

**MS MDDE  
MEDICAL DEVICE DIAGNOSTIC ENGR.  
COURSE PLAN (EFFECTIVE FALL 2008)**

Name: \_\_\_\_\_

Track: \_\_\_\_\_

|   | <b>REQUIRED COURSES (19 UNITS)</b>                   | <b>UNITS</b> | <b>STATUS</b> | <b>SCHEDULE</b>                        |
|---|--|--------------|---------------|--|
| BME 501   | Advanced Topics in Biomedical Systems <b>OR</b>      |              |               | AVAILABLE FALL & SPRING                |
| BME 502   | Advanced Studies of the Nervous System               | 4            |               | AVAILABLE FALL ONLY                    |
| BME 513   | Signal and Systems Analysis                          | 3            |               | AVAILABLE SPRING ONLY                  |
| BME 650   | Biomedical Measurement and Instrumentation           | 3            |               | AVAILABLE SPRING ONLY                  |
| MPTX 511  | Introduction to Medical Product Regulation <b>OR</b> |              |               | AVAILABLE SUMMER & FALL                |
| BME 416   | Development and Regulation of Medical Products       | 3            |               | AVAILABLE SPRING ONLY                  |
| MPTX 515  | Quality Systems and Standards <b>OR</b>              |              |               | AVAILABLE YEAR-ROUND                   |
| ISE 527   | Quality Management for Engineers                     | 3            |               | AVAILABLE FALL & SPRING                |
| ISE 545   | Technology Development and Implementation            | 3            |               | AVAILABLE FALL (summer varies)         |
| <b>TECHNICAL ELECTIVE (3 UNITS)</b>                           |  |              |               |  |
|   |  | <b>3</b>     |               | TBA                                    |
| <b>REGULATION TRACK (complete 6 units from ONE track):</b>    |  |              |               |  |
| MPTX 513  | Regulation of Medical Devices and Diagnostics        | 3            |               | AVAILABLE SUMMER & FALL                |
| RSCI 527  | Medical Product Safety                               | 3            |               | ASK PROGRAM ADVISOR                    |
| <b>MEDICAL TECHNOLOGY &amp; DEVICE SCIENCE TRACKS</b>         |  |              |               |  |
| BME 535   | Ultrasonic Imaging                                   | 3            |               | AVAILABLE SPRING ONLY                  |
| BME 551   | Introduction to bio-MEMS and Nanotechnology          | 3            |               | AVAILABLE SPRING ONLY                  |
| BME 552   | Neural Implant Engineering                           | 3            |               | AVAILABLE SPRING ONLY                  |
| BME 620*  | Applied Electrophysiology                            | 4            |               | AVAILABLE FALL ONLY; not a DEN class   |
| <b>PRODUCT DEVELOPMENT TRACK</b>                              |  |              |               |  |
| ISE 515   | Engineering Project Management                       | 3            |               | AVAILABLE YEAR-ROUND                   |
| ISE 555   | Invention and Technology Development                 | 3            |               | AVAILABLE SPRING ONLY, not a DEN class |
| <b>TOTAL UNITS REQUIRED: 28 (*29 units if taking BME 620)</b> |  |              |               |  |

\*\*Approved tech electives: AME 503, BME 511, BME 535, BME 551, ISE 508, ISE 544, MPTX 517, RSCI 528 \* courses listed in alternate tracks.  
Other courses may be applicable. See Graduate Advisor for approval.