

UNIVERSITY OF KENTUCKY
GRADUATE PROGRAM IN BIOMEDICAL ENGINEERING
Guidelines for Students with Non-Engineering Backgrounds

Applicants for admission to the Graduate Program in Biomedical Engineering must meet the general requirements of The Graduate School and are expected to hold a baccalaureate degree from an ABET accredited engineering program or its equivalent. Applicants with baccalaureates in other disciplines are considered on a case-by-case basis.

For students who do not have an engineering degree, we require that they take the following courses before becoming eligible for admission. The courses listed below are those offered at the University of Kentucky, however, equivalent courses completed at other institutions may be substituted. The first block of courses is common to many of the life and physical science curricula at the University of Kentucky. The second block provides additional mathematics and fundamental engineering course work. The third block is intended for enhancement of the prospective applicant's background in an engineering discipline that is of interest.

Please contact the Director of Graduate Studies for further information.

<u>Course</u>	<u>Title</u>	<u>Credit Hours</u>
CHE 105	General College Chemistry I	3
CHE 107	General College Chemistry II	3
PHY 231	General University Physics	4
PHY 241	General University Physics Lab	1
PHY 232	General University Physics	4
PHY 242	General University Physics Lab	1
MA 113	Calculus I	4

MA 114	Calculus II	4
MA 213	Calculus III	4
MA 214	Calculus IV	3
CS 221	Computer Science for Engineers	2
EE 305	Circuit Analysis with Applications	3
EM 221	Statics	3
ME 220	Engineering Thermodynamics I	3

XXX xxx	Technical Elective	3
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For assistance in deciding the two technical electives, it is recommended that the prospective student identify an area of research interest and contact faculty who work in that area for advice regarding selection of these courses. For further information about faculty and their research interests, please see our website, <http://www.cbme.uky.edu/> or contact the Director of Graduate Studies. The above are pre-requisites that we require non-engineering students to take before they become eligible for admission into our program. Completion of these pre-requisites will make an applicant eligible for consideration for admission but does not guarantee that an admission will be offered after completion of these courses.