




Total Course Credits \_\_\_\_\_ Total Design Credits \_\_\_\_\_

**III. BIOLOGICAL ENGINEERING GRADUATE COURSEWORK (Sum of hours under III.a and III.b must be at least 30)**

a. Core courses (minimum of 13 hours coursework)

<b>Core Courses</b> (minimum of 16 hours)					
Course	Subject (Credit hours)	Design	Team-work	Engr Topics	Grade
BENG 5103**	ADVANCED INSTRUMENTATION (3)				
BENG 5703**	DESIGN AND ANALYSIS OF EXP FOR ENGR RESEARCH				
BENG 5933 /BENG5203**	MODELING XXXXX				
BENG 5801*	Graduate Seminar (1)				
XXXX 5XXX	Advanced Science Course*** (3)				
XXXX 5XXX	Advanced Science Course*** (3)				
Total Credit Hrs _____		Total Design Hrs _____		Total Teamwork Hrs _____	
		Total Engr. Topics Hrs _____			

\*Required

\*\*Choose two of the three.

\*\*\*To be selected from the courses approved by the student's graduate advisory committee

b. Specialization (minimum of 14 hours of which 6 can be thesis hours. A minimum of six hours of course work must have an engineering prefix, i.e. BENG, CENG, ELEG, CHEG, CVEG, INEG, MEEG )

**Students must select one of the following areas:**  
**Bioresource Engineering**  
**Ecological Engineering**  
**Biotechnology Engineering**  
**All courses must be approved by the student's graduate advisory committee.**

Course	Subject (Credit hours)	Design	Teamwork	Grade

**TOTAL HOURS OF ENGINEERING TOPICS**

(Basic Engineering [I.d.] +Breadth [II] + Graduate Engineering Courses [III])  
(Minimum course work of 48 hours of engineering topics required)

**TOTAL HOURS OF GRADUATE COURSE WORK**

(Must be at least 30)

**TOTAL HOURS OF 5000 LEVEL OR ABOVE BENG  
COURSE WORK** (Must be at least 10)

**TOTAL HOURS AT 5000 LEVEL OR ABOVE**

(Must be at least 12 excluding thesis hours)

**Thesis option** – Thesis Title: \_\_\_\_\_

Thesis Approved \_\_\_\_\_ (Thesis advisor)

Journal Manuscript Approved \_\_\_\_\_ (Thesis Advisor)

**Non-Thesis option** – Master's Report title: \_\_\_\_\_

Report approved: \_\_\_\_\_ (Graduate advisor)

**Approved for degree:** \_\_\_\_\_

Chair of Biological Engineering Studies