.g., of a business unit, a plant, a region, a division, a product line, or an entire company) focused on long-term profitability. We will answer questions typically addressed by senior corporate executives. You will be prepared to anticipate the most likely concerns of senior executives who will be your clients or who will supervise your work. To achieve this overarching objective, this course will include lectures, case discussions, and group presentations. While lectures aim to elaborate on key theoretical models and frameworks, case discussions will provide hands-on experiences on how business decisions are made in real life. We will discuss a wide range of companies and industries, with an emphasis on the biotech and pharmaceutical industries.