

## Master of Philosophy (MPhil) and Doctor of Philosophy (PhD) Programs in Bioengineering

### *Curriculum for Master of Philosophy (MPhil) Program in Bioengineering*

The Master of Philosophy (MPhil) program requires completion of at least 12 credits of coursework, including 3 credits of BIEN courses (BIEN 5010 or BIEN 5040), 3 credits from the restrictive bioengineering electives, and 6 credits of non-restrictive elective courses selected from the students' chosen area of major concentration. Full-time students must take BIEN 6800 Bioengineering Seminar every regular term, and present at least one seminar during their study.

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.

Students must pass BIEN 6800 three times including once in the term when they present their seminar. Part-time students must take and pass BIEN 6800 at least once in the term when they present their seminar. Full-time students must complete LANG 5001 Postgraduate English for Academic Purposes. Students may be exempted from taking LANG 5001 with the agreement of the Program Director.

In addition, students must complete a thesis in order to demonstrate their competence in bioengineering research. If a student participates in an industrial project and writes a thesis on a work-related topic, the thesis will be supervised jointly by a faculty member of the program and a representative from the participating company.

### *Curriculum for Doctor of Philosophy (PhD) Program in Bioengineering*

The Doctor of Philosophy (PhD) program requires completion of at least 15 credits of coursework, including 6 credits of core courses (BIEN 5010 and BIEN 5040), 3 credits from the restrictive bioengineering electives, and 6 credits of non-restrictive elective courses selected from the students' chosen area of major concentration. Full-time students must take BIEN 6800 Bioengineering Seminar every regular term, and present at least two seminars during their study. They must pass BIEN 6800 five times including the terms when they present their seminars. Part-time students must take and pass BIEN 6800 at least twice in the terms when they present their seminars.

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.

Students entering with a master's or equivalent degree in Engineering or related discipline may be granted credit transfer of up to 6 credits. 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. Full-time students must complete LANG 5001 Postgraduate English for Academic Purposes. They may be exempted from taking LANG 5001 with the agreement of the Program Director.

To become a doctoral candidate, the student must pass a qualifying examination within the first one and a half years of his PhD study. Upon completion of the course requirement and the thesis, the candidate is required to defend the thesis before a Thesis Examination Committee.