

BioE Student Petition form

Please address the following questions when submitting your petition.

When petitioning, please attach the syllabus, including grading schemes, topics covered, textbook used, etc.

Please note that we strongly encourage students to petition a class to be counted towards your PoS BEFORE the class is taken.

Name: Lab: GT ID Number:	
1. What is the reason to petition this class to include in your PoS? Does your advisor agree with the rationale behind the petition?	
2. Does the class fit the definition of EF, BS, or TE according to the handbook? The definitions are below	
3. Are exams used to assess the learning? Are there homework assignments? (please note- the committee typically only approve EF classes with a substantial portion of the grade derived from exams)	
4. Is this class a special topic class? If so, how many times has it been offered? Is it likely to continue?	
5. If you have taken the class elsewhere, please identify GT equivalents if possible and attach the syllabi.	

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Definitions:

Per the BioE Handbook:

4.2.1 Engineering Fundamentals Engineering Fundamentals are courses that apply a relatively small set of quantitative principles to a wide class of problems for the purposes of design or analysis. The focus should be applying these basic principles to complex problems. These courses should not have a biological or biomedical focus.

4.2.2 Biological Sciences Biological Sciences are courses that enhance a student's knowledge and skills in the biological sciences. Engineering courses involving biomedical applications almost always do not count towards this requirement. The few exceptions are science-focused courses, primarily courses in physiology and pathophysiology offered by the department of BME. Students typically satisfy this requirement with courses offered by the Schools of Biology, Chemistry and Biochemistry, and Applied Physiology. Many students cross-enroll in courses offered by graduate programs at Emory University and Georgia State University. A Ph.D. student must take at least one Biological Foundations course prior to taking the Ph.D. qualifying exam. This list of courses is: APPH 6211, BIOL 7001, BMED 6031, BMED 6042, CHEM 6501, IBS 555, and IBS 514.

4.2.3 Engineering Mathematics The Engineering Mathematics requirement is satisfied by a single course taken from the following list: ChBE 6500, MATH 6643, ECE 6601, MATH 6267, or PHYS 6268. Additional courses may be approved by petitioning the Bioengineering Graduate Committee, who will evaluate such requests in terms of course rigor and applicability to engineering problems. Courses at the 4000-level, as well as courses on the topic of statistical analysis, are explicitly not allowed. The Mathematics requirement for Ph.D. students who matriculated prior to 2006, as well as M.S. students, requires 6 semester hours of coursework (not constrained to the above list), of which at least 3 semester hours must be at the graduate level. Courses are subject to approval by the Graduate Studies Committee. It is recommended to consult with the Program Chair regarding acceptable courses in this category prior to submitting a revised PoS

4.2.4 Bioengineering/Electives These are courses focused in the student's chosen area of research and should be justified in the narrative submitted with a student's Program of Study.

4.2.5 Coherent Minor The Coherent Minor is a requirement demonstrating sufficient depth in another concentration area. This consists of several courses in a coherent research area. The course applicable towards the minor may also count towards the other PoS categories; students often utilize their Engineering Fundamentals or Biological Sciences courses to also satisfy their minor requirements.