

生物醫學科技特論 學生期末報告建議內容

Recommended Contents for the Student Final Report for the Special Topic in Biomedical Science and Technology (Capstone Course)

主題：指導教授與研究室探索報告

Topic: Faculty Advisor and Research Laboratory Exploration Report

字數：約 2 頁 A4，3,000 字以內

Length: Approximately 2 A4 pages, within 3,000 words.

學生於確定專題指導教授後，利用期末前一個月時間，主動了解指導教授研究方向、實驗室特色及未來專題規劃，完成書面報告。

After confirming their faculty advisor for the Capstone Course (or Special Topic in Biomedical Science and Technology), students are expected to spend the month before the end of the semester proactively learning about their faculty advisor's research areas, the characteristics of the laboratory, and the preliminary direction of their future research project, and complete a written report.

一、指導教授與研究室介紹

I. Introduction to the Faculty Advisor and Research Laboratory

(一)指導教授學術背景與研究領域簡介：學經歷簡介、主要研究方向、近年重要研究主題。

1. Faculty advisor's academic background and research areas: Academic and professional background, Major research areas, and Significant research topics in recent years.

(二)實驗室（研究團隊）介紹：實驗室名稱、研究主軸、主要研究技術或平台、實驗室目前執行之研究計畫或代表性研究成果。

2. Introduction to the laboratory (research team): Laboratory name, Main research focus, Major research techniques or platforms, and Ongoing research projects or representative research achievements.

二、研究方向與個人興趣連結

II. Connecting the Research Direction with Personal Interests

(一)我對該實驗室研究方向的理解：該研究領域欲解決的重要科或醫學問題、研究方法與生物醫學科技之關聯。

1. My understanding of the laboratory's research direction: Discuss about the important scientific or medical problems addressed by this research field, and explain how the research methods are related to biomedical science and technology.

(二)選擇指導教授之原因：對哪些主題感興趣、與自身學習背景或未來規劃的連結。

2. Reasons for choosing this faculty advisor: Explain which research topics interest you, and how these research topics connect with your academic background or future career plans.

三、實驗室參訪與交流心得(參考)

III. Reflections on Laboratory Visits and Interactions (Reference)

學生須主動與指導教授或實驗室成員交流，了解：

Students are encouraged to communicate proactively with their faculty advisor and laboratory members to learn about the following aspects:

(一)實驗室研究文化與運作方式：實驗室日常運作模式、研究討論(meeting)方式、學長姊指導制度。

1. Laboratory culture and operation: Daily laboratory operation, research meeting format, and mentoring system provided by senior laboratory members.

(二)與實驗室成員交流內容：目前參與研究主題、實驗室常用技術或儀器、大學生專題生通常參與之工作。

2. Topics discussed with laboratory members: Current research projects in the laboratory, common experimental techniques or instruments used, and typical responsibilities of undergraduate research students.

(三)個人參訪心得與收穫

3. Personal reflections and takeaways.

四、專題研究規劃初步構想

IV. Preliminary Plan for the Research Project

參考研究生選擇指導教授時的準備方式，提出：

Drawing on the preparation process commonly used when graduate students select a faculty advisor, propose your preliminary ideas for your Capstone research project, include:

(一)預計參與之研究方向

1. The research direction you plan to participate in.

(二)想學習的實驗技術或研究能力

2. Experimental techniques or research skills you hope to learn.

(三)目前已具備能力與需要加強之處

3. Your current strengths and the areas you need to improve.

(四)專題期間預計完成之目標

4. Goals you expect to accomplish during the Capstone project period.

(可為初步構想，不要求完整研究計畫。)

(This section is intended as a preliminary plan and does not require a complete research proposal.)