Instructions for Completing Your Bioengineering Study Plan

- Every student must take 44 units to complete their degree course requirements (MS/PhD), which includes three BE 299 courses, one BE 495 course, and nine field specific courses. The nine field specific courses must be four unit 200-level courses. You may substitute one 100-level course if necessary. If you are on the MS thesis plan, you must take eight units of BE 598, leaving you seven field specific courses to take.

- Students are encouraged to meet with their Field Advisor soon after matriculating at UCLA to outline a satisfactory course of study. Once the study plan has been approved by the Field Advisor and submitted to the Department, any changes to it will require approval by the Field Advisor and submitting a new form to the Department. There is no limit on the number of times a Study Plan can be approved and submitted.

- Submit the form on the following page to your Field Adviser within the first two weeks of the first quarter of enrollment. Please note that courses taken must be approved or pre-approved by the field advisor in order to count towards your degree requirement. Please turn in the form to the BE Graduate Advisor early to avoid any problems that could delay or prevent your graduation. Students are encouraged to re-evaluate their Study Plan at the beginning of each quarter.

- All PhD students are required to maintain a 3.25 overall GPA. All MS students are required to maintain a 3.0 overall GPA.

- Please note that Lower Division courses (i.e. two digit courses 1-99) do not fulfill any requirement for your degree. If you plan to take lower division undergraduate courses that do not satisfy your course requirement, please choose the “Satisfactory/Unsatisfactory” grading option, which will not affect your overall grade point average.

- All students must enroll in 12 units every quarter. If you have completed your coursework, you will need to enroll in 500-level courses to meet the 12 unit minimum. Please ask the BE graduate advisor for details.

# STUDY PLAN FOR THE MS/PHD DEGREE IN BIOENGINEERING – Fall 2016

Name: Date: / /

## MEDICAL IMAGING INFORMATICS (MII)

**REMEDIAL COURSES:**
For students without previous computing or programming experience, Mathematics PIC20A and 20B or Computer Science 31 and 32 may be substituted for BE 223A and BE 223B respectively.

**GROUP I: CORE COURSES ON GENERAL CONCEPTS**
All courses in this group are required for graduation:

| COURSE # AND QTR OFFERED | QTR/YR | COURSE # AND QTR OFFERED | QTR/YR |
|---|---|---|---|
| BE 220 (2 units) FALL | | *BE 224B (4 units) SPRING | |
| *BE 221 (4 units) ***or*** | | *BE M226 (4 units) SPRING | |
| BE C202 (4un) Winter ***and*** BE C203 (4un) Spring | | BE 495 (2 units) FALL | |
| BE 223A (4 units) FALL | | BE 299 (2 units) FALL | |
| *BE M227 (4 units) FALL | | BE 299 (2 units) WINTER | |
| BE 223B (4 units) WINTER | | BE 299 (2 units) SPRING | |
| *BE M228 (4 units) WINTER | | BE 598 (4 to 8 units) for the Thesis Plan ***or*** | |
| BE 223C (4 units) SPRING | | BE 597A (2 units) for the Comprehensive Plan | |

**Asterisks (*) indicate examinable courses for PhD preliminary examinations: 4 of the 6 courses are chosen for written examination.**

**GROUP II: SUBFIELD SPECIFIC COURSES - OPTIONAL ELECTIVE COURSES GROUPED BY AREA IN THE FIELD OF MII:**

| COURSE # AND QTR OFFERED | QTR/YR | COURSE # AND QTR OFFERED | QTR/YR | COURSE # AND QTR OFFERED | QTR/YR |
|---|---|---|---|---|---|
| **Information networks and data access in the medical environment** | | LING 218 (4 units) WINTER | | ELEC ENGR M217 (4 units) SPRING | |
| COM SCI 241A (4 units) FALL | | LING 228 (4 units) WINTER | | NEUROSCI CM272 (4 units) SPRING | |
| COM SCI 244A (4 units) FALL | | INF STD 277 (4units) SPRING | | **Probabilistic modeling and visualization of medical data** | |
| COM SCI 246 (4 units) FALL | | COMP SCI 263A (4units) SPRING | | BIOSTAT 213 (4units) FALL | |
| COM SCI 240A (4 units) WINTER | | COMP SCI 263B (4units) SPRING | | BIOSTAT M234 (4units) FALL | |
| COM SCI 217A (4 units) WINTER | | **Computer understanding of images** | | COM SCI 262B (4 units) FALL | |
| COM SCI 245A (4 units) SPRING | | BMED PHY 210 (4 units) FALL | | COM SCI M262C (4 units) FALL | |
| ELEC ENGR 211A (4 units) SPRING | | COM SCI 268 (4 units) FALL | | COM SCI 265A (4 units) FALL | |
| **Computer understanding of text and medical information retrieval** | | COM SCI 276B (4 units) FALL | | INF STD 272 (4 units) WINTER | |
| COM SCI M276A (4 units) FALL | | ELEC ENGR 211A (4 units) FALL | | COM SCI 262A (4 units) WINTER | |
| INF STD 246 (4 units) FALL | | BMED PHY 214 (4 units) WINTER | | BIOSTATS 276 (4 units) WINTER | |
| LING 232 (5 units) FALL | | ELEC ENGR 211B (4 units) WINTER | | COM SCI 241B (4 units) SPRING | |

**GROUP III: ETHICS COURSES (One of the following):**

| COURSE # AND QTR OFFERED | QTR/YR | COURSE # AND QTR OFFERED | QTR/YR | COURSE # AND QTR OFFERED | QTR/YR |
|---|---|---|---|---|---|
| BE 165EW (4 units) WINTER | | MIMG C134 (2 units) SPRING | | NS 207 (2 units) SPRING | |
| BIOMATH M261 (2 units) FALL | | | | | |

**Signature of Prof. Alex Bui, MII Field Adviser** **Date**

**Signature BE Department Chair** **Date**