Exam Offering for the 2018-2019 Academic Year:

Fall: Thursday, August 16, 2018  
Spring: Friday, January 11, 2019

Location: FEC 2550

PLEASE COMPLETE THE ELECTRONIC REPORT OF EXAM FORM 10 BUSINESS DAYS PRIOR TO EXAM DAY.

Exam Overview:

The NECE (informally known as the “comps”) is taken by post-Masters students who have completed their doctoral course work and intend to advance to candidacy for the PhD in Nuclear Engineering. It is a one-day written examination covering the fundamentals of nuclear engineering.

This exam consists of two 4-hour sessions. The first part of the exam is from 8:00 a.m. to 12:00 p.m. and the second is from 1:00 p.m. to 5:00 p.m. Students may select four courses on which to be examined from the approved course list on pg. 2 of this document. The NECE may also contain an oral component as determined by the Committee on Studies based on results of the written examination.

If you are intending to advance to candidacy in either fall or spring you must have the following items completed in the semester in which you intend to advance: 1) your Announcement of Examination Form; 2) your NECE passed and confirmed by your committee’s completion of the Report of Exam Form; 3) your Advancement to Candidacy Form completed then approved by the Office of Graduate Studies (OGS). Instructions for completing your Advancement to Candidacy and Appointment of Dissertation Forms can be found by visiting the OGS website [http://grad.unm.edu/degree-completion/graduation-requirements/phd.html](http://grad.unm.edu/degree-completion/graduation-requirements/phd.html).

Procedure for scheduling the exam:

The following procedure should be completed no later than July 30th, 2018 for fall advancement and no later than November 30th, 2018 for spring advancement. Please meet these deadlines. OGS policy states that the Announcement of Examination Form must be submitted to OGS at least two weeks prior to the date of the examination. Please complete the following procedure in this order:

1. Students should meet with their Research Advisor to discuss and agree on the four courses on which to be examined. Bring both a copy of the NECE Proposal Form to this meeting. Both you and your Research Advisor will complete this form together. The Announcement of Exam form is electronic and is completed by the student online.

2. Students will then schedule a meeting with the Nuclear Engineering Graduate Advisor to review the course choices, the committee selected, and make the final approvals to these forms. On the Announcement of Examination Form, complete as much information as you know before you meet with the Graduate Advisor. When asked for information about your examination committee, list the Graduate Advisor as Chair and each of the examining faculty of the courses on which your exam material will be based. The Graduate Advisor will then make the final approvals and forward these forms to the Program Coordinator for processing with OGS.

Important: under no circumstances should the student contact/approach professors other than the Research Advisor or the Graduate Advisor regarding the exam.
Nuclear Engineering Comprehensive Exam (NECE) Proposal Form

Name: ___________________________________________ Date: ____________________

Research Advisor: ___________________________________________________________________

Please Circle Exam Semester/Year: Fall 2018 Spring 2019

Select four courses on which you would like to be examined from the list below:

- NE 410 Nuclear Reactor Theory I
- NE 462 Monte Carlo Techniques for Nuclear Systems
- NE 485 Fusion Technology
- NE 511 Nuclear Reactor Theory II
- *NE 515 Special Topics (list specific course below)
- NE 524 Interactions of Radiation with Matter
- NE 525 Methods Analysis in NE
- NE 528 External Dosimetry
- NE 529 Internal Dosimetry
- NE 534 Plasma Physics
- NE 439/539 Radioactive Waste Mgt.
- NE 560 Nuclear Reactor Kinetics
- NE 464/546 Thermal-Hydraulic Nuclear Systems
- NE 468/568 Intro Space Nuclear Power
- NE 570 Nuclear Fuel and Materials
- NE 610 Advanced Nuclear Reactor Theory

*NE 515- list specific courses you plan to use: __________________________________________

Proposed Courses Approved:

_________________________________________ Date __________________
Signature, Graduate Advisor

Examination Committee

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_________________________________________
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