

Tentative Course Schedule

Date	Topic	Reading	Event
1/19/2011	Introduction		PQ01
1/21/2011	Quiz Review & Math Review		
1/24/2011	Statics Review & Delayed Neutrons	O&N: 1-19	
1/26/2011	Heuristic PRKE	O&N: 21-28	
1/28/2011	PRKE from Diffusion Theory	O&N: 28-35	PS01
1/31/2011	PRKE Overview & Small Time Transients	O&N: 87-97	
2/02/2011	Snow Day		
2/04/2011	PRKE to One-Group Models	O&N: 87-97	
2/07/2011	Inhour Equation & Asymptotic Behavior	O&N: 97-111	PS02
2/09/2011	Prompt Jump Approximation	O&N: 111-121	
2/11/2011	Delayed Neutron Kernel	In-Class Notes	
2/14/2011	Numerical Methods for IVPs I	In-Class Notes	
2/16/2011	Numerical Methods for IVPs II	In-Class Notes	PS03
2/18/2011	Numerical Methods for IVPs III	In-Class Notes	
2/21/2011	Numerical Methods for IVPs IV	In-Class Notes	
2/23/2011	Numerical Methods for IVPs V	In-Class Notes	
2/25/2011	Project Progress Day		PP01
2/28/2011	Section One Review		
3/02/2011	Quiz		Q01
3/04/2011	Quiz Review		
3/07/2011	Heat Transfer Review	In-Class Notes	
3/09/2011	Fluid Mechanics Review	In-Class Notes	
3/11/2011	Prerequisite Quiz		PQ02
3/21/2011	Linear PRKE Transfer Function		
3/23/2011	Two Temperature Transfer Function		
3/25/2011	Heat Transfer in a Fuel Rod		
3/28/2011	Heat Transfer in a PWR Fuel Channel		
3/30/2011	Linking Thermal-Fluids to PRKE		
4/01/2011	2D Heat Transfer in a Fuel Rod		
4/04/2011	Examples		PS04
4/06/2011			
4/08/2011			PS05
4/11/2011	Accidents I - Regulatory Framework		
4/13/2011	Accidents II - Chernobyl		
4/15/2011	Accidents III - Three Mile Island		
4/18/2011			
4/20/2011	Project Work Day		
4/22/2011	Project Progress Day		PP02

Date	Topic	Reading	Event
4/25/2011	Review		PS06
4/27/2011	Quiz		Q02
4/29/2011	Quiz Review		
5/02/2011	Course Review/Course Evaluation		PW01
5/04/2011	Final Presentations		PP03
5/06/2011	Final Presentations		PP03

Key

O&N	Ott & Neuhold: Introductory Nuclear Reactor Dynamics
PS0x	Problem Set Number x
PP0x	Project Presentation x
PQ0x	Prerequisite Quiz x
PW0x	Project Write-up x
Q0x	Quiz x

Important Dates

1/19/2011	Prerequisite Quiz 01
1/28/2011	Problem Set 01 Due
2/07/2011	Problem Set 02 Due
2/16/2011	Problem Set 03 Due
2/25/2011	Project Presentation 01
3/02/2011	Quiz 01
3/11/2011	Prerequisite Quiz 02
4/04/2011	Problem Set 04 Due
4/06/2011	Problem Set 05 Due
4/22/2011	Project Presentation 02
4/25/2011	Problem Set 06 Due
4/27/2011	Quiz 02
5/02/2011	Project Write-up Due
5/04/2011	Project Presentation 03
5/06/2011	Project Presentation 03