

Bachelors of Science in

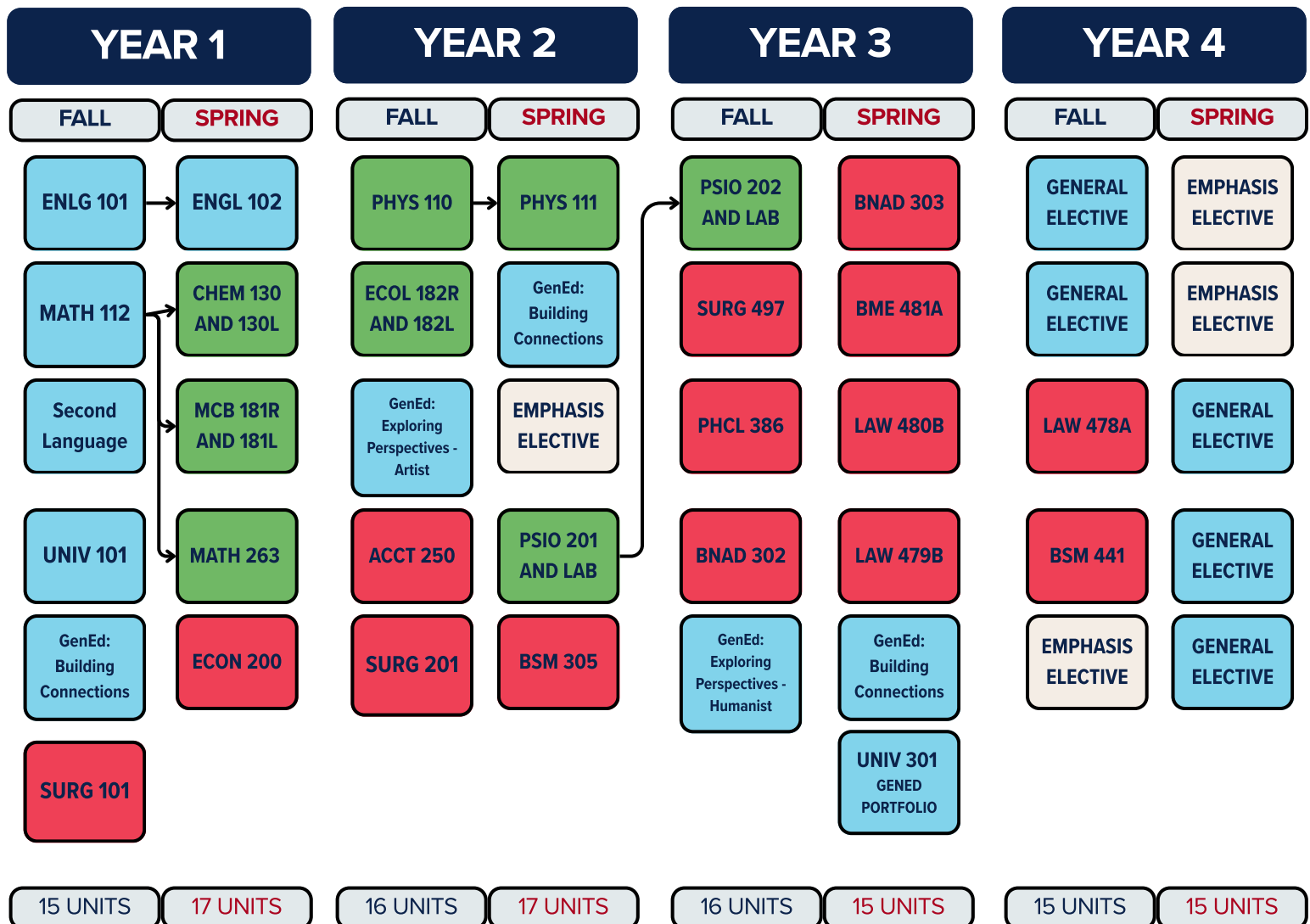
MEDICAL DEVICE DEVELOPMENT AND APPLICATION

Medical Device Technology

The Medical Device Technology emphasis focuses on device design, innovation, and development, preparing students to contribute to the creation of cutting-edge healthcare solutions. This emphasis also explores the role of big data in advancing individualized health care, equipping students with the skills to analyze and apply data for more precise and effective patient outcomes. Additionally, it highlights the clinical applications of medical technology, emphasizing how these innovations are implemented in real-world healthcare settings to improve diagnosis, treatment, and overall patient care.

Sample 4-Year Plan

FLOWCHART BELOW IS SUBJECT TO CHANGE AND FOR SAMPLE PURPOSES ONLY. PLEASE CONSULT WITH YOUR ADVISOR TO EXPLORE YOUR PERSONAL ACADEMIC NEEDS/SITUATION.





Emphasis Electives

Course	Units	Notes
<u>BME 295C Challenges in Biomedical Engineering</u>	1	
<u>BME 486 Biomaterial-Tissue Interactions</u>	3	
<u>BSM 319 The History of Medical Technology</u>	2	
<u>CMM 465 Fundamentals of Light Microscopy and Digital Imaging</u>	3	
<u>HSD 401 Design for Health Workshop: Addressing Human Health Challenges with Design Thinking</u>	3	(Gen Ed Building Connections)
<u>HSD 410 Device Design in the Health Sciences: Developing Tools for Health Care Solutions using Design Thinking</u>	3	Junior or Senior standing AND previous completion of Calculus I (MATH 122B, or MATH 125, or equivalent transfer course), or with instructor permission.
<u>HSD 420 Healthy Design Practices: From the Makerspace to the Community</u>	3	
<u>LAW 476A Drug Discovery, Development, and Innovation to Reach the Marketplace</u>	3	
<u>MED 497 Research Development and Publishing</u>	3	
<u>PHP 205 Fundamentals of Telehealth</u>	3	