**Nuclear Power Engineering (NCPE) Minor**

# Suggested Plan

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| **Course** | **Description** | **Suggested Semester** |
| ME3834 (4) Fluid Mech. | Prerequisite | Fall, Junior Year depending on prerequisites |
| ME4433 (3) Heat Transfer | Prerequisite | Spring, Junior Year depending on prerequisites |
| NCPE Technical Elective (3) | NCPE Core Course | Junior/Senior Year depending on prerequisites |
| NCPE Technical Elective (3) | NCPE Core Course | Senior Year |
| NCPE Technical Elective (3) | NCPE Core Course | Senior Year |
| NCPE Technical Elective (3) | NCPE Elective  | Junior/Senior Year depending on prerequisites |

# Approved Technical Electives for Nuclear Power Engineering Minor

**NPE Core Courses:**

ME 4663 Renewable and Nuclear Power Engineering (3)

ME 4953 Nuclear Reactor Theory and Design (3)

ME 4963 Nuclear Reactor Systems (3)

NS 4570 Nuclear Facility Safety (3)

**NPE Approved Elective Courses:**

ME 3249 Engineering Practice (3) [in the nuclear power, or nuclear related industry]

ME 4273 Stress Analysis in Mechanical Engineering (3)

ME 4733 Deformation and Fracture of Engineering Materials (3)

ME 4763 Fundamentals of Corrosion Science and Engineering (3)

ME 4823 Interdisciplinary Fluid Dynamics: Computational Methods (3)

ME 4853 Turbomachinery (3)

ME 4933 Welding Engineering (3)

ME 4933 Pressure Vessel Design (3)

NS 3411 Fundamentals of Nuclear Radiation Science (3)

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# Application Form

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| --- | --- | --- | --- |
| **Course** | **Course Name** | **Credit Hours\*** | **In Semester** |
| ME3834 | Fluid Mechanics | 4 |  |
| ME4433 | Heat Transfer | 3 |  |
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\* 18-19 credit hours are required. You must select three technical elective courses from the approved list of NCPE Core and one from the NCPE Approved Elective Courses list.

I hereby request approval to acquire a minor in Nuclear Power Engineering from the Department of Mechanical and Industrial Engineering under the rules of the University and the College of Engineering. I understand that I am responsible to seek advising from the Department of Mechanical and Industrial Engineering and my advisor for all matters related to this minor program.

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| --- | --- | --- | --- |
| Student Name (PRINT) |  | Major |  |
| LSU ID# |  | E-mail |  |
| Student Signature |  | Date |  |
| **PLEASE RETURN THE ORIGINAL COPY OF THE DOCUMENT TO THE MIE OFFICE (PFTH 2508)** |
| Advisor Signature |  | Date |  |
| Advisor Contact Info |  |
| **AFTER THE DEPARTMENT APPOINTS AN ADVISOR FOR YOU, YOU WILL BE GIVEN A COPY OF THIS FORM WITH THE ADVISOR’S SIGNATURE AND CONTACT INFORMATION.** |