

Energy Generation Operations  
Course Schedule

Term	Course #	Course Name Theory/Lab	Sem. Credits
<b>Semester 1</b>			
1	BSAD1010	Microsoft Applications 45/0	3.0
1	ENER1100*	Energy Industry Fundamentals 45/0	3.0
1	ENER1110*	Operator Safety Take with Lab 38/23	3.0
1	ENER1235	Technical Diagrams 30/0	2.0
1	MATH1050*	Math Course 45/0	3.0
1	PHYS1150*	Descriptive Physics Take with Lab 45/30 (Req. for NUCP)	4.0
		<b>Total 1st Semester Credits</b>	<b>18.0</b>
<b>Semester 2</b>			
2	ENER1115*	Mech. & Fluid Fundamentals Take with Lab 45/23	3.5
2	ENER1210*	Electrical Power Theory Take with Lab 53/23	4.0
2	ENER1255*	Instrumentation & Control Syst. Take with Lab 45/45	4.0
2	ENER2102*	Nuclear Energy 30/0	2.0
2	ENER2530*	Process Plant Chemistry 30/0	2.0
		<b>Total 2nd Semester Credits</b>	<b>15.5</b>
<b>SUMMER</b>	ENER1900*	Internships (Taken between semesters 2-3 OR 3-4)	<b>3.0</b>
<b>Semester 3</b>			
3	ENER1220*	Process Dynamics Take with Lab 38/23	3.0
3	ENER1250	Emission Controls 30/0	2.0
3	ENER2100*	Motor Controls Take with Lab 38/23	3.0
3	ENER2120*	Boilers and Steam Turbines 45/0	3.0
3	ENER2130	Green Energy 45/0	3.0
		<b>Total 3rd Semester Credits</b>	<b>14.0</b>
<b>Semester 4</b>			
4	ACFS2020	Career Development 25/0	1.0
4	ENGL1110	Business Communications 45/0	3.0
4	SPCH	Any Speech Class 45/0	3.0
		<b>Total Required Core Credits</b>	<b>57.5</b>
<b>Plus ELECTIVES (Take minimum of 10 credits from these)</b>			
4	ENER2135*	Atomic Structures 30/0	2.0
4	ENER2140	Electric Trans. & Distribution Take with Lab 23/23	2.0
4	ENER2205*	Nuclear Power Plant Layout 45/0	3.0
4	ENER2220*	Reactor Plant Material 30/0	2.0
4	ENER2230*	Radiation Detection & Protection 23/23	2.0
4	ENER2240*	Reactor Safety 30/0	2.0
4	ENER2300	Coal Plant Operations Take with Lab 38/23	3.0
4	ENER2400	Gas Turbines & HRSG Systems Take with Lab 23/23	2.0
4	ENER2500	Biofuels Process Fundamentals 45/0	3.0
4	ENER2520	Industrial Microbiology 23/23	2.0
		<b>Total Credits (minimum)</b>	<b>67.5</b>
<b>Additional Electives (Not required for degree)</b>			
4	ENER2999	Special Project	1.0-3.0
	*	Must achieve a "B" or higher to earn the NUCP Certificate	