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NORTH CAROLINA COMMUNITY COLLEGE SYSTEM Dr. R. Scott Ralls, President

July 23, 2012

MEMORANDUM

- TO: Presidents Chief Academic Officers
- FROM: Sharon E. Morrissey Senior Vice President and Chief Academic Officer
- SUBJECT: State Board Action on July 20, 2012

On July 20, 2012, the State Board of Community Colleges approved the requested revisions to the following curriculum standards:

Barbering (Diploma) (D55110) Electric Lineman Technology (A35210)* Electric Utility Substation and Relay Technology (A50510) Nuclear Technology (A50460)

Please be aware that you must implement the revised standard no later than one year after the effective term. You must update your college's electronic programs of study and receive approval from the System Office prior to implementation of the revised program.

In addition, the State Board of Community Colleges approved curriculum courses and a curriculum standard for the following new curriculum program:

Mammography (Certificate) (C45830)

The State Board of Community Colleges also approved a Tier I funding classification for the following curriculum prefixes:

AET – Aviation Electronics Technology MAM – Mammography

*Please note that the curriculum code for this program has changed to A35230 to accommodate the revised curriculum title.

MAILING ADDRESS: 5016 MAIL SERVICE CENTER ~ RALEIGH, NC 27699-5016

Presidents Chief Academic Officers Page 2 July 23, 2012

The curriculum standard and new courses are attached for your convenience. You may view all curriculum standards, courses, and curriculum Tier funding classifications by visiting the Academic Programs website at:

http://www.nccommunitycolleges.edu/Programs/index.html

If you have any questions concerning the State Board action items, please contact Ms. Jennifer Frazelle at (919) 807-7120 or <u>frazellej@nccommunitycolleges.edu</u>.

SEM/JF/gr Attachments c: Dr. Van Wilson Ms. Jennifer Haygood Ms. Elizabeth Self Ms. Jennifer Frazelle Program Coordinators

> CC12-022 Email

Effective Term Fall 2012 [2012*03]

A55110

Code

Concentration

(not applicable)

Curriculum Description

The Barbering Curriculum is designed to provide competency-based knowledge, scientific/artistic principles and hands-on fundamentals associated with the barber industry. The curriculum also provides a simulated environment that enables students to develop manipulative skills.

Course work includes instruction in all phases of professional barbering, hair design, chemical processes, skin care, nail care, multi-cultural practices, business/computer principles, product knowledge and other selected topics.

Graduates should qualify to sit for the State Board of Examiners. Upon successfully passing the State Board exam, graduates will be issued a license. Employment is available in barbershops and related businesses.

Curriculum Requirements*

[for associate degree, diploma, and certificate programs in accordance with 23 NCAC 02E.0204 (3)]

- I. General Education. Degree programs must contain a minimum of 15 semester hours including at least one course from each of the following areas: humanities/fine arts, social/behavioral sciences, and natural sciences/mathematics. Degree programs must contain a minimum of 6 semester hours of communications. Diploma programs must contain a minimum of 6 semester hours must be in communications. General education is optional in certificate programs.
- **II. Major Hours**. AAS, diploma, and certificate programs must include courses which offer specific job knowledge and skills. Work experience, including cooperative education, practicums, and internships, may be included in associate in applied science degrees up to a maximum of 8 semester hours of credit; in diploma programs up to a maximum of 4 semester hours of credit; and in certificate programs up to a maximum of 2 semester hours of credit. (*See second page for additional information.*)
- III. Other Required Hours. A college may include courses to meet graduation or local employer requirements in a certificate, diploma, or associate in applied science program. These curriculum courses shall be selected from the Combined Course Library and must be approved by the System Office prior to implementation. Restricted, unique, or free elective courses may not be included as other required hours.

AAS	Diploma	Certificate
15	6	0
49	30	12
0-7	0-4	0-1
64-76	36-48	12-18
	15 49 0-7	15 6 49 30 0-7 0-4

Major Hours

*Within the degree program, the institution shall include opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and basic use of computers.

- A. **Core.** The subject/course core is comprised of subject areas and/or specific courses which are required for each curriculum program. A diploma program offered under an approved AAS program standard or a certificate which is the highest credential level awarded under an approved AAS program standard must include a minimum of 12 semester hours credit derived from the subject/course core of the AAS program.
- **B. Concentration** (*if applicable*). A concentration of study must include a minimum of 12 semester hours credit from required subjects and/or courses. The majority of the course credit hours are unique to the concentration. The required subjects and/or courses that make up the concentration of study are in addition to the required subject/course core.
- **C. Other Major Hours.** Other major hours must be selected from prefixes listed on the curriculum standard. A maximum of 9 semester hours of credit may be selected from any prefix listed, with the exception of prefixes listed in the core or concentration. Work experience, including cooperative education, practicums, and internships, may be included in associate in applied science degrees up to a maximum of 8 semester hours of credit; in diploma programs up to a maximum of 4 semester hours of credit; and in certificate programs up to a maximum of 2 semester hours of credit.

	Barbering (A55110)**			
		AAS	Diploma	Certificate
Minimum Major Hours Required		49 SHC	30 SHC	12 SHC
A. CORE		43 SHC	41 SHC	41 SHC**
Courses required for the diploma and certificate a	are designated with *			
Required Courses:				
*BAR 111 Barbering Concepts I	4 SHC			
*BAR 112 Barbering Clinic I	8 SHC			
*BAR 113 Barbering Concepts II	4 SHC			
*BAR 114 Barbering Clinic II	8 SHC			
*BAR 115 Barbering Concepts III	4 SHC			
*BAR 116 Barbering Clinic III	4 SHC			
*BAR 117 Barbering Concepts IV	2 SHC			
*BAR 118 Barbering Clinic IV	7 SHC			
Required Subject Areas: None				
B. CONCENTRATION (<i>Not applicable</i>)				
C. OTHER MAJOR HOURS			0-1	NA
To be selected from the following prefixes:				
ACC, ART, BAR, BUS, CIS, COE, CSC, WEB	DRA, ETR, ISC, PSY, SPA and			
Foreign language courses (including ASL) other major hours may be included in this semester hour of credit.	0 11			
D. OTHER REQUIRED HOURS			0-1	NA

** This program is approved by the State Board of Community Colleges to exceed maximum standard hours for a certificate program. [ref. 23 NCAC 02E.0201(d)];

Effective Term Fall 2012 [2012*03]

Curriculum Program Title

Electric Line Construction Technology

A35230

Code

Concentration

(not applicable)

Curriculum Description

The Electric Line Construction Technology curriculum prepares individuals to work as electric line construction technicians in the preparation and repair of rural electrical utility service. Students will combine electrical theory with laboratory and practical applications in the course of study.

Students will be expected to master competencies such as those included in elements of electricity, overhead pole and electrical line construction, safety codes and applications, electric power system, transformer and meter installations, and exploration of underground electrical distribution.

Upon successful completion of the program, individuals will receive the Associate of Applied Science degree and will possess the necessary skills for employment in the dynamic electrical utility field.

Curriculum Requirements*

[for associate degree, diploma, and certificate programs in accordance with 23 NCAC 02E.0204 (3)]

- I. General Education. Degree programs must contain a minimum of 15 semester hours including at least one course from each of the following areas: humanities/fine arts, social/behavioral sciences, and natural sciences/mathematics. Degree programs must contain a minimum of 6 semester hours of communications. Diploma programs must contain a minimum of 6 semester hours must be in communications. General education is optional in certificate programs.
- **II. Major Hours**. AAS, diploma, and certificate programs must include courses which offer specific job knowledge and skills. Work experience, including cooperative education, practicums, and internships, may be included in associate in applied science degrees up to a maximum of 8 semester hours of credit; in diploma programs up to a maximum of 4 semester hours of credit; and in certificate programs up to a maximum of 2 semester hours of credit. (*See second page for additional information.*)
- III. Other Required Hours. A college may include courses to meet graduation or local employer requirements in a certificate, diploma, or associate in applied science program. These curriculum courses shall be selected from the Combined Course Library and must be approved by the System Office prior to implementation. Restricted, unique, or free elective courses may not be included as other required hours.

	AAS	Diploma	Certificate
Minimum General Education Hours	15	6	0
Minimum Major Hours	49	30	12
Other Required Hours	0-7	0-4	0-1
Total Semester Hours Credit (SHC)	64-76	36-48	12-18

[ref. 23 NCAC 02E.0204 (3)]

- A. Core. The subject/course core is comprised of subject areas and/or specific courses which are required for each curriculum program. A diploma program offered under an approved AAS program standard or a certificate which is the highest credential level awarded under an approved AAS program standard must include a minimum of 12 semester hours credit derived from the subject/course core of the AAS program.
- **B. Concentration** (*if applicable*). A concentration of study must include a minimum of 12 semester hours credit from required subjects and/or courses. The majority of the course credit hours are unique to the concentration. The required subjects and/or courses that make up the concentration of study are in addition to the required subject/course core.
- **C. Other Major Hours.** Other major hours must be selected from prefixes listed on the curriculum standard. A maximum of 9 semester hours of credit may be selected from any prefix listed, with the exception of prefixes listed in the core or concentration. Work experience, including cooperative education, practicums, and internships, may be included in associate in applied science degrees up to a maximum of 8 semester hours of credit; in diploma programs up to a maximum of 4 semester hours of credit; and in certificate programs up to a maximum of 2 semester hours of credit.

			AAS	Diploma	Certificate
Min	imum Major Hours Required		49 SHC	30 SHC	12 SHC
A.	CORE		29-31 SHC		
Req	uired Courses:				
-	ELC 231 Electric Power Systems	4 SHC			
	ELC 233 Energy Management	3 SHC			
	ELT 111 Intro to Electric Line Construct	2 SHC			
	ELT 112 National Elec Safety Code	3 SHC			
	ELT 114 Overhead Line Const I	2 SHC			
	ELT 115 Overhead Line Const II	2 SHC			
	ELT 116 Overhead Line Const III	2 SHC			
	ELT 117 Overhead Line Const IV	2 SHC			
	ELT 211 Underground Line Const I	2 SHC			
	ELT 212 Underground Line Const II	2 SHC			
	ELT 221 Advanced Line Const	2 SHC			
Req	uired Subject Areas:				
Basi	c Electricity. Select 3-5 SHC:				
	ELC 111 Intro to Electricity	3 SHC			
	ELC 112 DC/AC Electricity	5 SHC			
B.	CONCENTRATION (Not applicable)				
C.	OTHER MAJOR HOURS				
	To be selected from the following prefixes:				
	CIS, COE, CSC, ELC, ELT, and HEA				
	Foreign language courses (including ASL) that are approved other major hours may be included in all maximum of 3 semester hours of credit.				

Effective Term Fall 2012 [2012*03]

Curriculum Program Title

Electric Utility Substation and Relay Technology

A50510

Code

Concentration

(not applicable)

Curriculum Description

The Electric Utility Substation and Relay Technology curriculum provides the skills to maintain high voltage equipment and protective systems for the electric utility transmission system. Training in operation and maintenance of critical infrastructure associated with the transmission grid is included.

Courses are designed to develop student understanding of maintenance and troubleshooting on transmission equipment, including three phase power theory, protective relaying, power transformers, voltage regulators, capacitors, and power circuit breakers common to electric utility and numerous other industries.

Graduates should qualify for entry-level employment in electric utility, renewable energy, and industrial facilities as technicians who diagnose and service equipment and components used for electrical power transmission.

Curriculum Requirements*

[for associate degree, diploma, and certificate programs in accordance with 23 NCAC 02E.0204 (3)]

- I. General Education. Degree programs must contain a minimum of 15 semester hours including at least one course from each of the following areas: humanities/fine arts, social/behavioral sciences, and natural sciences/mathematics. Degree programs must contain a minimum of 6 semester hours of communications. Diploma programs must contain a minimum of 6 semester hours must be in communications. General education is optional in certificate programs.
- **II. Major Hours**. AAS, diploma, and certificate programs must include courses which offer specific job knowledge and skills. Work experience, including cooperative education, practicums, and internships, may be included in associate in applied science degrees up to a maximum of 8 semester hours of credit; in diploma programs up to a maximum of 4 semester hours of credit; and in certificate programs up to a maximum of 2 semester hours of credit. (*See second page for additional information.*)
- III. Other Required Hours. A college may include courses to meet graduation or local employer requirements in a certificate, diploma, or associate in applied science program. These curriculum courses shall be selected from the Combined Course Library and must be approved by the System Office prior to implementation. Restricted, unique, or free elective courses may not be included as other required hours.

	AAS	Diploma	Certificate
Minimum General Education Hours	15	6	0
Minimum Major Hours	49	30	12
Other Required Hours	0-7	0-4	0-1
Total Semester Hours Credit (SHC)	64-76	36-48	12-18

[ref. 23 NCAC 02E.0204 (3)]

- A. **Core.** The subject/course core is comprised of subject areas and/or specific courses which are required for each curriculum program. A diploma program offered under an approved AAS program standard or a certificate which is the highest credential level awarded under an approved AAS program standard must include a minimum of 12 semester hours credit derived from the subject/course core of the AAS program.
- **B. Concentration** (*if applicable*). A concentration of study must include a minimum of 12 semester hours credit from required subjects and/or courses. The majority of the course credit hours are unique to the concentration. The required subjects and/or courses that make up the concentration of study are in addition to the required subject/course core.
- **C. Other Major Hours.** Other major hours must be selected from prefixes listed on the curriculum standard. A maximum of 9 semester hours of credit may be selected from any prefix listed, with the exception of prefixes listed in the core or concentration. Work experience, including cooperative education, practicums, and internships, may be included in associate in applied science degrees up to a maximum of 8 semester hours of credit; in diploma programs up to a maximum of 4 semester hours of credit; and in certificate programs up to a maximum of 2 semester hours of credit.

			AAS	Diploma	Certificate
Min	imum Major Hours Required		49 SHC	30 SHC	12 SHC
A.	CORE		29 SHC		
Req	uired Courses:				
	CIS 110 Introduction to Computers	3 SHC			
	EUS 110 Intro to Elect Util Ind	4 SHC			
	EUS 130 Elect Util Print Reading	2 SHC			
	EUS 210 Lg High Volt Power Trans I	3 SHC			
	EUS 215 Lg High Volt Power Trans II	3 SHC			
	EUS 220 High Volt Power Cir Br	3 SHC			
	EUS 230 Elect Util Prot Rel I	3 SHC			
	EUS 235 Elect Util Prot Rel II	3 SHC			
	EUS 240 Substation Ancillary Sys	3 SHC			
	EUS 260 Cap & Case Stu in EUSRT	2 SHC			
B.	CONCENTRATION (Not applicable)				
C.	OTHER MAJOR HOURS				
	To be selected from the following prefixes:				
	BPR, CIS, COE, DFT, ELC, ELN, EUS, ISC, N	AT, and PHY			
	Foreign language courses (including ASL) that are	not designated as			
	approved other major hours may be included in all p maximum of 3 semester hours of credit.	programs up to a			

MAMMOGRAPHY

<i>Effective Term – Fall 2012 [2012*03] – SBCC 07/20/12</i> MAM 101 – Mam Proc & Image Analysis Prerequisites: None Corequisites: None This course provides the fundamentals of mammography positioning, patient ca include breast anatomy/physiology, pathology and treatment of breast disease, p mammographic procedures, and interventional procedures. Upon completion, s demonstrate competence in these areas.	atient pre	eparation	educatio/	4 pics n,
<i>Effective Term – Fall 2012 [2012*03] – SBCC 07/20/12</i> MAM 102 – Mam Instrumentation & QA Prerequisites: None Corequisites: None This course is a comprehensive study of physics, instrumentation, quality assura and digital mammography imaging systems. Topics include system component for selecting exposure factors. Upon completion, students should be able to der mammographic equipment, quality assurance, and quality control.	s, imagin	g princip	les, and g	guidelines
<i>Effective Term – Fall 2012 [2012*03] – SBCC 07/20/12</i> MAM 103 – Digital Mammography Prerequisites: None Corequisites: None This course is a comprehensive study of digital mammography. Topics include understanding image processing, display, archive, and communication technique quality, radiation dose, and quality control procedures. Upon completion, stude the concepts of digital imaging, the process to produce digital mammograms, an procedures.	es, and de	eterminin ld be able	g proper to demo	image
Effective Term – Fall 2012 [2012*03] – SBCC 07/20/12MAM 105 –Mammography Clinical EdPrerequisites:NoneCorequisites:NoneThis course provides the opportunity to apply knowledge gained from classroom clinical setting.Emphasis is placed on patient care and positioning, mammogra interventional/special examinations, image analysis, and quality control testing.be able to demonstrate successful completion of clinical objectives.	aphic pro	cedures,		
Effective Term – Fall 2012 [2012*03] – SBCC 07/20/12 MAM 109 – Mammography Capstone Prerequisites: None Corequisites: None	3	0	0	3

This course provides an overview of mammographic topics as practiced in the didactic and clinical settings. Emphasis is placed on critical thinking and integration of didactic and clinical components. Upon completion, students should be able to demonstrate the comprehensive knowledge required of an entry-level mammographer.

Effective Term Fall 2012 [2012*03]

Curriculum Program Title

Mammography (Certificate)

C45830

Code

Concentration

(not applicable)

Curriculum Description

The Mammography curriculum provides registered radiologic technologists the didactic and clinical experience necessary to become registered mammographers.

Course work includes clinical rotations to mammography facilities, breast anatomy/physiology, patient preparation/education, mammographic procedures, interventional procedures, image analysis, mammographic instrumentation, physics, quality control, and quality assurance.

Graduates will meet the Mammography Quality Standards Act initial training requirements for mammography and may be eligible to apply to take the American Registry of Radiologic Technologists (ARRT) post primary certification in Mammography.

Curriculum Requirements*

- I. General Education. Degree programs must contain a minimum of 15 semester hours including at least one course from each of the following areas: humanities/fine arts, social/behavioral sciences, and natural sciences/mathematics. Degree programs must contain a minimum of 6 semester hours of communications. Diploma programs must contain a minimum of 6 semester hours must be in communications. General education is optional in certificate programs.
- **II. Major Hours**. AAS, diploma, and certificate programs must include courses which offer specific job knowledge and skills. Work experience, including cooperative education, practicums, and internships, may be included in associate in applied science degrees up to a maximum of 8 semester hours of credit; in diploma programs up to a maximum of 4 semester hours of credit; and in certificate programs up to a maximum of 2 semester hours of credit. (*See second page for additional information.*)
- III. Other Required Hours. A college may include courses to meet graduation or local employer requirements in a certificate, diploma, or associate in applied science program. These curriculum courses shall be selected from the Combined Course Library and must be approved by the System Office prior to implementation. Restricted, unique, or free elective courses may not be included as other required hours.

	AAS	Diploma	Certificate
Minimum General Education Hours	15	6	0
Minimum Major Hours	49	30	12
Other Required Hours	0-7	0-4	0-1
Total Semester Hours Credit in Program	64-76	36-48	12-18

*Within the degree program, the institution shall include opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and basic use of computers.

- A. Core. The subject/course core is comprised of subject areas and/or specific courses which are required for each curriculum program. A diploma program offered under an approved AAS program standard or a certificate which is the highest credential level awarded under an approved AAS program standard must include a minimum of 12 semester hours credit derived from the subject/course core of the AAS program.
- **B.** Concentration (*if applicable*). A concentration of study must include a minimum of 12 semester hours of credit from required subjects and/or courses. The majority of the course credit hours are unique to the concentration. The required subjects and/or courses that make up the concentration of study are in addition to the required subject/course core.
- **C. Other Major Hours.** Other major hours must be selected from prefixes listed on the curriculum standard. A maximum of 9 semester hours of credit may be selected from any prefix listed, with the exception of prefixes listed in the core or concentration. Work experience, including cooperative education, practicums, and internships, may be included in associate in applied science degrees up to a maximum of 8 semester hours of credit; in diploma programs up to a maximum of 4 semester hours of credit; and in certificate programs up to a maximum of 2 semester hours of credit.

	Mammogra	aphy (Certificate)(C	C 45830)		
			AAS	Diploma	Certificate
Miı	nimum Major Hours Required		49 SHC	30 SHC	12 SHC
A.	CORE				16 SHC
Req	uired Courses:				
	MAM 101 Mam Proc & Image Analysis	4 SHC			
	MAM 102 Mam Instrumentation & QA	3 SHC			
	MAM 103 Digital Mammography	1 SHC			
	MAM 105 Mammography Clinical Ed	5 SHC			
	MAM 109 Mammography Capstone	3 SHC			
B.	CONCENTRATION (<i>if applicable</i>)				
C.	OTHER MAJOR HOURS				
	To be selected from the following prefixes:				
	Not applicable				
	Foreign language courses (including ASL) that are not desig major hours may be included in all programs up to a maxim credit.				

Approved by the State Board of Community Colleges on July 20, 2012.

Effective Term Fall 2012 [2012*03]

Curriculum Program Title	Nuclear Technology	Code	A50460
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Concentration

(not applicable)

Curriculum Description

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

Course work includes theory and application related to industrial and engineering technology disciplines including nuclear reactor theory, reactor systems, industrial and nuclear safety, instrumentation, electrical generation, automation and robotics, and may include quality control, welding, and various metallurgical inspection procedures.

Upon completion, graduates should qualify as entry-level nuclear reactor technicians and have academic preparations to advance into other industrial or engineering technician positions within the commercial nuclear power industry.

Curriculum Requirements*

[for associate degree, diploma, and certificate programs in accordance with 23 NCAC 02E.0204(3)]

- I. General Education. Degree programs must contain a minimum of 15 semester hours including at least one course from each of the following areas: humanities/fine arts, social/behavioral sciences, and natural sciences/mathematics. Degree programs must contain a minimum of 6 semester hours of communications. Diploma programs must contain a minimum of 6 semester hours must be in communications. General education is optional in certificate programs.
- **II. Major Hours.** AAS, diploma, and certificate programs must include courses which offer specific job knowledge and skills. Work experience, including cooperative education, practicums, and internships, may be included in associate in applied science degrees up to a maximum of 8 semester hours of credit; in diploma programs up to a maximum of 4 semester hours of credit; and in certificate programs up to a maximum of 2 semester hours of credit. (*See second page for additional information.*)
- **III. Other Required Hours.** A college may include courses to meet graduation or local employer requirements in a certificate, diploma, or associate in applied science program. These curriculum courses shall be selected from the Combined Course Library and must be approved by the System Office prior to implementation. Restricted, unique, or free elective courses may not be included as other required hours.

	AAS	Diploma	Certificate
Minimum General Education Hours	15	6	0
Minimum Major Hours	49	30	12
Other Required Hours	0-7	0-4	0-1
Total Semester Hours Credit (SHC)	64-76	36-48	12-18

[ref. 23 NCAC 02E.0204 (3)]

- A. **Core.** The subject/course core is comprised of subject areas and/or specific courses which are required for each curriculum program. A diploma program offered under an approved AAS program standard or a certificate which is the highest credential level awarded under an approved AAS program standard must include a minimum of 12 semester hours credit derived from the subject/course core of the AAS program.
- **B. Concentration** (*if applicable*). A concentration of study must include a minimum of 12 semester hours credit from required subjects and/or courses. The majority of the course credit hours are unique to the concentration. The required subjects and/or courses that make up the concentration of study are in addition to the required subject/course core.
- **C. Other Major Hours.** Other major hours must be selected from prefixes listed on the curriculum standard. A maximum of 9 semester hours of credit may be selected from any prefix listed, with the exception of prefixes listed in the core or concentration. Work experience, including cooperative education, practicums, and internships, may be included in associate in applied science degrees up to a maximum of 8 semester hours of credit; in diploma programs up to a maximum of 4 semester hours of credit; and in certificate programs up to a maximum of 2 semester hours of credit.

Nuclear Technology A50460					
			AAS	Diploma	Certificate
Minimum Major Hours Required			49 SHC	30 SHC	12 SHC
A.	CORE		29-30 SHC	12 SHC	
	A diploma offered under this AAS degree requires a r	ninimum of			
	12 SHC extracted from the required subject/course co	ore of the AAS degree.			
Requ	ired Courses:				
	NUC 110 Nuclear Reactor Systems	3 SHC			
	NUC 120 Nuclear Reactor Theory	4 SHC			
	PHY 131 Physics–Mechanics	4 SHC			
	PHY 132 Physics–Elec and Magnetism	4 SHC			
Requ	ired Subject Areas:				
	Computers. Choose one:				
	CIS 110 Introduction to Computers	3 SHC or			
	CIS 115 Intro to Prog & Logic	3 SHC			
	Fluids/Hydraulics. Choose one:				
	HYD 110 Hydraulics/Pneumatics I	3 SHC or			
	MEC 265 Fluid Mechanics	3 SHC			
	Nuclear Systems/Operations. Choose a group	o (8 –9 shc):			
	NUC 210 Nuclear Steam Plant Systems	4 SHC			
	NUC 220 Nuclear Primary Plant Systems	4 SHC			
	Or				
	ISC 130 Intro to Quality Control	3 SHC			
NUC	130 Applied NDE-Nuclear	2 SHC			
	WLD 112 Basic Welding Processes	2 SHC			
	WLD 143 Welding Metallurgy	2 SHC			
B.	CONCENTRATION (Not applicable)				
C.	OTHER MAJOR HOURS				
	<i>To be selected from the following prefixes:</i> ATR, CIS, COE, ELC, HYD, ISC,				
	MAT, MEC, NUC, PCI, PHY, and WLD				
	Foreign language courses (including ASL) that are not designated as approved other major hours may be included in all programs up to a maximum of 3 semester hours of credit.				