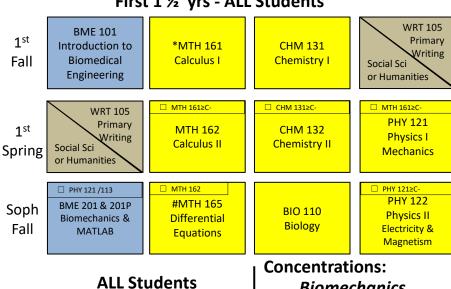
University of Rochester Biomedical Engineering (BME) Program

First 1½ yrs - ALL Students



*An alternative to the MTH 161 and 162 sequence is the MTH 141, 142, 143 sequence. Careful attention must be paid to the effects of this longer sequence, including the possible need to take a course in the summer following the first year. Students taking the 141-3 series also take PHY 113 instead of PHY 121. MTH 171-4 also fulfills the Math requirements. # MTH 164 may be taken before MTH 165 – both courses are taught Fall & Spring.

★ All students must complete at least two additional BASIC SCIENCE Electives (at least 8 credits) in addition to BIO 110, CHM 131/132 and PHY 121/122. Any natural science with a number of 110 or higher (biology, chemistry, microbiology, environmental science, neuroscience, physics, or selected courses from brain & cognitive sciences) may be used to fulfill this requirement. Independent study courses cannot be used to satisfy this requirement Students in C&T concentration must take either BME 211, BIO 210 or BIO 202 as one of the BSE courses. See curriculum guide for further information. OPT 242/244 are suggested electives for the Medical Optics concentration but can be substituted.

All students need ONE Upper Level BME course (listed in Curriculum Guide). These are offered in both fall and spring. Three of the four required Humanities/Social Science courses must form a CLUSTER.

**WRT 273 (2 cr.) may be taken either Spring sophomore year or Fall junior year.

& Math

Pre-requisites for each course are noted at the top of each box (underlined courses are co-requisites)

Flexibility: Boxes with diagonal splits represent alternate choices for that semester. Electives and BSE course may be moved between semesters. Use this flexibility to consider options for study abroad, research, minors, or other interests!

BME Basic Science Humanities / **Basic Science** Color Concen-

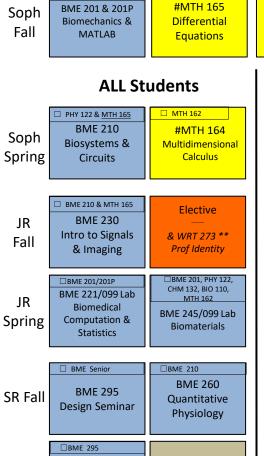
Junior standing

CHE 225

Thermo-

dynamics

Elective



BME 296

Senior Design

Project

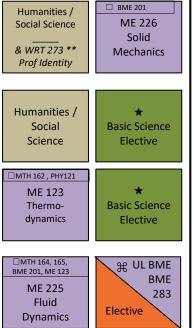
Humanities /

Social Science

SR

Spring

Biomechanics



Elective

₩UL BME

Elective

BME

212

Biosignals & Biosystems

CORE

Code:

Humanities /

Social Science

BME

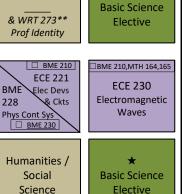
☐ BME 230

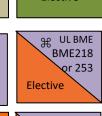
ECE 246

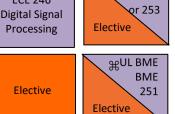
Processing

Elective

228

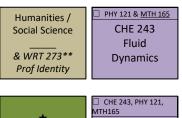


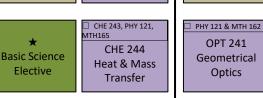




Cell & Tissue Eng

Soc Sci / Writing





Elective

tration

Humanities /

Social Science

& WRT 273**

Prof Identity

Medical Optics

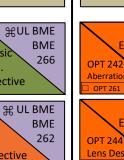


Basic

Elective

Elective

Sci.





Electives

PHY 122 & MTH 162

BME 270

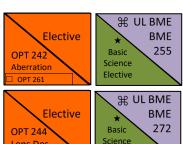
Biomedical

Microscopy

Basic Science

Elective

PHY 122 & MTH 164



Elective