

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

January 21, 2009

#### **MEMORANDUM**

TO: Presidents

Chief Academic Officers

FROM: Delores A. Parker

Senior Vice President Chief Academic Officer

SUBJECT: State Board Action on January 16, 2009

**Revised Curriculum Standards** 

On January 16, 2009, the State Board of Community Colleges approved the requested revisions to the following curriculum standards:

Funeral Service Education (A55260)

Simulation and Game Development (A25450)

Surveying Technology (A40380)

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

The revised standards are attached for your convenience. You may view all curriculum standards and courses by visiting the Programs website:

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

If you have questions concerning the revised standards, please contact Dr. Judith C. Mann at 919-807-7108 or mannj@nccommunitycolleges.edu.

DAP/jf

Attachments

c: Dr. Judith C. Mann

Dr. John Pettitt

Ms. Jennifer Frazelle

Ms. Tracy McPherson

**Program Coordinators** 

CC09-002 Email

## **CURRICULUM STANDARD**

Effective Term Summer 2009 [2009\*02]

Curriculum Program Title Funeral Service Education Code A55260

Concentration (not applicable)

## Curriculum Description

The Funeral Service Education curriculum provides students with the opportunity to become proficient in basic funeral service skills.

In addition to the general education courses offered in the curriculum, technical courses such as human anatomy, embalming theory and practice, embalming chemistry, restorative arts, funeral law, and funeral home operations are taught.

Graduates of the curriculum, upon passing the state or national exam and completing an internship in a funeral home, will be qualified for employment as embalmers and/or funeral directors.

## 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 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.

## Major Hours

[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.

| Funeral Service Education A55260 |                              |  |               |        |         |             |
|----------------------------------|------------------------------|--|---------------|--------|---------|-------------|
|                                  |                              |  |               | AAS    | Diploma | Certificate |
| Mini                             | Minimum Major Hours Required |  | 49 SHC        | 30 SHC | 12 SHC  |             |
| A.                               | CORE                         |  |               | 29 SHC | 29 SHC  |             |
|                                  | Courses                      | required for the diploma are design  | ated with a * |        |         |             |
| Requ                             | ired Cour                    | ses:   |               |        |         |             |
| *                                | ACC 111                      | Financial Accounting   | 3 SHC         |        |         |             |
| *                                | BUS 110                      | Introduction to Business   | 3 SHC         |        |         |             |
| *                                | BUS 115                      | Business Law I   | 3 SHC         |        |         |             |
| *                                | BUS 230                      | Small Business Management  | 3 SHC         |        |         |             |
| *                                | CIS 113                      | Computer Basics  | 1 SHC         |        |         |             |
| *                                | FSE 112                      | Principles of Funeral Service  | 3 SHC         |        |         |             |
| *                                | FSE 116                      | Funeral Law and Ethics   | 3 SHC         |        |         |             |
| *                                | FSE 214                      | Pathology  | 3 SHC         |        |         |             |
| *                                | FSE 215                      | Funeral Home Operations  | 4 SHC         |        |         |             |
| *                                | PSY 141                      | Psychology of Death and Dying  | 3 SHC         |        |         |             |
| _                                |                              |  |               |        |         |             |
| Requ                             | uired Subje                  | ect Areas:   |               |        |         |             |
|                                  | None                         |  |               |        |         |             |
| В.                               | CONCE                        | NTRATION (Not applicable)  |               |        |         |             |
|                                  |                              |  |               |        |         |             |
| C.                               |                              | MAJOR HOURS  |               |        |         |             |
|                                  | To be select                 | ted from the following prefixes:   |               |        |         |             |
|                                  | ACC, BUS                     | S, CIS, COE, CSC, FSE, and PSY   |               |        |         |             |
|                                  | approved o                   | nguage courses (including ASL) that<br>other major hours may be included i<br>of 3 semester hours of credit. | ē             |        |         |             |

## **CURRICULUM STANDARD**

Effective Term Fall 2009 [2009\*03]

Curriculum Program Title

Simulation and Game Development

Code

A25450

Concentration

(not applicable)

## Curriculum Description

The Simulation and Game Development curriculum provides a broad background in simulation and game development with practical applications in creative arts, visual arts, audio/video technology, creative writing, modeling, design, programming and management.

Students will receive hands-on training in design, 3D modeling, and programming for the purpose of creating simulations and games.

Graduates should qualify for employment as designers, artists, animators, programmers, testers, quality assurance analysts, engineers and administrators in the entertainment industry, health care, education, corporate training, and government organizations.

#### 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 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.

## **Major Hours**

[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.

| Simulation and Game Development A25450 |  |                    |        |         |             |
|--|--|--------------------|--------|---------|-------------|
|  |  |                    | AAS    | Diploma | Certificate |
| Minimum Ma                             | ajor Hours Required  |                    | 49 SHC | 30 SHC  | 12 SHC      |
| A. COR                                 | RE   |                    | 30 SHC |         |             |
| Required Co                            | urses:   |                    |        |         |             |
| SGD 11                                 | 1 Introduction to SGD  | 3 SHC              |        |         |             |
| SGD 11                                 | 2 SGD Design   | 3 SHC              |        |         |             |
| SGD 11                                 | 4 3D Modeling  | 3 SHC              |        |         |             |
| SGD 21                                 | 2 SGD Design II  | 3 SHC              |        |         |             |
| SGD 28                                 | 39 SGD Project   | 3 SHC              |        |         |             |
| Required Sul                           | oject Area:  |                    |        |         |             |
| Programming.                           | Select one:  |                    |        |         |             |
|  | 34 C++ Programming   | 3 SHC              |        |         |             |
| CSC 15                                 | 51 JAVA Programming  | 3 SHC              |        |         |             |
|  | 53 C# Programming  | 3 SHC              |        |         |             |
| SGD 11                                 | 3 SGD Programming  | 3 SHC              |        |         |             |
| Select Addition                        | al 12 SHC from SGD courses   | 12 SHC             |        |         |             |
| B. CONC                                | ENTRATION (Not applicable)   |                    |        |         |             |
|  | R MAJOR HOURS  |                    |        |         |             |
| To be sel                              | ected from the following prefixes:   |                    |        |         |             |
| ,                                      | RT, BUS, CIS, COE, CSC, CTS, DAN,  |                    |        |         |             |
|  | ME, DRA, ECO, ENT, FVP, GAM, GF<br>OS, PHO, SGD, SGR, and WEB  | RA, GRD, GIS, MUS, |        |         |             |
| approve                                | language courses (including ASL) that and other major hours may be included in a mof 3 semester hours of credit. | 9                  |        |         |             |

## **CURRICULUM STANDARD**

Effective Term Fall 2009 [2009\*03]

| Curriculum Program Title | Surveying Technology | Code | A40380 |
|--------------------------|----------------------|------|--------|
| Concentration            | (not applicable)     | _    |        |

## Curriculum Description

The Surveying Technology curriculum provides training for technicians in the many areas of surveying. Surveyors are involved in land surveying, route surveying, construction surveying, photogrammetry, mapping, global positioning systems, geographical information systems, and other areas of property description and measurements.

Course work includes the communication and computational skills required for boundary, construction, route, and control surveying, photogrammetry, topography, drainage, surveying law, and subdivision design, with emphasis upon applications of electronic data collection and related software including CAD.

Graduates should qualify for jobs as survey party chief, instrument person, surveying technician, highway surveyor, mapper, GPS technician, and CAD operator. Graduates will be prepared to pursue the requirements necessary to become a Registered Land Surveyor in North Carolina.

## 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 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 |
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| <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.

## Major Hours

[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.

**Surveying Technology A40380 AAS** Certificate **Diploma 49 SHC 30 SHC** 12 SHC Minimum Major Hours Required Α. **CORE** 29-30 SHC NR **Required Courses:** CIV 211 Hydraulics and Hydrology 3 SHC SRV 110 Surveying I 4 SHC Surveying II SRV 111 4 SHC SRV 210 Surveying III 4 SHC SRV 220 Surveying Law 3 SHC SRV 230 **Subdivision Planning** 3 SHC SRV 240 Topo/Site Surveying 4 SHC **Required Subject Areas:** Statics & Strength of Materials. Select one: CIV 110 Statics/Strength of Materials 4 SHC MEC 250 Statics & Strength of Materials 5 SHC B. **CONCENTRATION** (Not applicable) C. OTHER MAJOR HOURS To be selected from the following prefixes: CIS, CIV, COE, CSC, DFT, EGR, GIS, MAT, MEC, PHY, and SRV 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.