**College/School Name:** Katz School

**Department/Program Name:** Biotechnology Management and Entrepreneurship

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**I.          Department/Program Mission Statement**

The mission of the MS in Biotechnology Management and Entrepreneurship program is to prepare and graduate students with professional competencies in the scientific and technological, clinical, regulatory, and business areas that support the management and commercialization of biotechnology products and services that will make them highly competitive in the marketplace.

**II. Department/Program Student Learning Goals**

Upon completion of the MS in Biotechnology Management and Entrepreneurship, students will be able to:

1. Develop a foundational scientific and technical grounding in biotechnology for managing and commercializing biotechnology products and services
2. Explain the foundational and key concepts underlying the science and business of biotechnology
3. Analyze biotechnology case studies using relevant science and business concepts
4. Develop an operational knowledge of the business, legal, regulatory, and ethical aspects of the field for managing and commercializing biotechnology products and services
5. Utilize the knowledge and skills required to work effectively with the various stakeholders across the biotechnology ecosystem
6. Develop critical thinking and problem solving skills
7. Use a variety of effective and efficient communication skills to in the study of the field

**III. Department/Program Student Learning Objectives:**

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| **Department/Program Goal** | **Objectives** |
| 1. Develop a foundational scientific and technical grounding in biotechnology for managing and commercializing biotechnology products and services | 1. Students will be able to appreciate the science behind the growth of biotechnology 2. Students will be able to demonstrate how a product should be managed 3. Students will be able to conceive of a hypothetical product and delineate its commercialization path |
| 2. Explain the foundational and key concepts underlying the science and business of biotechnology | 1. Students will be able to communicate scientific discoveries 2. Students will be able to elucidate the concepts to launch a biotechnology business 3. Students will be able to identify and clearly support ideas based on scientific merit |
| 3. Analyze biotechnology case studies using relevant science and business concepts | 1. Students will be able to apply accurate and relevant scientific concepts to case study analysis 2. Students will be able to apply accurate and relevant business concepts to case study analysis 3. Students will be able to analyze case studies based on sound concepts |
| 4. Develop an operational knowledge of the business, legal, regulatory, and ethical aspects of the field for managing and commercializing biotechnology products and services | 1. Students will be able to demonstrate the process by which a product is regulated 2. Students will be able to employ ethical practices to evaluate a scientific discovery 3. Students will be able to illustrate understanding of legal and business issues surrounding biotech products |
| 5. Utilize the knowledge and skills required to work effectively with the various stakeholders across the biotechnology ecosystem | 1. Students will be able to work collaboratively with each other on group projects 2. Students will be able to work with companies to complete specific projects for their capstone course 3. Students will be able to network with biotechnology professionals/guest speakers |
| 1. Develop critical thinking and problem solving skills | 1. Students will be able to analyze case studies to arrive at logical conclusions 2. Students will be able to recommend appropriate solutions based on information provided 3. Apply critical thinking and problem solving skills to projects |
| 1. Use a variety of effective and efficient communication skills to in the study of the field | 1. Students will be able to communicate clearly using written media 2. Students will be able to present projects orally in a logical and coherent manner 3. Students will be able to describe concepts in a clear manner both verbally and in writing |