Flow chart - Bachelor of Science Degree in Biomedical Engineering (2017-18)

Medical Imaging Concentration

Prerequisite

Pre-professional Program

1st Yr
Fall Sem 18 hrs

1st Yr
Spr Sem 18 hrs

2nd Yr
Fall Sem 17 hrs

2nd Yr
Spr Sem 17 hrs

3rd Yr
Fall Sem 16 hrs

3rd Yr
Spr Sem 15 hrs

4th Yr
Fall Sem 15 hrs

4th Yr
Spr Sem 12 hrs

MATH 1426 Calculus I

BIOL 1441 Cell & Molecular Biology

CHEM 1441 Gen Chem I (w/ Lab)

BE 1105 Med Appl of Engineering

BE 1325 Intro to BE

ENGR 1300 Eng. Prob. Solving

Pre-professional Program Professional Program

MATH 2425 Calculus II

CHEM 1441 Gen Chem II (w/ Lab)

BE 1105 Med Appl of Engineering

CSE 1311 Intro Prog for Eng & Sci

HIST 1311 U.S. History to 1865

ENGL 1301 Rhetoric & Composition I

PHYS 1443 Tech Phys I (w/ Lab)

CHEM 1442 Gen Chem II (w/ Lab)

BE 1105 Med Appl of Engineering

ENGR 1300 Eng. Prob. Solving

PHYS 1444 Tech Phys II (w/ Lab)

MATH 2326 Calculus III

BE 3415 Fundamentals of Bio-Molecular Eng

BE 3311 Stats Inference or IE 3301 Eng Prob

BE 2310 Eng Appr to Solve clinical Challenges

MATH 23319 Diff Eq & Lin Algebra

BE 3320 Measurement Lab

BE 3352 Eng Prob Pre-reg MATH 2425

Counted as a BE Tech Elec

BE 2310 Eng Appr to Solve clinical Challenges

1444 concurrent w/ 3320

3rd Yr
Fall Sem 16 hrs

3rd Yr
Spr Sem 15 hrs

4th Yr
Fall Sem 15 hrs

4th Yr
Spr Sem 12 hrs

BE 4382 Lab Principles

BE 3380 Human Physio in BE

EE 2440 Circuit Analysis w Lab

BE 3317 Linear Systems in Bioengineering

PHIL 2311 U.S. Government

POLS 2312 State & Local Government

HIST 1312 U.S. History Since 1865

or concurrent

BE 3349 Medical Imaging

BE 3344 Bioinstrumentation

BE 3301 Cell Physio for Bioengineers

BE 3317 Linear Systems in Bioengineering

Students in Pre-Professional Program must complete all Sci/Eng/Math courses (not including statistics), BE 3415, 3320, ENGL1301, and COMS2302 prior to taking any Professional Program courses. Admission to Professional Program is required to take any Professional Program courses.

This document is subject to revision. Updated 7/13/2017