



NORTH CAROLINA COMMUNITY COLLEGE SYSTEM

R. Scott Ralls, Ph.D.

President

May 15, 2008

RESPONSE DEADLINE: May 29, 2008

MEMORANDUM

TO: Select Chief Academic Officers

FROM: Delores A. Parker, Vice President
Academic and Student Services

SUBJECT: Curriculum Standard Revision to Pharmacy Technology (D45580)

The System Office has received a request to revise the curriculum standard for the Pharmacy Technology (D45580) program.

Attached is a form requesting your approval or disapproval of the proposed changes. ***Please complete and return the form to Renee Batts by May 29, 2008.*** You may fax your response to (919) 807-7164. Once the responses have been received at the System Office, the curriculum standard revision will be presented at the June meeting of the State Board of Community Colleges for future action and the July meeting of the State Board of Community Colleges for action.

Thank you for your prompt attention to this matter. If you have questions, please contact Renee Batts at (919) 807-7118 or battsr@nccommunitycolleges.edu.

DAP/rb

Attachments

c: Select Presidents
Judith C. Mann
Renee Batts

S08-032

Email

CURRENT

CURRICULUM STANDARD

Effective Term
Fall 1997
[1997*03]

Curriculum Program Title

Pharmacy Technology (Diploma)

Code

D45580

Concentration

(not applicable)

Curriculum Description

The Pharmacy Technology curriculum prepares individuals to assist the pharmacist in duties that a technician can legally perform and to function within the boundaries prescribed by the pharmacist and the employment agency.

Graduates will maintain patient's records; fill prescriptions; maintain inventories; set up, package, and label medication doses; prepare solutions and intravenous additives, and perform clerical duties, including insurance forms and forms required by third-party payers.

Graduates may be employed in hospitals, nursing homes, private and chain drug stores, research laboratories, wholesale drug companies, and pharmaceutical manufacturing facilities. Graduates will qualify to take the National Certification Examination developed by the Pharmacy Technician Certification Board.

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 |
| 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.*

CURRENT

Major Hours

- 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.

Pharmacy Technology D45580

| | AAS | Diploma | Certificate |
|---|---------------|------------------|---------------|
| Minimum Major Hours Required | 49 SHC | 30 SHC | 12 SHC |
| A. CORE Required Courses: PHM 110 Introduction to Pharmacy 3 SHC PHM 111 Pharmacy Practice I 4 SHC PHM 115 Pharmacy Calculations 3 SHC PHM 118 Sterile Products 4 SHC PHM 120 Pharmacology I 3 SHC PHM 125 Pharmacology II 3 SHC PHM 140 Trends in Pharmacy 2 SHC Required Subject Areas: Pharmacy Clinical. Select a minimum of 2 SHC: PHM 132 Pharmacy Clinical 2 SHC PHM 133 Pharmacy Clinical 3 SHC PHM 134 Pharmacy Clinical 4 SHC PHM 135 Pharmacy Clinical 5 SHC PHM 136 Pharmacy Clinical 6 SHC PHM 138 Pharmacy Clinical 8 SHC | | 24-30 SHC | 12 SHC |
| B. CONCENTRATION (Not applicable) | | | |
| C. OTHER MAJOR HOURS <i>To be selected from the following prefixes:</i> ACA, BUS, CIS, COE, CSC, HSC, PBT, PHM, PSY, and SOC <i>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.</i> | | | |

*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.

Curriculum Program Title

Pharmacy Technology

Code

A45580

Concentration

(not applicable)

Curriculum Description

The Pharmacy Technology Program prepares individuals to assist the pharmacist in duties that a technician can legally perform and to function within the boundaries prescribed by the pharmacist and the employment agency.

Students will prepare prescription medications, mix intravenous solutions and other specialized medications, update patient profiles, maintain inventories, package medications in unit-dose or med-card form, and gather data used by pharmacists to monitor drug therapy.

Employment opportunities include retail, hospitals, nursing homes, research laboratories, wholesale drug companies, and pharmaceutical manufacturing facilities. Graduates from the program may be eligible to take the National Certification Examination to become a certified pharmacy 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 |
| 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.*

PROPOSED

Major Hours

- 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.

Pharmacy Technology A45580

| | AAS | Diploma | Certificate |
|---|---------------|---------------|---------------|
| Minimum Major Hours Required | 49 SHC | 30 SHC | 12 SHC |
| A. CORE <i>Courses required for the diploma are designated with *</i> Required Courses: <ul style="list-style-type: none"> *PHM 110 Introduction to Pharmacy 3 SHC *PHM 111 Pharmacy Practice I 4 SHC *PHM 115 Pharmacy Calculations 3 SHC *PHM 118 Sterile Products 4 SHC *PHM 120 Pharmacology I 3 SHC *PHM 125 Pharmacology II 3 SHC *PHM 140 Trends in Pharmacy 2 SHC PHM 150 Hospital Pharmacy 4 SHC PHM 155 Community Pharmacy 3 SHC PHM 160 Pharm Dosage Forms 3 SHC *PHM 165 Pharmacy Prof Practice 2 SHC Required Subject Area: *Pharmacy Clinical. Select a minimum of 14 SHC: Select a minimum of 2 SHC for Diploma or Certificate: <ul style="list-style-type: none"> PHM 132 Pharmacy Clinical 2 SHC PHM 133 Pharmacy Clinical 3 SHC PHM 134 Pharmacy Clinical 4 SHC PHM 135 Pharmacy Clinical 5 SHC PHM 136 Pharmacy Clinical 6 SHC PHM 138 Pharmacy Clinical 8 SHC | 48 SHC | 26 SHC | 12 SHC |
| B. CONCENTRATION (Not applicable) | | | |
| C. OTHER MAJOR HOURS <i>To be selected from the following prefixes:</i> BUS, CIS, COE, CSC, HSC, PBT, PHM, PSY, and SOC <i>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.</i> | | | |

*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.

**College Recommendation
Reply Form – Please Return By May 29, 2008**
(Fax Number: 919-807-7164)

| |
|---|
| Curriculum Standard Revision Request: Pharmacy Technology (D45580) |
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Proposed Revisions

- Change Curriculum Standard from D45580 to A45580. Colleges approved to offer the Pharmacy Technology Program (A45580) would have the ability to offer the AAS, diploma or certificate.
- Revise the curriculum description.
- Add to the Required Course list: PHM 150 (Hospital Pharmacy), PHM 155 (Community Pharmacy), PHM 160 (Pharm Dosage Forms) and PHM 165 (Pharmacy Prof Practice).
- Required Subject Area: Pharmacy Clinical change instructions from “select a minimum of 2 SHC” to “select a minimum of 14 SHC. “

Rationale of Requesting College: Revision of the curriculum description and offering the program at an Associate level has been recommended to meet industry needs. The addition of PHM 150, PHM 155, PHM 160, PHM 165 and increasing the minimum Pharmacy clinical hours from 2 SHC to 14 SHC increases the knowledge, skills and abilities of the Pharmacy Technology student and assist in preparing them for the workforce.

Please indicate your recommendation below (check one):

_____ We have reviewed the proposed revision and **recommend** adoption

_____ We have reviewed the proposed revision and **do not recommend** adoption for the following reason(s):

_____ We do not offer this program and wish to decline from making a recommendation.

College: _____

Signature of President: _____ **Date:** _____

Please return form to:

Renee Batts, Coordinator
Program Services
NC Community College System
5016 Mail Service Center
Raleigh, NC 27699-5016
Fax Number: (919) 807-7164