

SEQUENCE OF CLASSES

FALL SEMESTER I

CIS 110
EGR 115
ENG 111
ISC 112
MAT 121
NUC 110

FALL SEMESTER II

ENG 114
HUM 115
MEC 267
PHY 132

SPRING SEMESTER I

ELC 131
ISC 121
MAT 122
MEC 265
NUC 120

SPRING SEMESTER II

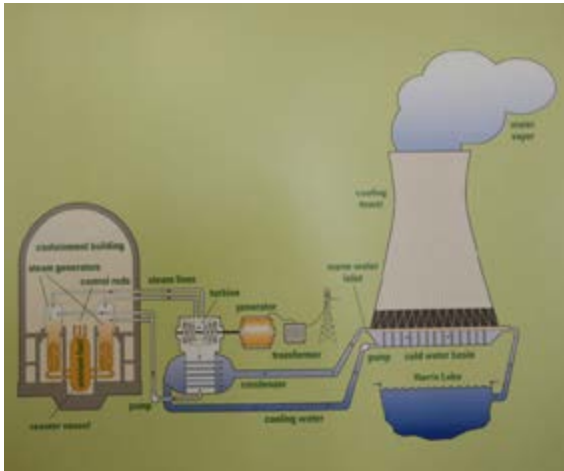
WBL 111

SUMMER SEMESTER I

ELC 213
PHY 131
WLD 112

SUMMER SEMESTER II

ISC 130
NUC 130
Soc/Behavioral Sci. Elec.
WLD 143



Nuclear Technology
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NORTH CAMPUS
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CAPE FEAR COMMUNITY COLLEGE

NUCLEAR TECHNOLOGY

Associate in Applied Science



CAPE FEAR
COMMUNITY
COLLEGE



North Campus

NUCLEAR TECHNOLOGY ASSOCIATE IN APPLIED SCIENCE

The Nuclear Technology program prepares individuals to become qualified reactor field technicians who are employed by licensed nuclear reactor facilities.

FACILITIES

All Nuclear Technology academic courses are taught at the CFCC North Campus. The six semester track begins each Fall Semester. The program includes on the job training as a co-op at a nuclear facility. GE-Hitachi and Duke Energy are two possibilities for the co-op semester. Positions with GE-Hitachi offers students the opportunity to travel to various commercial nuclear power plants to participate in refueling outages, while positions with Duke Energy will be “in plant” positions.

EMPLOYMENT OPPORTUNITIES

Graduates are typically employed in entry level positions with nuclear plant maintenance contractors or electric utilities. Starting pay is typically between \$15 and \$20 per hour. There is significant overtime potential as well as expense-paid travel to nuclear power stations both inside the US and internationally. Other opportunities include transferring to a 4-year Bachelor of Science program and the nuclear Navy (submarines and aircraft carriers).

Required Classes

Associate Degree Program

I. General Education Courses		Semester Credit Hour
ENG 111	Writing and Inquiry	3
ENG 114	Professional Research and Reporting	3
HUM 115	Critical Thinking	3
MAT 121	Algebra / Trigonometry I	3
Social / Behavioral Science Elective (Select one from the following)		
ECO 151	Survey of Economics	3
POL 110	Introduction to Political Science	3
PSY 150	General Psychology	3
SOC 210	Introduction to Sociology	3
II. Major Courses		
CIS 110	Introduction to Computers	3
EGR 115	Introduction to Technology	3
ELC 131	Circuit Analysis I	4
ELC 213	Instrumentation	4
ISC 112	Industrial Safety	2
ISC 121	Environmental Health & Safety	3
ISC 130	Intro to Quality Control	3
MAT 122	Algebra / Trigonometry II	3
MEC 265	Fluid Mechanics	3
MEC 267	Thermal Systems	3
NUC 110	Nuclear Reactor Systems	3
NUC 120	Nuclear Reactor Theory	4
NUC 130	Applied NDE-Nuclear	2
PHY 131	Physics - Mechanics	4
PHY 132	Physics - Electricity & Magnetism	4
WBL 111	Work-Based Learning I	1
WLD 112	Basic Welding Processes	2
WLD 143	Welding Metallurgy	2
Total Credits		68



Note: This program includes a work-based learning course at a nuclear power plant that requires students to meet Federal regulations for fitness for duty and access authorization. Prior to registering for WBL 111 or 112, students must complete a background check, random drug screen, and psychological assessment. The college has agreements with the service providers of this process and students will be charged a fee that totals less than \$200. Contact the Lead Instructor of Nuclear Technology for further details.