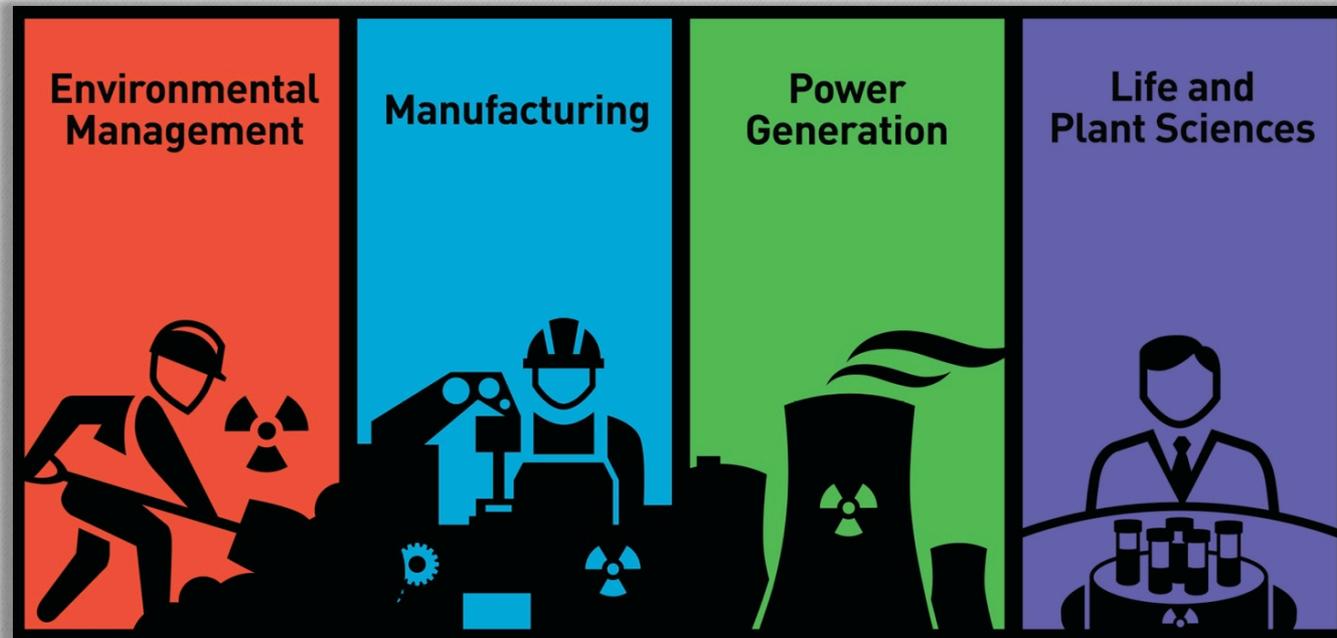


Regional Center for Nuclear Education & Training

Guided Pathway Guidance



RCNET | www.GoNuke.org

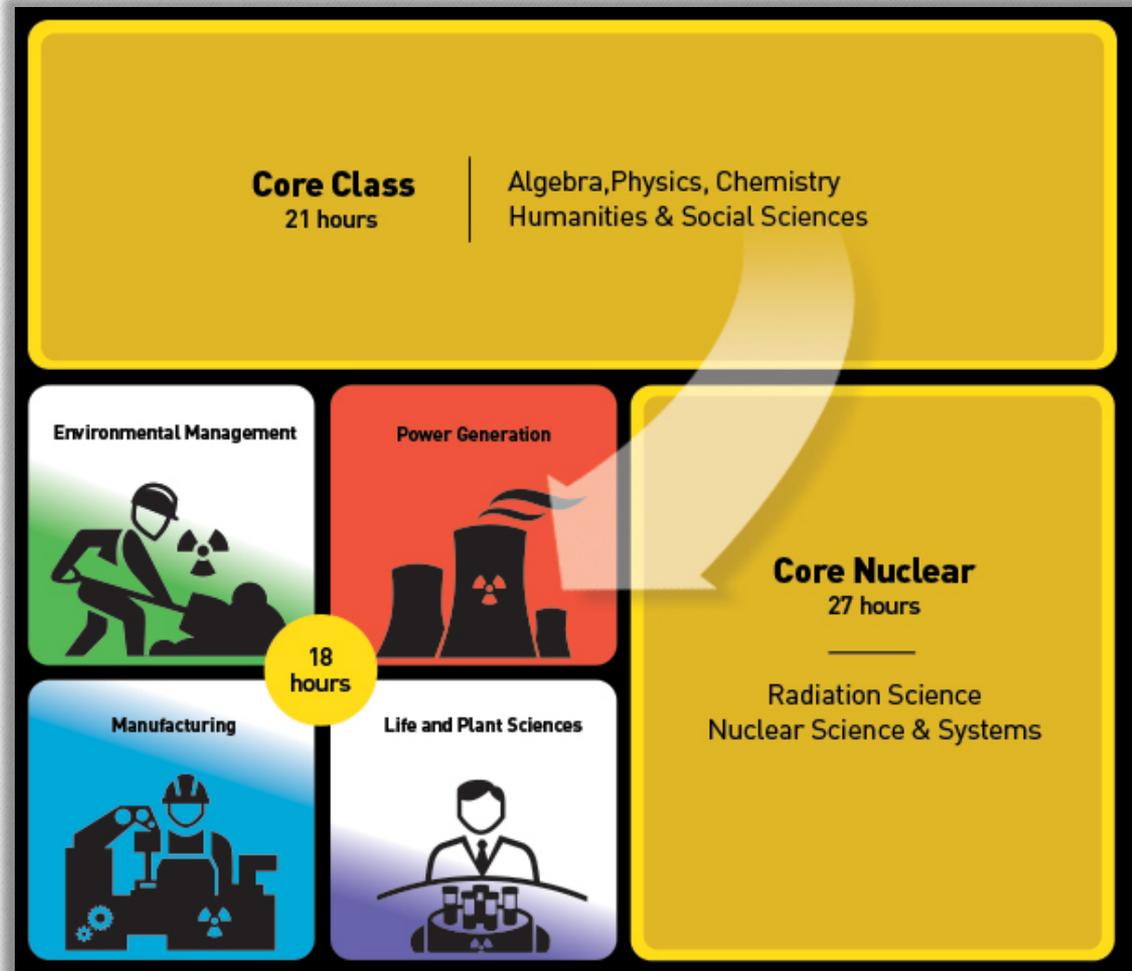


RCNET Guided Pathway Suggestions

- 1. Run as Cohort matching cohort size to industry demand determined by 2-3 key industry partners the previous spring**
- 2. Run program with a set 18-month schedule (every T/Th from 8-2PM) so working students can align with their employer**
- 3. Common 1st year courses to have maintain high enrollment portion**
- 4. Embedded Internship with industry during summer to cover key ACAD and academic LOs**
- 5. Embedded Certifications (OSHA, HazWhopper, NCCER Rigging & Lifting)**

RCNET Guided Pathway Model

1. Cohort
2. Guided Pathway
3. Common 1st year
4. Embedded Internship
5. Embedded Certifications



Sample of Common First Year



INDIAN RIVER STATE COLLEGE

PROGRAM: AS - Electrical Power Technology (ICE Specialization)

Meta Major: Science, Technology, Engineering and Mathematics

Guided Pathway

20850 Credit Hours: 68

First Semester				
Check when complete	Course Number	Title	Credit Hours	Prerequisite
<input checked="" type="checkbox"/>	PHY 1020	Principles of Physics ✓	3	MAT1033
<input checked="" type="checkbox"/>	EET 1215C	Introduction to Electronics ✓	3	
<input checked="" type="checkbox"/>	MAC 1105	College Algebra ✓	3	MAT1033
<input checked="" type="checkbox"/>	EET 1015C	DC Circuits (A) ✓	3	MAC1105, PHY1020
<input checked="" type="checkbox"/>	EET 1025C	AC Circuits (B) ✓	3	EET1015C
<input type="checkbox"/>				
<input type="checkbox"/>	Total Semester Credit Hours		15	

Second Semester				
Check when complete	Course Number	Title	Credit Hours	Prerequisite
<input checked="" type="checkbox"/>	EET 2141C	Electronic Devices I ✓	3	EET1025C
<input checked="" type="checkbox"/>	ETP 1230	Power Plant Systems ✓	3	
<input checked="" type="checkbox"/>	CHM 1020	Introduction to Chemistry ✓	3	
<input checked="" type="checkbox"/>	ENC 1101	English Composition I ✓	3	
<input checked="" type="checkbox"/>	POS 1041	American Government ✓	3	
<input type="checkbox"/>				
<input type="checkbox"/>	Total Semester Credit Hours		15	

Sample of 2nd Year – Environmental Management Courses

Summer Internship

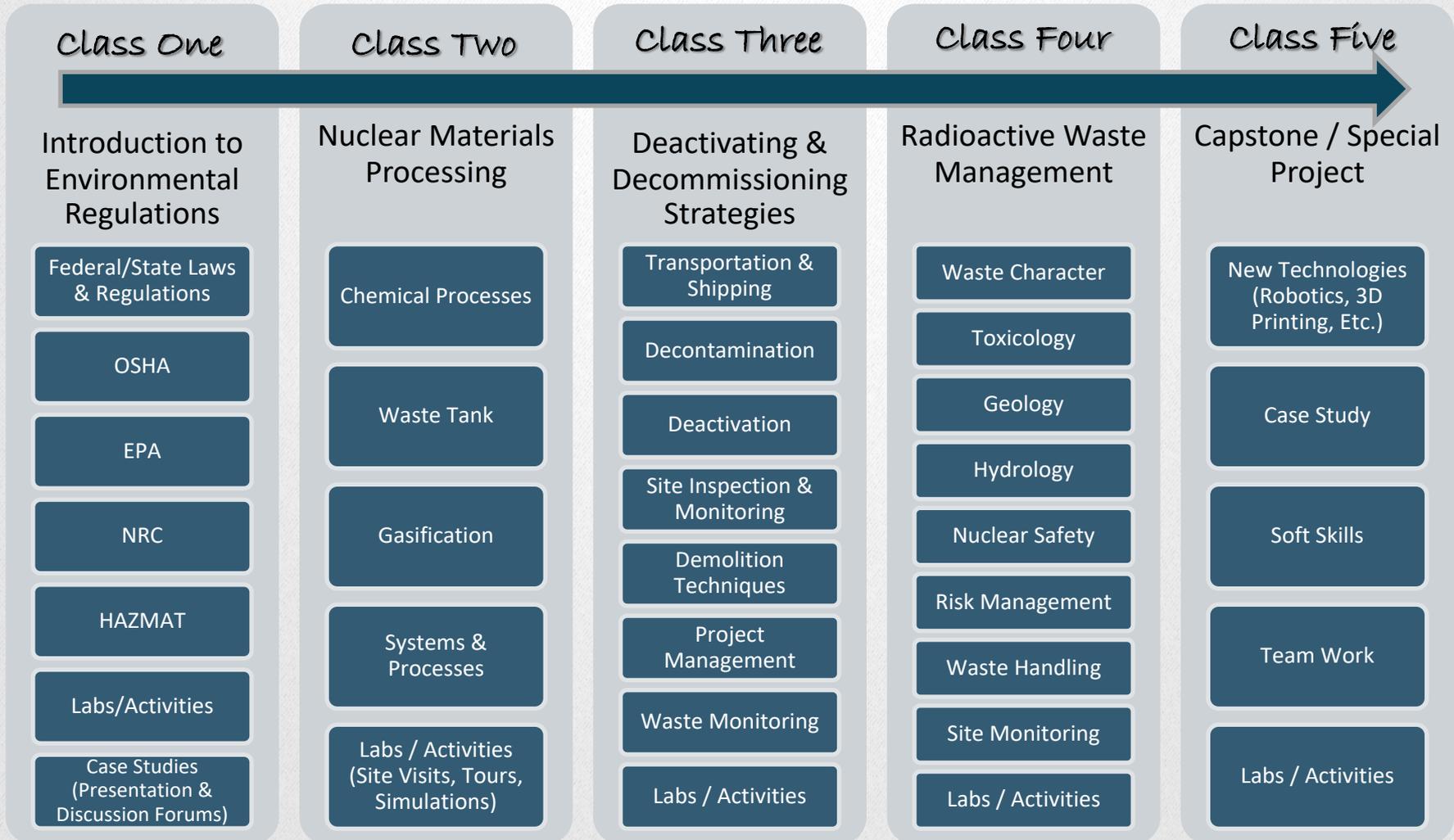
- DOE Partnership

Second Year Classes

(15 Credit Hours)

- Class 1: Introduction to Environmental Regulations
- Class 2: Nuclear Materials Processing
- Class 3: Deactivating & Decommissioning Strategies
- Class 4: Radioactive Waste Management
- Class 5: Capstone / Special Project

Environmental Management Courses





INDIAN RIVER STATE COLLEGE

PROGRAM: AS - Electrical Power Technology (ICE Specialization)

Meta Major: Science, Technology, Engineering and Mathematics

Guided Pathway

20850 Credit Hours: 68

First Semester				
Check when complete	Course Number	Title	Credit Hours	Prerequisite
<input checked="" type="checkbox"/>	PHY 1020	Principles of Physics ✓	3	MAT1033
<input checked="" type="checkbox"/>	EET 1215C	Introduction to Electronics ✓	3	
<input checked="" type="checkbox"/>	MAC 1105	College Algebra ✓	3	MAT1033
<input checked="" type="checkbox"/>	EET 1015C	DC Circuits (A) ✓	3	MAC1105, PHY1020
<input checked="" type="checkbox"/>	EET 1025C	AC Circuits (B) ✓	3	EET1015C
<input type="checkbox"/>				
<input type="checkbox"/>	Total Semester Credit Hours		15	

Second Semester				
Check when complete	Course Number	Title	Credit Hours	Prerequisite
<input checked="" type="checkbox"/>	EET 2141C	Electronic Devices I ✓	3	EET1025C
<input checked="" type="checkbox"/>	ETP 1230	Power Plant Systems ✓	3	
<input checked="" type="checkbox"/>	CHM 1020	Introduction to Chemistry ✓	3	
<input checked="" type="checkbox"/>	ENC 1101	English Composition I ✓	3	
<input checked="" type="checkbox"/>	POS 1041	American Government ✓	3	
<input type="checkbox"/>				
<input type="checkbox"/>	Total Semester Credit Hours		15	

Summer Semester				
Check when complete	Course Number	Title	Credit Hours	Prerequisite
<input checked="" type="checkbox"/>	ETI 1701	Industrial Safety ✓	3	
<input checked="" type="checkbox"/>	ETI 1805C	Rigging and Lifting ✓	3	
<input checked="" type="checkbox"/>	ETP 2930	Professional Internship for Maintenance Technicians ✓	2	ETP2941, EET1025C
<input type="checkbox"/>		Special Topics in Electrical Power Tech		
<input type="checkbox"/>	Total Semester Credit Hours		8	

Changyut 3/29/16

Third Semester

Check when complete	Course Number	Title	Credit Hours	Prerequisite
<input checked="" type="checkbox"/>	EET 2515C	Motors and Generators ✓	3	EET1025C
<input checked="" type="checkbox"/>	ETS 2542	Programmable Logic Controllers I ✓	3	EET2141C
<input checked="" type="checkbox"/>	ETS 2544	Programmable Logic Controllers II ✓	3	EET1025C, ETS2542
<input checked="" type="checkbox"/>	ETS 2520	Process Measurement Fundamentals ✓	3	EET1025C
<input checked="" type="checkbox"/>	EET 1180C	Troubleshooting and Repair ✓	3	EET2141C
<input type="checkbox"/>				
<input type="checkbox"/>	Total Semester Credit Hours		15	

Fourth Semester

Check when complete	Course Number	Title	Credit Hours	Prerequisite
<input checked="" type="checkbox"/>	EET 2527C	Motor Starters, Controllers, and Breakers ✓	3	EET1025C
<input checked="" type="checkbox"/>	EET 2547C	Transformers and Power Distribution ✓	3	EET1025C
<input checked="" type="checkbox"/>	ETS 2530	Process Control Technology ✓	3	EET1025C
<input checked="" type="checkbox"/>	ETI 2315C	Fluid and Pneumatic Instrumentation ✓	3	MAC1105
<input checked="" type="checkbox"/>	PHI1103	Critical and Creative Thinking ✓	3	
<input type="checkbox"/>				
<input type="checkbox"/>	Total Semester Credit Hours		15	

Summer Semester

Check when complete	Course Number	Title	Credit Hours	Prerequisite
<input type="checkbox"/>		N/A		
<input type="checkbox"/>				
<input type="checkbox"/>	Total Semester Credit Hours		0	

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INDIAN RIVER STATE COLLEGE
PROGRAM AS-Electrical Power Technology (Mechanical specialization)
Meta Major: Science, Technology, Engineering and Mathematics
Guided Pathway
20850 Credit Hours 68

First Semester				
Check when complete	Course Number	Title	Credit Hours	Prerequisite
<input type="checkbox"/>	EET1015C	DC Circuits ✓	3	Pre/coreq: MAC1105, PHY1020
<input type="checkbox"/>	MAC1105	College Algebra ✓	3	MAT1033 ("C" or higher)
<input type="checkbox"/>	PHY1020	Principles of Physics ✓	3	MAT1033
<input type="checkbox"/>	EET1215C	Introduction to Electronics ✓	3	
<input type="checkbox"/>	EET1025C	AC Circuits ✓	3	EET1015C
<input type="checkbox"/>				
Total Semester Credit Hours			15	

Second Semester				
Check when complete	Course Number	Title	Credit Hours	Prerequisite
<input type="checkbox"/>	EET2141C	Electronic Devices I ✓	3	
<input type="checkbox"/>	ETP1230	Power Plant Systems ✓	3	
<input type="checkbox"/>	CHM1020	Introduction to Chemistry ✓	3	
<input type="checkbox"/>	ENC1101	English Composition I ✓	3	
<input type="checkbox"/>	POS1041	American Government ✓	3	
<input type="checkbox"/>				
Total Semester Credit Hours			15	

Summer (Third) Semester				
Check when complete	Course Number	Title	Credit Hours	Prerequisite
<input type="checkbox"/>	ETI1701	Industrial Safety ✓	3	
<input type="checkbox"/>	ETP2930	Special Topics in EPT ✓	2	
<input type="checkbox"/>	ETI1805C	Introduction to Rigging and Lifting ✓	3	ETI1000, ETI1701
<input type="checkbox"/>				
Total Semester Credit Hours			8	

Fourth Semester				
Check when complete	Course Number	Title	Credit Hours	Prerequisite
<input type="checkbox"/>	ETI2425C	Metallurgical Properties and Dynamics ✓	3	MAC1105, PHY1020
<input type="checkbox"/>	ETP2231C	Power Plant Machines and Components I ✓	3	ETP1230
<input type="checkbox"/>	ETM2315C	Pneumatics & Hydraulics ✓	3	MAC1105
<input type="checkbox"/>	PHI1103	Critical and Creative Thinking ✓	3	
<input type="checkbox"/>	SPC1300	Interpersonal Communication ✓	3	
<input type="checkbox"/>				
Total Semester Credit Hours			15	

Chauhan 3/27/16

Fifth Semester

Check when complete	Course Number	Title	Credit Hours	Prerequisite
<input type="checkbox"/>	CGS1100	Introduction to Computer Applications for Business ✓	3	
<input type="checkbox"/>	ETP2232C	Power Plant Machines and Components II ✓	3	ETP1701, ETP2231C
<input type="checkbox"/>	ETI2408C	Welding Processes ✓	3	ETI1000, ETI1701
<input type="checkbox"/>	ETI2451C	Mechanical Maintenance for Power Plants ✓	3	ETP2231C
<input type="checkbox"/>	ETM2310	Fluid Mechanics ✓	3	
<input type="checkbox"/>				
<input type="checkbox"/>	Total Semester Credit Hours		15	

Summer (Sixth) Semester

Check when complete	Course Number	Title	Credit Hours	Prerequisite
<input type="checkbox"/>				
<input type="checkbox"/>	Total Semester Credit Hours		0	



INDIAN RIVER STATE COLLEGE

PROGRAM AS - Electrical Power Technology (Radiation Protection Specialization)

Meta Major: Science, Technology, Engineering and Mathematics

Guided Pathway

20850 Credit Hours 68

First Semester				
Check when complete	Course Number	Title	Credit Hours	Prerequisite
<input type="checkbox"/>	EET1015C	DC Circuits ✓	3	Pre/coreq: MAC1105, PHY1020
<input type="checkbox"/>	EET1025C	AC Circuits ✓	3	Pre/coreq: EET1015C
<input type="checkbox"/>	MAC1105	College Algebra ✓	3	MAT1033 ("C" or higher)
<input type="checkbox"/>	PHY1020	Principles of Physics ✓	3	MAT1033
<input type="checkbox"/>	CHM1045/L	General Chemistry I w/Lab ✓	4	
<input type="checkbox"/>				
Total Semester Credit Hours			16	

Second Semester				
Check when complete	Course Number	Title	Credit Hours	Prerequisite
<input type="checkbox"/>	EET2141C	Electronic Devices I ✓	3	EET1025C
<input type="checkbox"/>	ETP1230	Power Plant Systems ✓	3	
<input type="checkbox"/>	EET1215C	Introduction to Electronics ✓	3	
<input type="checkbox"/>	ETP2210	Radiation Fundamentals ✓	3	
<input type="checkbox"/>	CHM1046/L	General Chemistry II w/Lab ✓	4	CHM1045/L
<input type="checkbox"/>				
Total Semester Credit Hours			16	

Summer (Third) Semester				
Check when complete	Course Number	Title	Credit Hours	Prerequisite
<input type="checkbox"/>	ETI1701	Industrial Safety ✓	3	
<input type="checkbox"/>	ETI1000	Industrial Plant Tools and Equipment ✓	3	
<input type="checkbox"/>	POS1041	American Government ✓	3	
<input type="checkbox"/>	ETP2211	Radiation Instrumentation ✓	3	
<input type="checkbox"/>				
Total Semester Credit Hours			12	

Adnanjit 3/29/15

Fourth Semester				
Check when complete	Course Number	Title	Credit Hours	Prerequisite
<input type="checkbox"/>	CGS1100	Intro to Computer Applications	3	✓
<input type="checkbox"/>	ENC1101	English Composition I	3	✓
<input type="checkbox"/>	ETP2212	Radiation Detection Principles	3	✓
<input type="checkbox"/>	ETP2213	Radiological Safety and Protection	3	✓
<input type="checkbox"/>				
Total Semester Credit Hours			12	

Fifth Semester				
Check when complete	Course Number	Title	Credit Hours	Prerequisite
<input type="checkbox"/>	ETP2219	Radiation Protection/Capstone Project	3	✓ CHM1020, ETP2210, ETP2211, ETP2212, ETP2213
<input type="checkbox"/>	ETP2930	Special Topics in Electrical Power Technology	3	✓
<input type="checkbox"/>	SPC1300	Interpersonal Communications	3	
<input type="checkbox"/>	PHI1103	Critical and Creative Thinking	3	✓
<input type="checkbox"/>				
Total Semester Credit Hours			12	

Summer (Sixth) Semester				
Check when complete	Course Number	Title	Credit Hours	Prerequisite
<input type="checkbox"/>				
Total Semester Credit Hours			0	