



College of Engineering

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Date: 22 January 2015

To: Randy Smith
Vice Provost, Office of Academic Affairs (OAA)

From: Ed McCaul
Secretary, College Committee on Academic Affairs (CCAA)

Subject: Nuclear Engineering Minor

CCAA has reviewed and approved the attached Nuclear Engineering Minor on the 22nd of January 2015. This minor is being submitted to you as required by the university's new minor policy. If you have any questions concerning this minor please let me know.

Undergraduate Minor in Nuclear Engineering

The undergraduate minor in Nuclear Engineering requires 2 core courses and 2 additional courses selected from a list of specializations. The courses offered in the Nuclear Engineering minor and prerequisites are listed below.

Prerequisites

Math 2173, 2177, 2255 (255), or 2415 (415), and Physics 1251 (133)

Core

NUCLREN 4505 Nuclear Science and Engineering (3 credit hours) – AU and SP

NUCLREN 4536 Nuclear Reactor Systems (3 credit hours) - SP

Options (select a minimum of 6 credit hours from the following courses)

NUCLREN 4506 Undergraduate Nuclear Engineering Laboratory (3 credit hours)- AU

NUCLREN 4701 Introduction to Nuclear Power Engineering (3 credit hours)- AU

NUCLREN 5606 Radiation Protection and Shielding (3 credit hours)- AU and SP

NUCLREN 5610 Reactor Safety (3 credit hours)- SP

NUCLREN 5716 Probabilistic Risk Assessment (3 credit hours)- AU

NUCLREN 5717 Human Reliability Analysis (3 credit hours)- SP

NUCLREN 5776 Radioactive Waste Management/Nuclear Fuel Cycles (3 credit hours)-

AU

NUCLREN 5742 Nuclear Radiations and Their Measurements (3 credit hours)- SP

NUCLREN 5735 Nuclear Power Plant Operations (3 credit hours)- SP

NUCLREN 6537 Nuclear Reactor Thermal Hydraulics* (3 credit hours)- AU

NUCLREN 6708 Reactor Theory* (3 credit hours)- AU

NUCLREN 6725 Reactor Dynamics* (2 credit hours)- AU

NUCLREN 6726 Reactor Dynamics Laboratory* (2 credit hours)- SP

*With permission of instructor. If NUCLREN 6725 and 6726 are selected and approved, the student needs to take a total of five courses to satisfy the minimum requirement of 12 cr. hr.

Grades Required

- Minimum C- for a course to be listed on the minor
- Minimum 2.00 cumulative point-hour ratio in the minor course work

Contact Information

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