JUNTA DE SÍNDICOS
UNIVERSIDAD DE PUERTO RICO

CERTIFICACIÓN NÚMERO 75
2012-2013

Yo, Aida Ávalo de Sánchez, Secretaria de la Junta de Síndicos de la Universidad de Puerto Rico, CERTIFICO QUE:

La Junta de Síndicos, en su reunión ordinaria del sábado, 27 de abril de 2013, previa recomendación del Comité de Asuntos Académicos y con el endoso del Presidente de la Universidad de Puerto Rico, acordó:

Aprobar la creación de las siguientes dos (2) maestrías y un doctorado en el Colegio de Ingeniería del Recinto Universitario de Mayagüez: (1) Maestría en Bioingeniería; (2) Maestría en Ciencias en Bioingeniería y (3) Doctorado en Filosofía en Bioingeniería. Las secuencias curriculares se hacen formar parte de esta Certificación.

El Colegio de Ingeniería del Recinto Universitario de Mayagüez:

1. **Actualizará las referencias en todos los prontuarios de los cursos conducentes a los tres (3) grados aprobados, antes de que la Vicepresidencia en Asuntos Académicos inicie el trámite de la solicitud de enmienda a la Licencia de la Universidad de Puerto Rico ante el Consejo de Educación de Puerto Rico.**

2. **Podrá anunciar los nuevos ofrecimientos y abrirlos a la admisión, una vez se reciba la Certificación del Consejo de Educación de Puerto Rico autorizando la enmienda a la Licencia a los efectos del otorgamiento de estos grados y la Vicepresidencia en Asuntos Académicos asigne un código a los programas.**

3. **Establecerá formalmente los criterios mínimos para la facultad del programa, para consignar las expectativas del profesorado actual y guiar los futuros reclutamientos.**

4. **Asignará la tarea académica adecuada a la facultad, para estimular la investigación competitiva y la obtención de fondos externos para su financiamiento.**

Todo costo adicional relacionado con la implantación de todo lo dispuesto en la presente Certificación, será con cargos a los fondos propios del Recinto Universitario de Mayagüez.

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TEL. (787) 758-3350, FAX (787) 758-7196

Y PARA QUE ASÍ CONSTE, expido la presente Certificación, en San Juan, Puerto Rico, hoy 29 de abril de 2013.

Aida Ávalo de Sánchez
Secretaria

MASTERS OF BIOENGINEERING

Typical course sequence for a student pursuing the Masters of Engineering (Plan II - Project) degree

31 credits

Courses	First Semester	Credits
BING 6XXX	Molecular and Cellular Biology for Engineers	3
INME 6105	Principles of Biomedical Engineering	3
----------	Course in Bioengineering	3
BING 8998	Graduate Seminar	0
Total		**9**

Courses	Second Semester	Credits
BING 6XXX	Principles of Computational Bioengineering	3
----------	Course in Bioengineering	3
----------	Course Outside of Bioengineering	3
BING 8998	Graduate Seminar	0
Total		**9**

Courses	Third Semester	Credits
----------	Elective Course	3
----------	Course Outside of Bioengineering	3
BING 6998	Engineering Project	3
BING 8998	Graduate Seminar	0
Total		**9**

Courses	Fourth Semester	Credits
BING 6998	Engineering Project	3
BING 8998	Graduate Seminar	1
Total		**4**

Typical course sequence for a student pursuing the Masters of Engineering (Plan III – Courses Only) degree

37 credits

Courses	First Semester	Credits
BING 6XXX	Molecular and Cellular Biology for Engineers	3
INME6105	Principles of Biomedical Engineering	3
----------	Course in Bioengineering	3
BING 8998	Graduate Seminar	0
Total		**9**

Courses	Second Semester	Credits
BING 6XXX	Principles of Computational Bioengineering	3
----------	Course in Bioengineering	3
----------	Course Outside of Bioengineering	3
BING 8998	Graduate Seminar	0
Total		**9**

Courses	Third Semester	Credits
----------	Course in Bioengineering	3
----------	Course in Bioengineering	3
----------	Course Outside of Bioengineering	3
BING 8998	Graduate Seminar	0
Total		9

Courses	Fourth Semester	Credits
----------	Course in Bioengineering	3
----------	Elective Course	3
----------	Elective Course	3
BING 8998	Graduate Seminar	1
Total		10

MASTERS OF SCIENCE IN BIOENGINEERING

Typical course sequence for a student pursuing the Masters of Science (Plan I - Thesis) degree

31 credits

Courses	First Semester	Credits
BING 6XXX	Molecular and Cellular Biology for Engineers	3
INME 6105	Principles of Biomedical Engineering	3
----------	Course in Bioengineering	3
BING 8998	Graduate Seminar	0
Total		**9**

Courses	Second Semester	Credits
BING 6XXX	Principles of Computational Bioengineering	3
----------	Course in Bioengineering	3
----------	Course Outside of Bioengineering	3
BING 8998	Graduate Seminar	0
Total		**9**

Courses	Third Semester	Credits
----------	Elective Course	3
----------	Course Outside of Bioengineering	3
BING 6999	Master's Thesis	3
BING 8998	Graduate Seminar	0
Total		**9**

Courses	Fourth Semester	Credits
BING 6999	Master's Thesis	3
BING 8998	Graduate Seminar	1
Total		**4**

Curricular Sequence

DOCTOR IN PHILOSOPHY IN BIOENGINEERING

Typical course sequence for a student admitted with a B.S. degree

49 credits

Courses	First Semester	Credits
BING 6XXX	Molecular and Cellular Biology for Engineers	3
INME6105	Principles of Biomedical Engineering	3
----------	Course Outside of Bioengineering	3
BING8998	Graduate Seminar	0
Total		9

Courses	Second Semester	Credits
BING6XXX	Principles of Computational Bioengineering	3
----------	Course in Bioengineering	3
----------	Course in Bioengineering	3
BING 8998	Graduate Seminar	0
Total		9

Preliminary Exam (Summer)

Courses	Third Semester	Credits
----------	Course Outside of Bioengineering	3
----------	Course Outside of Bioengineering	3
----------	Elective Course	3
BING 8998	Graduate Seminar	0
Total		9

Courses	Fourth Semester	Credits
----------	Elective Course	3
BING 8999	Doctoral Dissertation	3
BING 8998	Graduate Seminar	0
Total		6

Courses	Fifth Semester	Credits
BING 8999	Doctoral Dissertation	3
BING 8998	Graduate Seminar	0
Total		3

Courses	Sixth Semester	Credits
BING 8999	Doctoral Dissertation	3
BING 8998	Graduate Seminar	0
Total		3

Courses	Seventh Semester	Credits
BING 8999	Doctoral Dissertation	6
BING 8998	Graduate Seminar	0
Total		6

Courses	Eighth Semester	Credits
BING 8999	Doctoral Dissertation	3
BING 8998	Graduate Seminar	1
Total		4

Typical course sequence for a student admitted with an M.S. degree
36 credits

Courses	First Semester	Credits
BING 6XXX	Molecular and Cellular Biology for Engineers	3
INME 6105	Principles of Biomedical Engineering	3
----------	Course Outside of Bioengineering	3
BING 8998	Graduate Seminar	0
Total		9

Courses	Second Semester	Credits
BING 6XXX	Principles of Computational Bioengineering	3
----------	Course in Bioengineering	3
BING 8999	Doctoral Dissertation	3
BING 8998	Graduate Seminar	0
Total		9

Preliminary Exam (Summer)

Courses	Third Semester	Credits
BING 8999	Doctoral Dissertation	3
BING 8998	Graduate Seminar	0
Total		3

Courses	Fourth Semester	Credits
BING 8999	Doctoral Dissertation	3
BING 8998	Graduate Seminar	0
Total		3

Courses	Fifth Semester	Credits
BING 8999	Doctoral Dissertation	6
BING 8998	Graduate Seminar	0
Total		6

Courses	Sixth Semester	Credits
BING 8999	Doctoral Dissertation	3
BING 8998	Graduate Seminar	1
Total		6