A UNCG School of Pharmacy: Update for the Board of Trustees

The University of North Carolina at Greensboro
September 9, 2009
Pharmacy: The Need


- In 2008 the National Association of Chain Drug Stores reported that the nation’s chain stores alone had 5,705 unfilled pharmacy positions.
Pharmacy: The Need

- A 2002 study of the pharmacist workforce in NC by the Sheps Center for Health Services Research reported both a pharmacist shortage in the state as well as significant imbalances with respect to type of employment setting and rural location.

- A 2007 article published in the Journal of the American Pharmacists Association indicates the shortage of pharmacists in the U.S. will continue for the foreseeable future.
Pharmacy: The Need

- In 2008 the Pharmacy Manpower Project found Wisconsin and North Carolina to be the two states with the most acute shortage of pharmacists.

- In 2007 a life sciences company that would have resulted in $30 million in new capital investment and 1,000 jobs considered moving to Greensboro but did not because the total number of pharmacists within a 30 mile radius was inadequate for their needs.
Existing Capacity

- Recently UNC Chapel Hill received 800 applications for 155 positions in its School of Pharmacy.

- Wingate University received 1,112 applications for 70 seats; ratios for Campbell University are similar.

- Elizabeth City State University satellite program with UNC Chapel Hill serves approximately 20 students per class via distance education.
Why UNCG Pharmacy?

• Academic and research program in pharmacy would enhance research profile of UNCG while addressing one of the primary goals of UNC Tomorrow: economic development of the Triad and the State of North Carolina.

• UNCG has excellent undergraduate and graduate programs in the sciences, including the Ph.D. program in Medicinal Biochemistry.
Why UNCG Pharmacy?

• Logical extension of excellent academic and research programs, including the Joint School of Nanoscience and Nanoengineering, Nursing, Public Health, and the Bryan School of Business and Economics.

• Leverages collaborations with the Moses Cone Health System, the Wake Forest University School of Medicine, and many Triad-area hospitals.
Why UNCG Pharmacy?

• Commitment to access and affordability: the distinctive mission of a public university.

• Recruitment of pharmacy students from UNCG’s highly diverse undergraduate population (33% ethnic minority students in Fall 2009 freshman class) would help address the underrepresentation of minorities in the profession.
Community Support for UNCG Pharmacy

• Action Greensboro, the Greensboro Partnership, Greensboro Economic Development Alliance, several local foundations, and the area’s health care agencies.

• Additional clinical placements available from North Carolina Baptist Hospital and the five-hospital Moses Cone Health System, without infringing on needs of existing pharmacy schools.
Community Support for UNCG Pharmacy

- Joseph M. Bryan Foundation, Weaver Foundation, and others have committed to working with UNCG and the Greensboro Partnership to locate and secure a suitable site for the school with private support.
The Numbers

• When fully operational, the UNCG School of Pharmacy’s total annual budget would be $8 million and tuition revenue will be approximately $6.5 million.

• A research-oriented School of Pharmacy would be expected to generate between $5 and $6 million in sponsored research on an annual basis.
Start-up Funding

• Initial support provided by UNCG or UNC GA
• Tuition rates set at the average for top 25 state supported institutions
• Start-up funds do not include building construction and equipment
### Start-up Funding

<table>
<thead>
<tr>
<th>Year</th>
<th>Amount</th>
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<tbody>
<tr>
<td>2009-10</td>
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<tr>
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<td>$2,550,810</td>
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<td>2014-15</td>
<td>$1,658,370</td>
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## Pre-pharmacy Curriculum

(2 year)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Biology</td>
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<tr>
<td>Chemistry</td>
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<tr>
<td>Math/Physics</td>
<td>10</td>
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<tr>
<td>English</td>
<td>9</td>
</tr>
<tr>
<td>Electives</td>
<td>13</td>
</tr>
</tbody>
</table>

**Total** 60 semester hours
Professional Degree Program

• Four academic years of pharmacy coursework

• Three semesters (P-3 spring; P-4 Fall; P-4 Spring)
  – 2 months advanced rotations (institution/community)
  – 6 months patient care rotations
  – 3 months elective rotations
  – 2 months elective courses
  – 3 months off
Timeline

• Request for Authorization to Plan submitted to UNC General Administration on February 20, 2009.

• If approval to plan received this fall, approximate date for submitting Request to Establish proposal is July 1, 2010.

• Proposed date to establish degree: January 2011 to announce and August 2011 to admit first Pharm.D. class.
Status of UNG-GA Academic Program Planning

• “Implementing Revised Academic Program Review” document shared with Educational Planning Committee of BOG in August

• Committee agreed to restart review process

• CAOs to discuss at September meeting

• Tentative undergraduate, master’s, and doctoral degree program priorities identified
Tentative Priorities for Doctoral Degree Programs

• Dentistry
• Medicine
• STEM disciplines
• Physical Therapy
• Pharmacy
• Criminal Justice
• Faculty for Community Colleges
• Related BOG approved investments
A UNCG School of Pharmacy: Update for the Board of Trustees

The University of North Carolina at Greensboro
February 18, 2010
Greensboro City Council Resolution
(February 2, 2010)

• Whereas, the University of North Carolina at Greensboro (UNCG) has excellent undergraduate and graduate programs in sciences including a PhD in Medicinal Biochemistry, the Center for Drug Discovery, the Joint School of Nanoscience and Engineering with North Carolina A&T State University, Nursing, Public Health and Business Economics that would support a pre-pharmacy and profession degree programs and research related to drug discovery and delivery systems;
Greensboro City Council Resolution

• Whereas, the Chief Executive Officers of the Moses Cone Health Care System, Wake Forest University Baptist Medical Center, Forsyth Medical Center and High Point Regional Health System have expressed strong and enthusiastic support for a School of Pharmacy at UNCG;

• Whereas, the addition of a School of Pharmacy would enhance economic development in the area through construction/investment, design impact and the creation of jobs;
Greensboro City Council Resolution

• Whereas, the Greensboro Partnership and the Weaver and Bryan Foundations have pledged their support of the proposal;
• Whereas, a School of Pharmacy at UNCG responds to UNC Tomorrow, would be transformative for the University and would contribute to the economic development of Greensboro.
NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF GREENSBORO:

That it supports the addition of a School of Pharmacy at the University of North Carolina at Greensboro.

Adopted this the 2nd day of February, 2010
Consultants Visit, March 5, 2010

- Jordan Cohen, Interim Vice President of Research, University of Iowa
- Natalie Eddington, Dean and Professor, School of Pharmacy, University of Maryland-Baltimore
- Marilyn Speedie, Dean and Professor, College of Pharmacy, University of Minnesota
Agenda for Consultants

• Session I
  – Linda Brady, Chancellor
  – David Perrin, Provost and Executive Vice Chancellor
  – Randall Kaplan, Chair, Board of Trustees

• Session II: Academic/Research Administration
  – Dick Gourley, Consultant, College of Pharmacy, University of Tennessee
  – Timothy Johnston, Dean, College of Arts and Sciences
  – Lynne Pearcey, Dean, School of Nursing
Agenda for Consultants

• Session II: Academic/Research Administration
  – James Petersen, Dean, Graduate School
  – Joyendu (Joy) Bhadury, Associate Dean, Graduate Programs and Research, Bryan School of Business and Economics
  – James Ryan, Dean, Joint School of Nanoscience and Nanoengineering
  – Terri Shelton, Interim Vice Chancellor for Research and Economic Development
Agenda for Consultants

• Session III: Faculty
  – Patricia Reggio, Head, Department of Chemistry and Biochemistry
  – Nicholas Oberlies, Associate Professor, Department of Chemistry and Biochemistry (call in)
  – Phillip Bowen, Professor, Department of Chemistry and Biochemistry; Director, Center for Drug Discovery
  – Will Taylor, Senior Research Professor, Laboratory for Molecular Medicine, Office of Research and Economic Development and Department of Chemistry and Biochemistry
Agenda for Consultants

• Session III: Faculty
  – Wei Jia, Professor, Department of Nutrition; Co-Director, Center for Research Excellence in Bioactive Food Components, North Carolina Research Campus at Kannapolis
  – Nadja Cech, Associate Professor, Department of Chemistry and Biochemistry
  – Vincent Henrich, Professor, Department of Biology; Director, Center for Biotechnology, Genomics and Health Research
Agenda for Consultants

• Session IV: Academic Research Partnerships
  – William Applegate, President, Wake Forest University Health Sciences and Dean of Wake Forest School of Medicine, WFBUMC
  – Donald Cameron, President, Guilford Technical Community College
  – Harold Martin, Chancellor, NC A & T State University
Agenda for Consultants

• Session V: Greensboro Leadership and Potential Corporate Partners
  – Dan Lynch, President, Greensboro Economic Development Alliance
  – Jim Melvin, President and CEO, Bryan Foundation
  – Richard Moore, President, Weaver Foundation
  – Timothy Rice, President and CEO, Moses Cone Health System (call in)
Agenda for Consultants

• Session V: Greensboro Leadership and Potential Corporate Partners
  – Aqeel Fatmi, Global Vice President, Research, Development and Operations, Banner Pharmacaps
  – Adnan Mjalli, CEO, TransTech Pharma
Agenda for Consultants

• Session VI:
  – Linda Brady, Chancellor
  – David Perrin, Provost and Executive Vice Chancellor
Supplemental Materials to Request to Plan

- Greensboro City Council Resolution
- Support Letters
  - Don Cameron, President, GTCC
  - Bob Ingram, Vice Chairman Pharmaceuticals, GlaxoSmithKline
- Expanded Economic Impact Analysis
- Piedmont Triad Bioscience & Related Companies (~275)
Supplemental Materials to Request to Plan

- Number of Pharmacists per Firm in the Piedmont Triad (N = 960)
- Agreement to Develop a MOU on Admission of NC A&T Pre-Pharmacy Students to the Proposed School of Pharmacy
Timeline (Revised)

• Request for Authorization to Plan submitted to UNC General Administration on February 20, 2009
• BOG review of Request to Plan April, 2010
• If approval to plan received, date for submitting Request to Establish September, 2010
• Proposed date to establish degree: January 2011 to announce and August 2011 to admit first Pharm.D. class