### Northwestern University
**McCormick School of Engineering and Applied Science**
**Medical Engineering Area of Specialization Form**

To be used by students following the Catalog year 2006 degree requirements.

All Medical Engineering majors must complete this form by the end of their junior year of study. If you change your specialization, a new form must be submitted. Please check the specialization you expect to follow. If you are not taking all of the courses listed under the specialization, please list the original course or courses to be taken and the course you wish to substitute on the lines below.

Name ___________________________ Student ID ___________________ Year of Study _________ Today’s Date ________

#### I. BASIC ENGINEERING: Please list the Basic Engineering Courses you are using for your degree:

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#### II. CORE COURSES FOR SPECIALIZATION (IF APPLICABLE):

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#### III. SPECIALIZATION COURSES: Check one and circle the courses you intend to use toward your Specialization

**Computer Applications**
- Under Basic Engineering: EECS 202 and 203
- Specialization Courses: EECS 205; 303; Bmd_Eng 320; 325
  - Take one of the following pairs of classes
    - EECS 346/347; 361/362; 391/392

**Electronic Instrumentation**
- Under Basic Engineering: EECS 202; EECS 203
- Specialization Courses: EECS 221; 223; 225
  - One of the following: Bmd_Eng 320 or EECS 222
  - Two of EECS 230; Bmd_Eng 303 or 383

**Biomechanics and Rehabilitation**
- Bmd_Eng 250 or Chem 342-1; Bmd_Eng 271
  - Specialization Courses: Bmd_Eng 366 and 371
  - One of Bmd_Eng 270 or Mech_Eng 241
  - One of Bmd_Eng 346 or 349
  - Two of Bmd_Eng 344; 365; 377; Civ_Eng 327; Mech_Eng 315; 362; 389; 390; 391

* Only one of these may be counted toward the specialization
+ Only one of these may be counted toward the specialization

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**Transport Processes & Tissue Engineering**
- Under Basic Engineering: Bmd_Eng 250 or Chem 342-1; Bmd_Eng 270 or Chem_Eng 321 or Mech_Eng 241
- Specialization Courses: Bmd_Eng 271; 350, 377
  - One of Bmd_Eng 346 or 349
  - Two of Bmd_Eng 310, 315, 318, 349, 371, 377, Biol_Sci 315* or 390*

**Biological Materials and Biotechnology**
- Under Basic Engineering: Bmd_Eng 250 or Chem 342-1; Bmd_Eng 270 or Mech_Eng 241; Mat_Sci 201
- Specialization Courses: Bmd_Eng 314; 317; 343; 350
  - Bmd_Eng 344 or Mat_Sci 331
  - One of Bmd_Eng 310; 315; 333; 346* or 349*; 377; Biol_Sci 301+ or 315+ or 390+

**Biomedical Signals and Images**
- Under Basic Engineering: EECS 202
- Specialization Courses: Bmd_Eng 320; 325; 395 (by petition)
  - One of EECS 360 or Mech_Eng 391
  - Two of Bmd_Eng 323; 327; 333; 383; 384; 395; EECS 328; 359

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**PETITION SECTION**

**FOR SEVEN MAJOR SPECIALIZATION COURSES ONLY**

**IT IS NOT NECESSARY TO FILE A CURRICULUM PETITION IN ADDITION TO THIS FORM**

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<th>REQUIREMENT</th>
<th>REQUESTED SUBSTITUTION</th>
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**Do not use this form to petition Basic Engineering Requirements, use yellow Curriculum Petition instead**

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Student’s Signature ___________________________ Date __________

Adviser’s Name ___________________________ Date __________

Adviser’s Signature ___________________________ Date __________

Program Chair’s Signature ___________________________ Date __________

Students should obtain the signature of the advisor and program chair and return the signed form to Undergraduate Engineering Academic Services L269, Tech.

2/29/2008