

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

November 22, 2010

#### **MEMORANDUM**

TO: Presidents

Chief Academic Officers

FROM: Sharon E. Morrissey

Senior Vice President and Chief Academic Officer

SUBJECT: State Board Action on November 18, 2010

**Curriculum Standard Revisions** 

On November 18, 2010, the State Board of Community Colleges approved the requested revisions to the following curriculum standards:

Baking and Pastry Art (A55130)

Biomedical Equipment Technology (A50100)

Cardiovascular Technology (Invasive and Non-Invasive) (A45170)

Culinary Technology (A55200)

Title/Code revised to Culinary Arts (A55150)

Food Service Technology (Diploma) (D55200)

Hotel and Restaurant Management (A25240)

Title/Code revised to Hospitality Management (A25110)

Machining Technology (A50300)

Title/Code revised to Computer-Integrated Machining (A50210)

The State Board of Community Colleges archived the following curriculum standard:

Machining Technology/Tool, Die, and Mold Making (A5030A)

The State Board of Community Colleges also removed the restriction of the following program to designated Department of Correction facilities. This allows colleges to apply to offer the program in the traditional campus setting.

Food Service Technology (Diploma) (D55250)

Community College Presidents Chief Academic Officers Page 2 November 22, 2010

Please be aware that you must implement the attached revised standards no later than one year after the effective term. You must update your colleges electronic program of study and receive approval from the System Office prior to implementation of the revised program. You may view all curriculum standards by visiting the Programs website at:

http://www.nccommunitycolleges.edu/Programs/curriculum\_standards.htm

If you have any questions concerning the State Board action item, please contact Mr. Van Wilson at 919-807-7098 or <a href="wilsonv@nccommunitycolleges.edu">wilsonv@nccommunitycolleges.edu</a>.

SEM/JF/gr Attachments c: Mr. Van Wilson Dr. John Pettitt Ms. Jennifer Frazelle Program Coordinators

> CC10-047 Email

Effective Term Fall 2011 [2011\*03]

Curriculum Program Title Hospitality Management Code A25110

Concentration (not applicable)

### Curriculum Description

This curriculum prepares individuals to understand and apply the administrative and practical skills needed for supervisory and managerial positions in hotels, motels, resorts, inns, restaurants, institutions, and clubs.

Course work includes guest services, leadership, management, restaurant operations, lodging operations, marketing, sanitation, food preparation, food and beverage management and other critical areas.

Graduates should qualify for management or entry-level supervisory positions in food and lodging operations, including restaurants, foodservice, beverage service, catering, front office, reservations and housekeeping. Opportunities are also available in product services, and technology support and sales.

### 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 of general education; 3 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, practicum, 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
<b>Total Semester Hours Credit in Program</b>	64-76	36-48	12-18

<sup>\*</sup>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, practicum, 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.

Hospitality Management A25110					
		AAS	Diploma	Certificate	
Minimum Major Hours Required		49 SHC	30 SHC	12 SHC	
A. CORE Courses required for the diploma are designated with *		26 SHC	17 SHC		
Required Courses:					
*CUL 110 Sanitation & Safety	2 SHC				
*HRM 110 Intro to Hosp & Tourism	3 SHC				
*HRM 140 Legal Issues-Hospitality	3 SHC				
*HRM 220 Cost Control-Food & Bev	3 SHC				
*HRM 240 Marketing for Hospitality	3 SHC				
*HRM 245 Human Resource Mgmt-Hosp	3 SHC				
HRM 280 Mgmt Problems-Hospitality	3 SHC				
Required Subject Areas:					
Accounting. Select one:					
ACC 175 Hotel and Restaurant Acct	4 SHC				
ACC 120 Prin of Financial Acct	4 SHC				
Practical Experience					
Co-op Work Experience. Select one or two of the following:	2 SHC				
Select two of the following:					
COE 111 Co-op Work Experience I	1 SHC				
COE 121 Co-op Work Experience II	1 SHC				
COE 131 Co-op Work Experience III	1 SHC				
COE 211 Co-op Work Experience IV	1 SHC				
COE 221 Co-op Work Experience V	1 SHC				
COE 231 Co-op Work Experience VI	1 SHC				
OR					
Select <u>one</u> of the following					
COE 112 Co-op Work Experience I	2 SHC				
COE 122 Co-op Work Experience II	2 SHC				
COE 132 Co-op Work Experience III	2 SHC				
COE 212 Co-op Work Experience IV	2 SHC				
COE 222 Co-op Work Experience V	2 SHC				
COE 232 Co-op Work Experience VI	2 SHC				
B. CONCENTRATION (Not applicable)					
C. OTHER MAJOR HOURS					
To be selected from the following prefixes:					
ACC, BPA, BUS, CIS, COE, CSC, CTS, CUL, ENT, E	TR, FST, HRM,				
MAT, NUT, RSM, SST, and TAT					
Foreign language courses (including ASL) that are not des	signated as				
approved other major hours may be included in all progra	ıms up to a				
maximum of 3 semester hours of credit.					

Effective Term Fall 2011 [2011\*03]

	Cardiovascular Technology		
Curriculum Program Title	(Invasive and Non-Invasive)	Code	A45170
Concentration	(not applicable)		

### Curriculum Description

Cardiovascular Technology is an allied health career which prepares individuals to develop technical and cognitive skills necessary to perform procedures leading to diagnosis and treatment of cardiovascular heart disease.

Course work emphasizes technical skill development with application of concepts of echocardiography, exercise stress testing, electrocardiography, cardiac catheterization, blood gases, electrophysiology, and anatomy and physiology.

Graduates selecting the non-invasive track may be eligible for the Cardiovascular Technology Registry and American Registry for Diagnostic Sonographers. Graduates selecting the invasive track may be eligible for the Invasive Registry to become a Registered Cardiovascular Invasive Specialist.

#### 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 of general education; 3 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
<b>Total Semester Hours Credit (SHC)</b>	64-76	36-48	12-18

<sup>\*</sup>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.

		AAS	Diploma	Certificate	
Minimum Major Hours Required		49 SHC	30 SHC	12 SHC	
A. CORE		46	NR	NR	
Required Courses:					
ICT 114 Intro Cardiovascular Tech	2 SHC				
ICT 134 CV Anatomy and Physiology	4 SHC				
ICT 136 Cardiac Cath I	5 SHC				
NCT 113 Electrocardiography	4 SHC				
NCT 133 CV Ultrasound Prin	3 SHC				
NCT 143 Echocardiography I	5 SHC				
Required Subject Area: (select one sequence)					
Invasive					
ICT 214 Cardiac Cath II	8 SHC				
ICT 234 Cardiac Cath III	12 SHC				
ICT 244 Peripheral Vascular Cath					
2 SHC					
ICT 254 Intro to Cardiac EP					
2 SHC					
Non-invasive					
NCT 251 Echocardiography II	7 SHC				
NCT 253 Hemodynamic Echo Prin	3 SHC				
NCT 273 Echocardiography III	14 SHC				
B. CONCENTRATION (Not applicable)					
C. OTHER MAJOR HOURS					
To be selected from the following prefixes:					
BIO, CHM, CIS, COE, CSC, ICT, MAT, MED, I and PSY	NCT, OST, PHY,				
Foreign language courses (including ASL) that are not destapproved other major hours may be included in all programmaximum of 3 semester hours of credit.					

Effective Term Summer 2011 [2011\*02]

Curriculum Program Title Biomedical Equipment Technology Code A50100

Concentration (not applicable)

### Curriculum Description

The Biomedical Equipment Technology curriculum prepares individuals to install, operate, troubleshoot, and repair sophisticated devices and instrumentation used in the health care delivery system. Emphasis is placed on preventive and safety inspections to ensure biomedical equipment meets local and national safety standards.

Course work provides a strong foundation in mathematics, physics, electronics, anatomy, physiology, networking and troubleshooting techniques. Some courses will include job experience and job shadowing, as well as people skills and communication, both in written and oral form.

Graduates should qualify for employment opportunities in hospitals, clinics, clinical laboratories, shared service organizations, and manufacturers' field service. With an AAS degree and two years experience, an individual should be able to become a certified Biomedical Equipment Technician.

#### 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 of general education; 3 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
<b>Total Semester Hours Credit (SHC)</b>	64-76	36-48	12-18

<sup>\*</sup>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.

		Biomedical Equip	ment Technolo	gy A50100	<del>,</del>	
				AAS	Diploma	Certificate
Minimum Major Hours Required				49 SHC	30 SHC	12 SHC
A.	CORE			41 SHC	12 SHC	
Req	uired Cour	ses:				
	BMT 111	Introduction to Biomedical Field	2 SHC			
	BMT 112	Hospital Safety Standards	3 SHC			
	BMT 212	BMET Instrumentation I	6 SHC			
	BMT 223	Imaging Techniques/Laser Fundamentals	4 SHC			
	BMT 225	Biomedical Troubleshooting	4 SHC			
	ELN 133	Digital Electronics	4 SHC			
		Instrumentation II	3 SHC			
	ELN 131	Electronic Devices	4 SHC			
Req	uired Subje	ect Areas:				
Ana	tomy and Ph	ysiology. Select one:				
	BIO 161	Introduction to Human Biology	3 SHC			
	BMT 120	Biomedical Anatomy & Physiology	3 SHC			
Elec	tricity. Selec	et one:				
		DC/AC Electricity	5 SHC			
	ELC 131	DC/AC Circuit Analysis	5 SHC			
Netv	vorking. Sel	ect one:				
	NET 110	Networking Concepts	3 SHC			
	NET 125	Networking Basics	3 SHC			
B.	CONCE	NTRATION (Not applicable)				
C.		MAJOR HOURS				
	To be selected from the following prefixes:					
	BIO, BMT, CET, CIS, COE, CSC, CTS, DBA, EGR, ELC, ELN, ISC, NET, NOS, OMT, PCI, SEC, and TNE					
	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.					

Effective Term Fall 2011 [2011\*03]

Curriculum Program Title Computer-Integrated Machining Code A50210

Concentration (not applicable)

### Curriculum Description

The Computer-Integrated Machining curriculum prepares students with the analytical, creative and innovative skills necessary to take a production idea from an initial concept through design, development and production, resulting in a finished product.

Coursework may include manual machining, computer applications, engineering design, computer-aided drafting (CAD), computer-aided machining (CAM), blueprint interpretation, advanced computerized numeric control (CNC) equipment, basic and advanced machining operations, precision measurement and high-speed multi-axis machining.

Graduates should qualify for employment as machining technicians in high-tech manufacturing, rapid-prototyping and rapid-manufacturing industries, specialty machine shops, fabrication industries, and high-tech or emerging industries such as aerospace, aviation, medical, and renewable energy, and to sit for machining certification examinations.

### 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 of general education; 3 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
<b>Total Semester Hours Credit (SHC)</b>	64-76	36-48	12-18

<sup>\*</sup>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.

[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.

**Computer-Integrated Machining A50210** AAS **Diploma** Certificate **Minimum Major Hours Required 49 SHC 30 SHC 12 SHC** 12-16 SHC 12-16 SHC Core Courses required for the diploma are designated with \* Required Subject Areas: \*Machining Fundamentals: MAC 111 Machining Technology I 6 SHC MAC 141 Machining Applications I 4 SHC (certification course set) MAC 171 Measure/Material & Safety 1 SHC and MAC 172 Job Plan, Bench & Layout 1 SHC and MAC 173 Manual Milling/Drilling 2 SHC and MAC 174 Manual Turning 2 SHC \*Intermediate Machining: Select One Course: MAC 112 Machining Technology II 6 SHC MAC 142 Machining Applications II 4 SHC \*Blueprint Reading/CAD Fundamentals. Select One Course: BPR 111 Blueprint Reading 2 SHC MAC 131 Blueprint Reading/Mach I 2 SHC \*Computer Numerical Control Emphasis. Select One Course: MAC 121 Intro to CNC 2 SHC MAC 122 CNC Turning 2 SHC MAC 124 CNC Milling 2 SHC MEC 110 Intro to CAD/CAM 2 SHC В. **CONCENTRATION** (Not applicable) C. **OTHER MAJOR HOURS** *To be selected from the following prefixes:* ALT, ASM, ATR, AUT, BPR, BUS, CIS, COE, CSC, DDF, DFT, EGR, HYD, ISC, MAC, MEC, OMT, PLA, SST, 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.

Effective Term Fall 2011 [2011\*03]

Curriculum Program Title	<b>Baking and Pastry Arts</b>	Code	A55130
Concentration	(not applicable)		

### Curriculum Description

This curriculum is designed to provide students with the skills and knowledge required for employment in the baking/pastry industry, including restaurants, hotels, independent bakeries/pastry shops, wholesale/retail markets, and high-volume bakeries, and/or further academic studies.

Students will be provided theoretical knowledge/practical applications that provide critical competencies to meet industry demands, including environmental stewardship, operational efficiencies and professionalism. Course work includes specialty/artisanal breads, desserts/pastries, decorative work, high-volume production and food marketing.

Graduates should qualify for entry-level positions, such as pastry/bakery assistant, area pastry chef and assistant pastry chef. American Culinary Federation certification may be available to graduates.

### 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 of general education; 3 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
<b>Total Semester Hours Credit in Program</b>	64-76	36-48	12-18

<sup>\*</sup>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.

			Baking and	Pastry Arts A	55130		
					AAS	Diploma	Certificate
Min	imum Maj	jor Hour	rs Required		49 SHC	30 SHC	12 SHC
A.	CORE	Courses r	required for diploma are designated wi	ith *	25 SHC	13 SHC	
Reg	uired Cou	rses:					
•	BPA	150	Artisan & Specialty Breads	4 SHC			
*	BPA	210	Cake Design & Decorating	3 SHC			
*	BPA	250	Dessert/Bread Production	5 SHC			
	BPA	260	Pastry & Baking Marketing	3 SHC			
*	CUL	110	Sanitation & Safety	2 SHC			
*	CUL	160	Baking I	3 SHC			
	HRM	245	Human Resource Mgmt-Hosp	3 SHC			
Req	uired Subj	ject Area	as:				
Co-o	p Work Ex	perience.	Select one or two of the following:	2 SHC			
Selec	ct <u>two</u> of the	following	:				
	COE 111		Co-op Work Experience I	1 SHC			
	COE 121		Co-op Work Experience II	1 SHC			
	COE 131	1	Co-op Work Experience III	1 SHC			
	COE 211		Co-op Work Experience IV	1 SHC			
	COE 221		Co-op Work Experience V	1 SHC			
	COE 231		Co-op Work Experience VI	1 SHC			
	OR						
Selec	ct <u>one</u> of the	following					
	COE 112		Co-op Work Experience I	2 SHC			
	COE 122		Co-op Work Experience II	2 SHC			
	COE 132		Co-op Work Experience III	2 SHC			
	COE 212		Co-op Work Experience IV	2 SHC			
	COE 222		Co-op Work Experience V	2 SHC			
	COE 232		Co-op Work Experience VI	2 SHC			
B.	CONCE	ENTRAT	TION (Not applicable)				
C.	OTHER	MAJO	<b>R HOURS</b> To be selected from the follo	wing prefixes:			
	ACC, AR	RT, BPA,	BUS, CIS, COE, CSC, CUL, ENT, I	ETR, FST, HOR,			
	HRM, IS	C, NUT,	OMT, OST, RSM, SST, TAT				
	Foreign l	anouaoe a	courses (including ASL) that are not de	esionated as			
			jor hours may be included in all progr				
		-	ester hours may be included in all progr ester hours of credit.	шиз ир ю и			
	тихітит	oj seme	ester nours of creatt.				

Effective Term Fall 2011 [2011\*03]

Curriculum Program Title	Culinary Arts		A55150
Concentration	(not applicable)	= =	

### Curriculum Description

This curriculum provides specific training required to prepare students to assume positions as trained culinary professionals in a variety of foodservice settings including full service restaurants, hotels, resorts, clubs, catering operations, contract foodservice and health care facilities.

Students will be provided theoretical knowledge/practical applications that provide critical competencies to meet industry demands, including environmental stewardship, operational efficiencies and professionalism. Courses include sanitation/safety, baking, garde manger, culinary fundamentals/production skills, nutrition, customer service, purchasing/cost control, and human resource management.

Graduates should qualify for entry-level opportunities including prep cook, line cook, and station chef. American Culinary Federation certification may be available to graduates. With experience, graduates may advance to positions including sous chef, pastry chef, executive chef, or foodservice manager.

#### 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 of general education; 3 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
<b>Total Semester Hours Credit in Program</b>	64-76	36-48	12-18

<sup>\*</sup>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.

Culinary Arts A55150						
				AAS	Diploma	Certificate
Mini	mum	Major Hours Required		49 SHC	30 SHC	12 SHC
A.	CO	RE		30-32 SHC	NR	
Requi	red Co	urses:				
CUL	110	Sanitation & Safety	2 SHC			
CUL	140	Culinary Skills I	5 SHC			
CUL	160	Baking I	3 SHC			
CUL	170	Garde Manger I	3 SHC			
CUL	240	Culinary Skills II	5 SHC			
HRM	245	Human Resource Mgmt-Hosp	3 SHC			
Requi	red Su	bject Areas:				
Nutrit	tion. S	elect one:				
CUL	112	Nutrition for Foodservice	3 SHC			
NUT	110	Nutrition	3 SHC			
Custo	mer Se	rvice. Select one:				
CUL	135	Food & Beverage Service	2 SHC			
HRM	124	Guest Service Management	3 SHC			
Purch	asing/	Cost Control. Select one:				
	120	Purchasing	2 SHC			
HRM		Cost Control-Food & Bev	3 SHC			
	260	Procurement for Hosp	3 SHC			
		Experience. Select one or two of the following:	2 SHC			
оо ор		ect two of the following:	2 5220			
COE		Co-op Work Experience I	1 SHC			
COE		Co-op Work Experience II	1 SHC			
COE		Co-op Work Experience III	1 SHC			
COE		Co-op Work Experience IV	1 SHC			
COE		Co-op Work Experience V	1 SHC			
COE	231	Co-op Work Experience VI	1 SHC			
COL	OR		1 SHC			
		ect one of the following				
COE	112	Co-op Work Experience I	2 SHC			
COE	122		2 SHC 2 SHC			
		Co-op Work Experience II				
COE	132	Co-op Work Experience III	2 SHC			
COE	212	Co-op Work Experience IV	2 SHC			
COE	222	Co-op Work Experience V	2 SHC			
COE	232	Co-op Work Experience VI	2 SHC			
B.		NCENTRATION (Not applicable)				
C.	OT	HER MAJOR HOURS				
	To be	e selected from the following prefixes: ACC, AGR, AR	T, BPA, BUS, CIS,			
		E, CSC, CUL, ENT, ETR, FRE, FST, HOR, HRM				
		T, OMT, RSM, SPA, and SST	-,,,			
Fore:			ited as approved			
	_	guage courses (including ASL) that are not designa				
		hours may be included in all programs up to a ma	xımum of 3 semester			
hours	of cre	dit.				

Effective Term Fall 2011 [2011\*03]

Curriculum Program Title	Foodservice Technology (Diploma)	Code	D55250
Concentration	(not applicable)	<u> </u>	

### Curriculum Description

This curriculum is designed to introduce students to the foodservice industry and prepare them for entry-level positions in industrial, institutional or commercial production foodservice operations.

Courses include sanitation, basic and intermediate foodservice production skills, baking, menus, purchasing and basic cost control.

Graduates should qualify for employment as line cooks, prep cooks, or bakers in production foodservice settings or entry-level kitchen management in an institutional foodservice setting.

#### 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 of general education; 3 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
<b>Total Semester Hours Credit (SHC)</b>	64-76	36-48	12-18

<sup>\*</sup>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.

#### [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.

Foodservice Technology (Diploma) D55250 Certificate **Diploma** 29-32 SHC 16 SHC **Minimum Major Hours** CORE Courses required for the certificate are designated with \* \*Introduction. Select one course: FST 100 Intro to Foodservice 3 SHC HRM 110 Intro to Hosp & Tourism 3 SHC \*Safety and Sanitation. Select one course: FST 103 Foodservice Sanitation 2 SHC CUL 110 Safety and Sanitation 2 SHC \*Basic Foodservice Skills. Select one course or group: FST 102 Foodservice Skills I 8 SHC CUL 140 Culinary Skills I 5 SHC and CUL 170 Garde Manger I 3 SHC CUL 142 Fundamentals of Food 5 SHC and CUL 170 Garde Manger I 3 SHC Intermediate Foodservice Skills. Select one course: FST 106 Foodservice Skills II CUL 240 Culinary Skills II 5 SHC 5 SHC \*Basic Baking. Select one course: FST 101 Quantity Baking I 3 SHC CUL 160 Baking I 3 SHC Intermediate Baking. Select one course: FST 107 Quantity Baking II 3 SHC CUL 260 Baking II 3 SHC Purchasing/Cost Control. Select one course or group: FST 108 Purchasing & Cost Control 3 SHC CUL 120 Purchasing 2 SHC and HRM 220 Cost Control-Food & Bev 3 SHC HRM 260 Procurement for Hosp 3 SHC Menus. Select one course: FST 105 Menu Planning 3 SHC CUL 130 Menu Design 2 SHC **CONCENTRATION** (Not applicable) В. OTHER MAJOR HOURS To be selected from the following prefixes: ACC, AGR, ART, BPA, BUS, CIS, CUL, COE, CSC, ENT, ETR, FRE, FST, HOR, HRM, ISC, MAT, NUT, OMT, RSM, SPA, and SST 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.