Flow chart - Bachelor of Science Degree in Biomedical Engineering (2013-14)

Medical Imaging Concentration

Pre-professional Program

1st Yr
1st Sem 18 hrs
- MATH 1426 Calculus I
- BIOL 1441 Cell & Molecular Biology
- CHEM 1441 Gen Chem I (w/ Lab)
- BE 1104 Intro to Engng
- POLS 2311 U.S. Government

1st Yr
2nd Sem 18 hrs
- MATH 2425 Calculus II
- BIOL 1442 Struc & Func of Organisms
- CHEM 1442 Gen Chem II (w/ Lab)
- CSE 1311 Intro Prog for Eng & Sci
- ENG 1301 Critical Thinking, Reading & Writing I

2nd Yr
1st Sem 17 hrs
- PHYS 1443 Tech Phys I (w/ Lab)
- MATH 2326 Calculus III
- CHEM 2321 Organ Chem I Lec
- CHEM 2181 Organ Chem I Lab
- ENG 1302 Critical Thinking, Reading & Writing II
- HIST 1311 U.S. History to 1865

2nd Yr
2nd Sem 16 hrs
- PHYS 1444 Tech Phys II (w/ Lab)
- MATH 3319 Diff Eq & Lin Algebra
- CHEM 4311 Bio Chem I
- 3 Hrs Liberal or Fine Arts (choose one)
- HIST 1312 U.S. History Since 1865

Professional Program

3rd Yr
1st Sem 15 hrs
- BE 3320 Measurement Lab
- EE 2320 Circuit Analysis
- BE 3380 Human Physio in BE
- BIOL 3301 Cell Physiology
- POLS 2312 St & Local Government

3rd Yr
2nd Sem 12 hrs
- EE 3317 Linear Systems
- MATH 3316 Stats Inference or IE 3301 Eng Prob
- BE 3344 Bioinstrumentation
- COMS 2302 Prof, Tech Communication

4th Yr
1st Sem 12 hrs
- BE 3346 Medical Imaging
- BE 4350 Senior Design Project 1 (Instructor permission)
- BE 3345 BioImaging Lab
- BE 3352 Digi Proc of Biol system

4th Yr
2nd Sem 12 hrs
- BE 4382 Lab Principles
- BE 4355 Senior Design Project 2 (Instructor permission)
- PHIL 3319 Biomedical Ethics
- Literature (chosen by student)

*This document is subject to revision. Updated 9/6/2013