



Ph.D. Minor Requirements and Guidelines

The Biomedical Engineering Department offers two different options for Ph.D. students interested in a minor in Biomedical Engineering; both options are designed to represent a coherent body of work, and should not simply involve an after-the-fact ratification of a number of courses:

Option A (for both **BME and Non-BME Graduate Students**) requires students to complete with graduate credits from a single department or field of study.

Option B (**BME students only**) requires students to complete graduate credits distributed across two or more departments or fields of study.

Both Ph.D. students pursuing majors in Biomedical Engineering (BME students) and Ph.D. students pursuing majors outside of the department (non-BME students) are eligible for a minor in Biomedical Engineering.

BME Students: BME students are eligible to complete a minor through either option A or B; however, since 2013, the Graduate School has exempted BME students from its minor requirement by acknowledging that the interdisciplinary nature of the Biomedical Engineering major already provides that academic breadth that a minor is designed to add to a student's degree. BME students should refer to the [Graduate Student Handbook located on the BME website](#) for more details regarding minor exemption and consult with their faculty advisor for help in choosing minor coursework that will appropriately supplement their Ph.D. program requirements.

Non-BME Students: Non-BME students are **only** eligible to earn a BME minor through completion of Option A requirements. Students should consult with their Ph.D. faculty advisor for more information on their specific department policies on minor course work use. Courses completed to satisfy minor requirements in Biomedical Engineering may or may not also satisfy Ph.D. program requirements for their primary degree program.

To satisfy Option A requirements for a BME minor (for BME and Non-BME Students):

- Earn at least **10** credits from a single degree program and satisfy the requirements specified by the minor department or program. Approval of the courses for the Option A minor is certified by the [BME Associate Chair of Graduate Advising](#).
- One course which is cross-listed with BME may be used for the minor if the course is not applied to any other Ph.D. requirement in the BME degree program.
- Meet the requirements identified on the Option A Minor Approval Form (attached here) and submit the form to their faculty advisor and to the BME Associate Chair of Graduate Advising for approval (no later than halfway through the minor course sequence and **before** requesting the Preliminary Exam Warrant).

To satisfy the Option B requirements for a BME minor: (Distributed curriculum: for BME Students only):

- Earn at least **12** graduate credits in two or more departments or programs (this can include BME courses not already used for any other Ph.D. degree requirement).
- Meet the requirements identified on the Option B Minor Approval Form (attached here) and submit the form to their advisor and to the BME Associate Chair of Graduate Advising for approval (no later than halfway through the minor course sequence and **before** requesting the Preliminary Exam Warrant).

Upon completion of all minor courses (either A or B), a copy of the completed and approved minor form must be submitted to the student's graduate coordinator office in the Graduate Student Center in 3182 ME. (BME Students may also upload their form into their online student file in the BME Box system).



Minor Approval Form: Option A (BME and Non-BME Students)

Student Name: _____ Campus ID: _____

IF BME STUDENT: Minor Department: _____

IF NON-BME STUDENT: Current Ph.D. Graduate Program: _____

The minor program for Option **A** should be designed to represent a coherent body of work and requires the following for completion:

- Ten (10) or more graduate credits in a **single** department or field of study is required. One (1) cross-listed BME course may be used in the Option A.
- A grade-point average of at least 3.00 across the minimum ten credits.
- One course which is cross-listed with BME may be used for the minor if the course is not applied to any other Ph.D. requirement in the BME degree program.
- Student completion and submission of this form for approval to form to their faculty advisor and to the [BME Associate Chair of Graduate Advising](#) (no later than halfway through the minor course sequence and before requesting the Preliminary Exam Warrant). **This form must be accompanied by a paragraph explaining how these courses represent a coherent minor area of specialization.**

Dept. & Course #	Instructor	Course Title	Grade	# of Credits	Semester Taken (e.g., Spring 2018)

For Departmental Use:

I approve the above graduate courses for use in satisfying the Ph.D. Minor Agreement (Option A).

Advisor Name: _____ Advisor Signature: _____ Date: _____

BME Associate Chair of Graduate Advising: _____ Date: _____



Minor Approval Form: Option B (Distributed Program for BME Students)

Student Name: _____

Campus ID: _____

Minor Departments (Two (2) or more) : _____

The minor program for Option B (Distributed) should be designed to represent a coherent body of work and requires the following for completion:

- Twelve (12) or more graduate credits in **two (2) or more** departments (including the BME program) may be chosen. BME courses used here may not be applied to any other Ph.D. course requirement.
- A grade-point average of at least 3.00 across the minimum twelve credits.
- Student completion and submission of this form for approval to form to their advisor and to the [BME Associate Chair of Graduate Advising](#) (no later than halfway through the minor course sequence and before requesting the Preliminary Exam Warrant). **This form must be accompanied by a paragraph explaining how these courses represent a coherent minor area of specialization.**

Dept. & Course #	Instructor	Course Title	Grade	# of Credits	Semester Taken (e.g., Spring 2018)

For Departmental Use:

I approve the above graduate courses for use in satisfying the Ph.D. Minor Agreement (Option B).

Advisor Name: _____ Advisor Signature: _____ Date: _____

BME Associate Chair of Graduate Advising: _____ Date: _____