

5.4 Ph.D. Curriculum

Students entering with a BS degree are required to take a total of **60 credit hours**:

24 credit hours of course work (minimum)

- 13 core course credit hours
 - BIOE 8160 (3)
 - BIOE 8460 (3)
 - STAT 8010 (3)
 - Technical Course (BIOE 8010, 8200 or 8700) (3)
 - BIOE 8000 (1)
- 9 additional credit hours of track elective courses
- Up to 2 additional hours of BIOE 8000

36 credit hours of doctoral research (BIOE 9910) (minimum)

Consult with your research advisor regarding the technical elective courses offered by the department and applicable to your project. The table below offers a guideline to courses most relevant for each track.

TRACKS – RESEARCH FOCUSED (Recommended Elective Technical Courses)

BIOMATERIALS ENGINEERING	REGENERATIVE MEDICINE	BIOELECTRICAL ENGINEERING	BIOMECHANICAL ENGINEERING	CELLULAR AND MOLECULAR ENGINEERING
TRACK ELECTIVES:	TRACK ELECTIVES:	TRACK ELECTIVES:	TRACK ELECTIVES:	TRACK ELECTIVES:
BIOE 8010 BIOE 8020 BIOE 8200 BIOE 8470 BIOE 6120 BIOE 6230 BIOE 8030 BIOE 8070 BIOE 8240/8241 BIOE 8410 BIOE 8700/8701 BIOE 6820/8820 BIOE 6490/8410 BIOE 8490	BIOE 8010 BIOE 8020 BIOE 8490 BIOE 8730 BIOE 8470 BIOE 6400 BIOE 8410 BIOE 8240/8241 BIOE 8200 BIOE 6120 BIOE 6230 BIOE 8740 BIOE 8750 BIOE 6820	BIOE 6310/6311 BIOE 6350 BIOE 8700/8701 BIOE 6710 BIOE 6450 BIOE 6820/8820 BIOE 6230 BIOE 8620 BIOE 8630 BIOE 8130 BIOE 8140 BIOE 8150 BIOE 8500 BIOE 8600 BIOE 8610 BIOE 8110	BIOE 6120 BIOE 6200 BIOE 6230 BIOE 8010 BIOE 6350 BIOE 6340 BIOE 8200 BIOE 8240 BIOE 8470 BIOE 8490 BIOE 8500 BIOE 6310 BIOE 6450 BIOE 6710 BIOE 6820/8820 BIOE 8200 BIOE 8020 BIOE 8030 BIOE 8110 BIOE 8150 BIOE 8700	BIOE 6400 BIOE 6420 BIOE 6470 BIOE 6490/8410 BIOE 8010 BIOE 8020 BIOE 8030 BIOE 8240 BIOE 8490 BIOE 8500 BIOE 8730 BIOE 6820 BIOE 8820 GEN 8100 BIOL 6030
TRACK MEMBERS:	TRACK MEMBERS:	TRACK MEMBERS:	TRACK MEMBERS:	TRACK MEMBERS:
Bob Latour (Chair) Jeremy Gilbert Jeoung Soo Lee Ying Mei Alexey Vertegel	Dan Simionescu (Chair) Aggie Simionescu Brian Booth Jeremy Mercuri Naren Vyavahare Ken Webb	Delphine Dean (Chair) Bruce Gao Tong Ye Jordon Gilmore Joseph Singapogu	John DesJardins (Chair) Martine LaBerge Jiro Nagatomi Hai Yao Melinda Harman Will Richardson Yongren Wu	Renee Cottle (Chair) Ann Foley Sarah Harcum Angela Alexander-Bryant David Karig