Doctoral Coursework

**Overall Requirements.** A minimum of 90 semester credits beyond the baccalaureate degree are required.

- Minimum of 30 credits at the 7000-level or above.
  (may include BME 7010, BME 7990, BME 7996, BME 8070, BME 8080, and life science courses)
- If more than 12 credits of 7990 and 7996 are to be applied to the degree, this must be substantially justified by both the student and the advisor and must be approved by the Graduate Program Officer
- At least 30 credits of coursework, outside of dissertation direction, must be completed at Wayne State

**Credit Breakdown.** The 90 semester credits should consist of:

- 17/18 credits of core courses plus 37/36 credits of elective coursework
- 6 credits of life sciences minor
- 30 credits of dissertation research (BME 999x)

The details of credits are given below.

**17-18 credits of core courses:**

- BME 5010 – Advanced Quantitative Physiology (4 cr)
- BME 5020 - Computer and Mathematical Applications (4 cr)
- BIO 5040 or FPH 7015 - Biological Statistics (3-4 cr)
- BME 7010 - Functional Anatomy (4 cr)
- BME 8070 - Seminar in Biomedical Engineering (1 cr)
- BME 8080 – Doctoral Seminar in Biomedical Engineering (1 cr)

**6 credits of a minor in the life sciences**

- 6 credits of graduate life science courses beyond those of the core courses above.
- **ANA7010:** If ANA 7010 (Gross Anatomy) is used as life sciences minor requirement, it can be used to substitute BME 7010 and 4 of the required 6 minor credits. In addition, 2 credits of life sciences outside of the core courses are needed to meet 6 minor credits.

**30 credits of dissertation research (BME 999x)**

**36-37 credits of elective coursework that meet all of the following conditions:**

- Minimum of 12 credits of lecture credits in the Biomedical Engineering program excluding the core courses.

**Transfer of Credit - Doctor of Philosophy Form**

Transfer credit must be appropriate to the student's degree program. Student should adhere to these guidelines when requesting transfer of credit.

- A student wishing to transfer graduate credit toward the Ph.D. program should file a **Transfer of Credit - Doctor of Philosophy Form** with the **Doctor of Philosophy - Plan of Work**.
- Transfer of Credit form must be accompanied by 1) course syllabus and 2) original, official transcripts from the university where the credit was earned.
- A minimum grade of B is necessary to transfer credits; B-minus credits and courses graded "P" or "S" (Pass or Satisfactory) are not transferable.
- Transfer credit cannot be used to reduce the minimum requirement of thirty credits that must be earned at Wayne State.