

Introducing a Nuclear Engineering Concentration at The City College of New York Departments of Mechanical and Chemical Engineering

Executive Summary

Establish a concentration in nuclear engineering in the existing mechanical and chemical engineering curricula. The new concentration will contain four elective courses in reactor physics and engineering, reactor thermal hydraulics, nuclear power plant safety and nuclear power plant design and operation and will provide laboratory and computer based simulation experience to the students. Three additional modules will be developed and introduced in four core courses in order to provide exposure of nuclear engineering to all engineering students. The four courses will be part of the undergraduate curriculum and will be made available to Master's students who are allowed to take two advanced level undergraduate courses.

The proposed curricular development will provide the students of a minority and Hispanic Serving Institution with the necessary experience and skills in nuclear engineering to enter careers in the nuclear industry and will satisfy a national need. The Energy Science and Technology Department of Brookhaven National Laboratory will collaborate in the present educational development.

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