

Catalog of Postgraduate Programs and Curricula

Curriculum for PhD(BIEN) (For students admitted in 2010-11)

Program Requirements for Doctor of Philosophy (PhD) Program in Bioengineering

Credits

1. To complete **at least 15 credits** of coursework, including:
 - 6 credits of core courses;
BIEN 501 *Molecular Biology for Bioengineering*; or
BIEN 504 *Introduction of Bioengineering Research*
 - 3 credits from the restrictive bioengineering electives; and
 - 6 credits of non-restrictive elective course selected from the students' chosen area of major concentration.
2. Students without an degree in biology or related disciplines may be required to take at least one additional UG course covering appropriate basic knowledge in life science and obtain a passing grade of C+ or above. The Program Director has the authority to waive this requirement for justifiable cases if necessary.
3. Students entering with a master's or equivalent degree in Engineering or a related discipline may be granted credit transfer of up to 6 credits by the Program Director. Students entering with a master's degree in Bioengineering may be granted credit transfer of up to 12 credits subject to the approval of the Program Director.

Postgraduate Seminar

1. **Full-time students** must take BIEN 680 *Bioengineering Seminar* every semester, and present at least 2 seminars during their degree study. Students must pass BIEN 680 five times, which should include the semesters when they present their seminars.
2. **Part-time students** must take and pass BIEN 680 at least twice in the semesters when they present their seminars.

Language Requirements

Full-time students must pass LANG 501 *Postgraduate English for Academic Purposes*.

- (a) *The 1 credit earned from LANG 501 cannot be counted toward the credit requirements.*
- (b) *Exemption from taking LANG 501 may be granted by the Program Director.*

Qualifying Examination

To pass a qualifying examination within the 1½ years of the PhD study.

Research and PhD Thesis Examination

1. To conduct research and enroll in BIEN 799 *Doctoral Thesis Research*; and
2. To defend the PhD thesis successfully.