

Annual Program Review And Assessment 2007-2008

Annual Program Review And Assessment

* Curriculum Program Title: Pharmacy Technology Curriculum Code: D45580

Note: The following questions will be reported in the FTCC Annual Program Review to the North Carolina Community College System.

2007-2008

Did the Advisory Committee meet in the last year? (Yes, No or Not Applicable)

Yes

If yes, are the minutes of the meeting on file? (Yes, No or Not Applicable)

Yes

Has the curriculum currency for this program been addressed during the last five years? (Yes or No)

Yes

Are the documents on file? (Yes or No)

Yes

Did this program respond to last year's Program Review recommendations? (Yes, No or Not Applicable)

Yes

If applicable, is the documentation on file and available for verification? (Yes or No)

Yes

Department Chairperson / Date

Division Chairperson / Date

Academic Dean / Date

Associate VP for Curriculum
Programs / Date

Copies of the Program Review are to be provided to the Director of the Institutional Effectiveness and Assessment Office after review/approval by the officials listed above.

Annual Program Review and Assessment 2007-2008

1. Identify the **Student Enrollment In The Curriculum** during the last three (3) years (Note: If your curriculum has diplomas and/or certificates, please include the enrollment in those separately in the comments section)

	2005-2006	2006-2007	2007-2008
Curriculum Enrollment	Fall 68 / Spring 48	Fall 102 / Spring 84	Fall 96 / Spring 82

Comments:

2. Identify the **Number of Program/Curriculum Graduates** during the last three (3) years (Note: If your curriculum has diplomas and/or certificates, please include the enrollment in those separately in the comments section):

	2005-2006	2006-2007	2007-2008
Curriculum Graduates	12	14	19

Comments:

3. Identify the **Number of Faculty (full-time and part-time)** that taught in the curriculum during the last three (3) years:

	2005-2006	2006-2007	2007-2008
Full-Time Instructors	1	1	1
Part-Time Instructors	1	1	1

Comments:

4. Identify the **Number of FTE** generated by the curriculum and the **Number of Instructor Positions** funded based upon the FTE during the last three (3) years:

	2005-2006	2006-2007	2007-2008
FTE Generated	19.32	31.45	30.09
Instructor Positions	0.88	1.42	1.36

Comments:

5. Identify the **Budget Dollar Amount of Equipment and Supplies** purchased to support the curriculum during the last three (3) years:

	2005-2006	2006-2007	2007-2008
Equipment	2878.30	1936.70	0.00
Supplies	6064.33	3042.66	15159.24

Comments:

6. Identify the **Passing Rates for First-time Licensure Exam Takers** (if applicable) during the last three (3) years
(Note: If your curriculum/program has multiple licensure exams, include data for each one of the multiple exams)

	2005-2006	2006-2007	2007-2008
First-time Exam Takers	100%	100%	100%

Comments:

7. Identify the **Number of Sections Offered** to students during the year, the **Number of Sections Made**, and the **Average Class Size** during the last three (3) years:

	2005-2006	2006-2007	2007-2008
Number of Sections Offered	12	12	12
Number of Sections Made	12	12	12
Average Class Size	14.5	23.25	22.25

Comments:

8. Identify the **Average Faculty Workload** (contact hours / per week) during the last three (3) years:

	2005-2006	2006-2007	2007-2008
Average Full-time Faculty Workload	18	18	18

Comments:

9. Identify the **Number of Sections Taught by Full-Time Instructors** and the **Number of Sections Taught by Part-Time Instructors** during the last three (3) years:

	2005-2006	2006-2007	2007-2008
Sections Taught by Full-time Instructors	12	12	12
Sections Taught by Part-time Instructors	6	6	6

Comments:

10. Identify when the curriculum was last revised (implementation semester/term): Fall 2008

11. Identify how each program instructor (full-time and part-time) assures that distance education students, taking on-line classes, are meeting the same requirements for successful course completion as traditional students in face to face classes.

12. Identify the **Program Assessment Plan Objectives** for the past 3 years, along with the measurable learning outcome metrics/rubrics used to assess those objectives, and the action plans that came from analysis of the metrics/rubrics (Note: Data should be readily available in Weaveonline Program Area).

No data available at this time.

13. Identify by course listing, which **FTCC Core Competency Statement** is being met by the instruction in that course (Note: Core Competency Statements are included in the Strategic Plan and each course should address one or more of those statements)

	I. Communicate effectively in speaking, writing, reading and listening.	II. Use critical thinking to analyze problems and make logical decisions.	III. Demonstrate socialization skills that support cultural awareness and a global perspective.	IV. Demonstrate quantitative competencies.	V. Demonstrate computer literacy.
ACA 111/115	X		X		
BIO 106	X	X			
CIS 113	X				X
ENG 111	X		X		
PSY 150	X		X		
PHM 110	X	X	X	X	
PHM 111	X	X	X	X	X
PHM 115		X	X	X	
PHM 115A		X	X	X	
PHM 118	X	X	X	X	X
PHM 120	X		X	X	
PHM 125	X		X	X	
PHM 132	X	X	X	X	X
PHM 136	X	X	X	X	X
PHM 140	X		X	X	X
PHM 155	X	X	X	X	

14. Attach a copy of the current year's **Program Assessment Plan** indicating quality enhancement goals for the upcoming year, as an attachment to this document (Note: Available from Weaveonline)

Annual Program Review And Assessment Recommendations For Quality Improvement

Curriculum Program Title: Pharmacy Technology	Curriculum Code: D45580	Fiscal Year: 2007-08
Trends (attached additional pages if necessary): <ol style="list-style-type: none">1. Continued need for highly trained pharmacy technicians due to pharmacist shortage, industry growth and increased regulation.2. North Carolina Board of Pharmacy has increased training requirements and legal requirements for pharmacy technicians.3. Trend toward mandatory certification for all pharmacy technicians.4. Increase in technology in the practice of pharmacy.		
Needs (attached additional pages if necessary): <ol style="list-style-type: none">1. Increase the number of clinical sites for student rotations.2. Increase state of the art electronic drug information resources in the pharmacy technology laboratory.		
Recommendations (attached additional pages if necessary): <ol style="list-style-type: none">1. Work with Advisory Committee members and other area pharmacists to promote program and identify potential high quality sites.2. Research current drug information resources and their cost.		
Response to Last Year's Recommendations (attached additional pages if necessary): <p>Continue to look for cost effective ways to increase technology/automation in the pharmacy technology laboratory.</p>		

**FAYETTEVILLE TECHNICAL COMMUNITY COLLEGE
ANNUAL PROGRAM REVIEW
FOR ACADEMIC YEAR FALL 2008 – SPRING 2009**

PROGRAM CODE/TITLE: D45580 / Pharmacy Technology

SECTION 1: PROGRAM PROFILE

Program awards: Degree Diploma Certificate

Mode of delivery:

Day Evening Online Hybrid Web Assisted NCIH

% of degree	2008 – 2009	<input type="checkbox"/> 100%	<input type="checkbox"/> 75–99%	<input type="checkbox"/> 50–74%	<input type="checkbox"/> 25-49%	<input type="checkbox"/> < 25%
available online:	2007 – 2008	<input type="checkbox"/> 100%	<input type="checkbox"/> 75–99%	<input type="checkbox"/> 50–74%	<input type="checkbox"/> 25-49%	<input type="checkbox"/> < 25%

% of diploma	2008 – 2009	<input type="checkbox"/> 100%	<input type="checkbox"/> 75–99%	<input type="checkbox"/> 50–74%	<input type="checkbox"/> 25-49%	<input checked="" type="checkbox"/> < 25%
available online:	2007 – 2008	<input type="checkbox"/> 100%	<input type="checkbox"/> 75–99%	<input type="checkbox"/> 50–74%	<input type="checkbox"/> 25-49%	<input checked="" type="checkbox"/> < 25%

Location of offerings:

Main SLC HEC Ft. Bragg Clinical Sites High Schools Other _____

Cooperative Education: Required Elective Not in Program

Resources/library holdings been reviewed:

Main Campus Yes No Indicate semester: Fall 2008

Spring Lake Campus Yes No Indicate semester:

Comments:

SECTION 2: ENROLLMENT

	2008 - 2009		2007 - 2008		2006 - 2007	
Course Enrollment	Fall	Spring	Fall	Spring	Fall	Spring
# Enrolled in Program	23	19	23	22	26	21
# Sections Offered	5	7	5	7	5	7
# Sections Made	5	7	5	7	5	7
Average Class Size	19.2	10	19.2	12	20.4	12
% of Sections with Enrollment \geq 12	80%	14%	80%	43%	80%	57%

Maximum enrollment in program: Unlimited Capped at 24

Comments:

Sections with an enrollment of less than 12 students were either laboratory or clinical sections. All classroom sections had an enrollment of more than 12 students. The laboratory and clinical settings are not able to accommodate more than 12 students.

SECTION 3: GRADUATION

	2008 - 2009	2007 - 2008	2006 - 2007
# Graduates (Program)	13	19	14
% of Available Graduates Working	83%	63%	67%
% of Graduates Working in a Curriculum-related Job	60%	70%	50%
Salary Average (Annual)	\$21,068	\$20,550	\$24,856

Comments:

SECTION 4: GRADUATE SATISFACTION

Identify the percentage of respondents who indicated a satisfied rating or above in these areas:

	2008 - 2009	2007 - 2008	2006 - 2007
Quality of instruction in courses in program area	100%	100%	100%
Quality of instruction in courses not in program area	100%	100%	100%
Quality of academic program	100%	100%	100%
Would student come back to FTCC for additional education?	90%	100%	88.2%
Would student recommend FTCC to others?	100%	100%	94.1%

Comments:

SECTION 5: CERTIFICATES

Certificate	2008 - 2009		2007 - 2008		2006 - 2007	
	# Graduates	% Online	# Graduates	% Online	# Graduates	% Online

Comments:

SECTION 6: LICENSURE/CERTIFICATION:

Required for employment in program field: License Certification Not Applicable

License:	2008 - 2009		2007 - 2008		2006 - 2007		2005 - 2006		2004 - 2005	
Required Pass Rate for the Program (if applicable)										
	FTCC	Average	FTCC	Average	FTCC	Average	FTCC	Average	FTCC	Average
# Graduates Eligible to Take Exam										
# First-Time Test Takers Who Attempted Exam										
# First-Time Test Takers Who Passed Exam										
# Repeat Test Takers Who Attempted Exam										
# Repeat Test Takers Who Passed Exam										

Certification:	2008 - 2009		2007 - 2008		2006 - 2007		2005 - 2006		2004 - 2005	
Required Pass Rate for the Program (if applicable)	N/A		N/A		N/A		N/A		N/A	
	FTCC	Average	FTCC	Average	FTCC	Average	FTCC	Average	FTCC	Average
# Graduates Eligible to Take Exam	13		19		14		12		9	
# First-Time Test Takers Who Attempted Exam	8	21511*	14	50015	11	45045	12	49689	7	45991
# First-Time Test Takers Who Passed Exam	8 (100%)	15504* (72%)	14 (100%)	34871 (70%)	11 (100%)	31490 (70%)	12 (100%)	32319 (65%)	7 (100%)	35838 (78%)
# Repeat Test Takers Who Attempted Exam	0		0		0		0		0	
# Repeat Test Takers Who Passed Exam										

Comments:

*Data available through June 2009
Average numbers were obtained from PTCB and indicate total number of individuals that sat for the exam. Repeat examination data was not available.

SECTION 7: BUDGET

	2008 - 2009	2007 - 2008	2006 - 2007
# FTE Generated	26.74	30.09	31.45
# Instructor Positions Earned	1.22	1.36	1.42
# Instructor Positions Funded	2	2	2
Additional Positions Required	0	0	0
# Unfilled Positions	0	0	0
# Positions Lost (-) or Gained (+)	0	0	0

Last New Full Time Faculty Hire Date:

	2008 - 2009	2007 - 2008	2006 - 2007
Supplies Purchased (\$)	\$980.81	\$15,159.24	\$3042.66
Equipment Purchased (\$)	0.00	0.00	\$1936.70

Comments:

SECTION 8: FACULTY

Faculty	2008 - 2009		2007 - 2008		2006 - 2007		2005-2006	
	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
# Full Time Faculty	1	1	1	1	1	1	1	1
# Full Time Faculty Cross Teaching from Other Programs	0	0	0	0	0	0	0	0
# Part Time Faculty	1	1	1	1	1	1	1	1
Average Full Time Faculty Workload	17	24	17	24	17	24	17	24
# Semester Hours Taught by Full Time Faculty	17	24	17	24	17	24	17	24
# Semester Hours Taught by Part Time Faculty	6	10	6	10	6	10	6	10
% of Semester Hours Taught by Full Time Faculty	74%	71%	74%	71%	74%	71%	74%	71%

Identify the semesters in the 2008 - 2009 academic year in which the faculty credentials database was updated for the program:

- Fall
 Spring
 Summer

List the professional development activities completed this year to maintain currency in program:

Continuing Education Programs: Compounding Basics, Sterile IV Compounding, Pharmacy Technician Workforce, Bone and Joint Health, Motivational Interviewing, New Drug Update, Update in Pharmacy Law, Women's Health Issues

Comments:

SECTION 9: PROGRAM EVALUATION

Date of last internal program review	Fall 2008
Date of last program revision	Fall 2008
Date of last program competencies review	Fall 2008
Date of last internal certificate review	N/A
Last separate accreditation review:	Accreditation Agency: N/A
	Date:
Date of next separate accreditation review	N/A

Program Revisions:

- Curriculum Committee Approval: Yes No
 Substantive Change: Yes No
 Reported to SACS: Yes No N/A
 Reported to Accrediting Agency: Yes No N/A

Identify the three program competencies that were assessed in the 2008 - 2009:

Students will be able to use information to analyze problems and make logical decisions in the aseptic preparation of parenteral solutions.	<input checked="" type="checkbox"/> Met <input type="checkbox"/> Partially Met <input type="checkbox"/> Not Met
Students will be able to correctly perform calculations required to properly prepare medication orders.	<input checked="" type="checkbox"/> Met <input type="checkbox"/> Partially Met <input type="checkbox"/> Not Met
Clinical site preceptors will be satisfied with the student's educational preparation for the workplace environment.	<input checked="" type="checkbox"/> Met <input type="checkbox"/> Partially Met <input type="checkbox"/> Not Met

How have the results from the previous year's assessment cycle impacted the direction and/or emphasis of the program?

The Pharmacy Technology Department was pleased with the results from the assessment cycle. The Department chose to focus on skills that are important for entry-level technicians to be able to perform. Students continue to struggle with pharmacy calculations and the Department has decided to incorporate calculations throughout the entire curriculum. The Department hopes that this will strengthen the skill level of the technicians and give them more confidence as they apply math to real world situations.

SECTION 10: ADVISORY COMMITTEE

Dates of advisory committee meetings:

August 21, 2008

Are the minutes posted in WeaveOnline? Yes No

Members:	Qualifications/Affiliation:	# Years of Service
Bill Harris	Pharmacist/Highsmith-Rainey	2
Sam Hauser	Pharmacist/CVS	5
Tom Nicholson	Pharmacist/Cape Fear Valley	5
Jan Parish	Pharmacy Technician/Home Choice Partners	2
Lori Saunders	Pharmacist/Cape Fear Valley	5
Cramer Walker	Pharmacist/VAMC	5
Anita Wall	Pharmacy Technician/Cape Fear Valley	5

Recommendations from Committee:	Response/Action:
Committee reviewed new Associate Degree Program approved by the NCCCS. Committee agreed that current environment would not compensate for the advanced degree and that FTCC should continue to offer the Diploma only for now.	Department will offer Diploma only and will continue to monitor the pharmacy environment for changes. Advisory Committee will continue to discuss the Associate Degree and will recommend changes if needed.
Committee would like to see students exposed to brand/generic drug combinations earlier in the program so they have some working knowledge when clinical rotations begin.	Drug monographs were incorporated into PHM 111 lab (Fall Semester) and students learned to use drug information sources to identify the top 200 drugs and their major characteristics.

SECTION 11: RECRUITMENT/COMMUNITY INVOLVEMENT

List recruitment activities conducted during 2008-2009:

Department participated in campus tours, career days and health fairs in the community.

List community involvement activities for 2008-2009:

Dina Adams, Pharm.D., served as President-Elect for the CU College of Pharmacy Alumni Board of Directors; Dina Adams, Pharm.D., served on the Admissions Committee for CU College of Pharmacy; Dina Adams, Pharm.D. spoke at the Convocation Ceremony for the CU College of Pharmacy; Department worked with SRAHEC to offer more continuing education programs at a lower cost for pharmacy technicians; Dina Adams, Pharm.D. was appointed by the Pharmacy Technician Certification Board as an Item Writer for the national certification exam

List committees/other campus activities to improve the college for 2008-2009:

Learning Resources Committee, SACS Assessment Team, Organized and coordinated Advisory Committee Meetings, participated in student sponsored and college sponsored activities

SECTION 12: PLANNING ASSUMPTIONS (Cite sources of information)

Identify local trends that affect the program:

Short term (1-2 years): Job outlook should remain about the same; area facilities are increasing in size and offerings, however, budgetary constraints may prevent an increase in personnel; more automation in pharmacy practice sites; pharmacist shortage expected to continue; more sites are requiring pharmacy technicians to be certified by PTCB
(Advisory Committee, area pharmacists and pharmacy technicians)

Long term (3+ years): Job outlook should remain good; technology should continue to increase; home health care agencies should have an increase need in pharmacy personnel; clinical pharmacy technician jobs should increase; Board of Pharmacy should increase training requirements for technicians
(Advisory Committee, area pharmacists and pharmacy technicians)

Identify state/national trends that affect the program:

Short term (1-2 years): Employment opportunities expected to increase, increased responsibility in the workplace, increase in technology (Occupational Employment Statistics)

Long term (3+ years): As the population continues to age, employment opportunities should increase much faster than average for all occupations; increase in administrative duties; increase in legislation should increase the demand for highly trained technicians; technology should continue to advance (Occupational Employment Statistics)

Identify equipment, supplies, faculty, and facility needs required to meet these trends:

Short term (1-2 years): General lab supplies for PHM 111, PHM 118 and PHM 155 lab; no additional equipment, faculty or facility needs are identified at this time

Long term (3+ years): General lab supplies for PHM 111, PHM 118 and PHM 155 lab; no additional equipment, faculty or facility needs are identified at this time

Identify future wish items and their impact on the program:

Short term (1-2 years): Part-time clinical coordinator for PHM 136 to help assist in the recruitment and coordination of clinical sites for the pharmacy technology program

Long term (3+ years): Purchase of a Scriptpro or other automated system to increase technology use in all pharmacy technology lab sessions

Identify maintenance and repairs needed for offices and classrooms used by the program:

None are identified at this time.

Date program review is posted in WeaveOnline:

_____ Program Coordinator	_____ Date	_____ Dean	_____ Date
_____ Department Chair	_____ Date	_____ Associate Vice President for Curriculum Programs	_____ Date
_____ Division Chair	_____ Date	_____ Vice President of Academic and Student Services	_____ Date