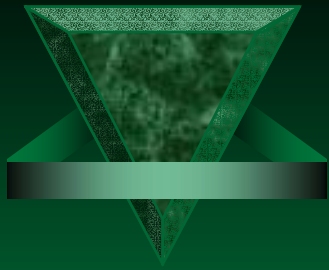


*“Nurse Practitioner Education and
Practice: A Discussion on NP
Education, Practice, Economics and
NP Utilization in Primary Care Settings
in NC”*

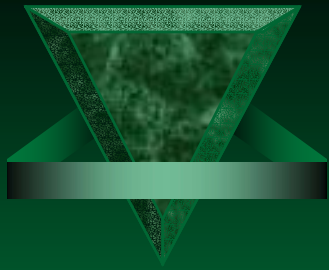
Bobby Lowery, MN, APRN, BC, FNP
Chair NCNA Executive Council of Nurse
Practitioners



21 NCAC 32M .0105: EDUCATION AND CERTIFICATION REQUIREMENTS FOR REGISTRATION AS A NURSE PRACTITIONER

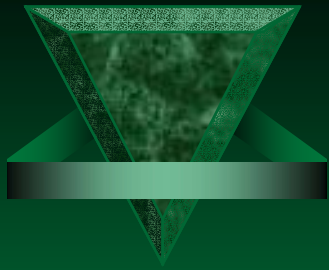
▼ a core curriculum

- 400 contact hours of didactic education
- 400 contact hours of Preceptorships or supervised clinical experience
 - National Certification requires 500 Clinical Hours
 - NC NP programs average a minimum 750-800 Clinical Hours



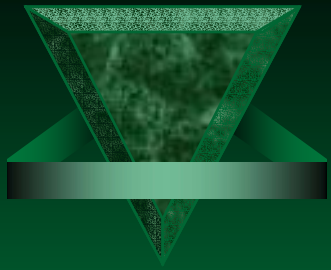
21 NCAC 32M .0105: EDUCATION AND CERTIFICATION REQUIREMENTS FOR REGISTRATION AS A NURSE PRACTITIONER

- ✓ The core curriculum shall contain the following components:
 - ✓ (A) health assessment and diagnostic reasoning including:
 - ✓ (i) historical data;
 - ✓ (ii) physical examination data;
 - ✓ (iii) organization of data base;
 - ✓ (B) pharmacology;
 - ✓ (C) pathophysiology;



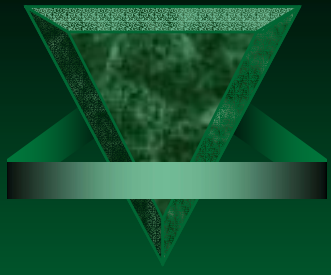
21 NCAC 32M .0105: EDUCATION AND CERTIFICATION REQUIREMENTS FOR REGISTRATION AS A NURSE PRACTITIONER

- ✓ (D) clinical management of common health problems and diseases such as the following shall be evident in the nurse practitioner's academic program:
 - (i) respiratory system;
 - (ii) cardiovascular system;
 - (iii) gastrointestinal system;
 - (iv) genitourinary system;
 - (v) integumentary system;
 - (vi) hematologic and immune systems;
 - (vii) endocrine system;
 - (viii) musculoskeletal system;
 - (ix) infectious diseases;
 - (x) nervous system;
 - (xi) behavioral, mental health and substance abuse problems;



21 NCAC 32M .0105: EDUCATION AND CERTIFICATION REQUIREMENTS FOR REGISTRATION AS A NURSE PRACTITIONER

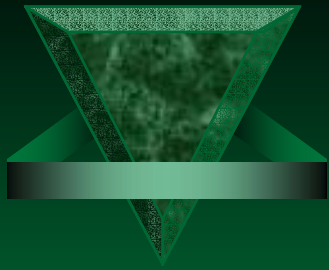
- (E) clinical preventative services including health promotion and prevention of disease;
- (F) client education related to Parts (a)(1)(D) and (E) of this Rule; and
- (G) role development including legal, ethical, economical, health policy and interdisciplinary collaboration issues.



Required Educational Components of **National Certifying Agencies** (ANCC, AANP)

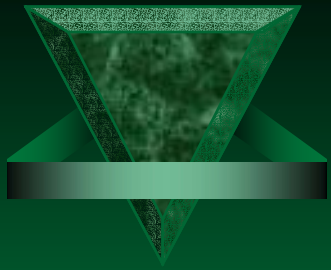
✓ Core content in **seven domains**

- Management of health/advanced illness states
 - Health promotion, health protection & disease prevention
 - Management of patient illnesses
- NP/Patient Relationships
- Teaching/Coaching function
- Professional Roles
- Managing and negotiating health care delivery systems
- Monitoring and ensuring the quality of health care practices
- Cultural competence
- Minimum of 500 hours of advanced clinical practicum.



NC UNIVERSITIES THAT OFFER NURSE PRACTITIONER PROGRAMS (N=7)

- ✔ **Greenville**
School of Nursing
East Carolina University
Greenville, NC 27858-4353
<http://www.ecu.edu>
- ✔ **Chapel Hill**
School of Nursing
UNC at Chapel Hill
CB #7460, Carrington Hall
Chapel Hill, NC 27599-7460
<http://www.unc.edu>
- ✔ **Charlotte**
School of Nursing
University of N.C. at Charlotte
9201 University City Blvd.
Charlotte, NC 28233
<http://www.uncc.edu>
- ✔ **Greensboro**
School of Nursing
University of N.C. at
Greensboro
P.O. Box 26172
Greensboro, NC 27402-6172
<http://www.uncg.edu>



NC UNIVERSITIES THAT OFFER NURSE PRACTITIONER PROGRAMS (N=7)

✓ **Durham**

Duke University
School of Nursing
Box 3322 DUMC
Durham, NC 27701

<http://www.duke.edu>

✓ **Winston-Salem**

Winston-Salem State University
The School of Health Sciences
601 Martin Luther King, Jr. Dr.
Winston-Salem, NC 27110

<http://gorams.wssu.edu>

✓ **Wilmington**

School of Nursing
UNC at Wilmington
601 S. College Rd.
Wilmington, NC 28403-3297

<http://www.uncwil.edu>

Western Carolina University

(828) 670-8810 - Candler/Enka Campus
(828) 277-3521 - Cullowhee
www.wcu.edu/aps/nursing
School of Nursing
Cullowhee, NC 28723
✓ Nursing Education
✓ Family Nurse Practitioner (FNP)
Post Masters Certificate Program:
Family Nurse Practitioner (FNP)

Winston Salem State University

(336) 750-2570
www.wssu.edu/nursing
School of Nursing
601 Martin Luther King, Jr. Drive
Winston-Salem, NC 27110
✓ Family Nurse Practitioner (FNP):
Minority Health Concentration
Psychiatric/Mental Health
Concentration
Post Masters Certificate Program:
Family Nurse Practitioner (FNP)

UNC at Greensboro

(336) 334-5261
<http://www.uncg.edu/nur/>
School of Nursing
PO Box 26170
Greensboro, NC 27402-6170
✓ Nursing Administration
✓ Nursing Education
✓ Nurse Anesthesia
✓ Nurse Practitioner/Adult and Gerontology
✓ MSN/MBA
✓ Adult Clinical Nurse Specialist
Post Masters Certificate Programs: Adult
and Gerontology Nurse Practitioner,
Nurse Anesthesia, Adult CNS
Post Baccalaureate Certificate Programs:
Nursing Education, Administration, Case
Management, and Gerontology

East Carolina University

(252) 328-4302
www.nursing.ecu.edu
School of Nursing
Rivers Building, Room 132
Greenville, NC 27858
✓ Nurse Anesthesia
✓ Adult Health Nursing
✓ Family Nurse Practitioner (FNP) - online
✓ Neonatal Nurse Practitioner (NNP) - online Fall 2004
✓ Clinical Services Administration
✓ Community Health (choose from two focus areas:
Direct Care, Leadership)
✓ RN to MSN Option
✓ Alternate Entry MSN
Post-Masters Certificate Programs: Family Nurse
Practitioner, Neonatal Nurse Practitioner, Nurse
Midwifery, Nurse Anesthesia and Nursing Education

Gardner-Webb University

(704) 434-4360
www.nursing.gardner-webb.edu
School of Nursing
PO Box 7268
Boiling Springs, NC 28017
✓ Parish Nursing
✓ Nursing Education
✓ Nursing Administration
✓ MSN/MBA (Dual Degree)
✓ RN to MSN Completion Program

Queens University of Charlotte

(704) 337-2276
www.queens.edu
mcgillj@queens.edu
or Vail Program of Nursing
(800) 849-0202
1900 Selwyn Avenue
Charlotte, NC 28274
✓ MSN (Health Systems Management focus)
✓ MSN/MBA (Dual Degree)
✓ RN to MSN Completion Program
Post Masters Certificate Program:
Nursing Management

Duke University

(919) 684-3786
<http://nursing.duke.edu>
School of Nursing Box 3322
DUMC
Durham, NC 27710
✓ Nurse Practitioner: Adult Acute Care, Adult Primary Care, Adult Cardiovascular
Care, Adult Oncology/HIV, Gerontological, Neonatal, Pediatric Primary Care,
Pediatric Acute Care, Family
✓ Clinical Nurse Specialist: Oncology/HIV, Pediatrics, Pediatric Acute Care,
Neonatal, Gerontology, Critical Care Adult Health Systems Leadership and
Outcomes (Administration)
✓ MSN/MBA
✓ Clinical Research Management
✓ Leadership and Community-based Long-term Care
✓ Health and Nursing Ministries (MSN)
✓ Health and Nursing Ministries (Masters in Church Ministries)
✓ Health and Nursing Ministries (Combined MSN/MCM)
✓ Nurse Anesthesia
✓ Nursing Education
Post Masters Certificate Programs: Health Systems Leadership and Outcomes,
Informatics, Clinical Research Management, Acute Care, Adult Nurse
Practitioner-General Primary Care or Cardiovascular, Family Nurse Practitioner,
Gerontological, Oncology/HIV, Neonatal, Pediatric, Pediatric Acute

UNC at Charlotte

(704) 547-4687
www.uncc.edu/colleges/health/
School of Nursing
9201 University City Boulevard
Charlotte, NC 28223
✓ Nurse Anesthesia
✓ Advanced Practice Nursing in Adult Chronic Care (blended role CNS/ANP)
✓ Family Nurse Practitioner (FNP)
✓ Psychiatric/Mental Health
✓ Community Health
✓ Nursing and Health Administration (MSN/MHA) Dual Degree
✓ RN to MSN Completion Program
Post Masters Certificate Program: Nurse Anesthesia

www.med.unc.edu/ahec/welcome.htm

East Carolina University School Of
Nursing

UNC at Chapel Hill

(919) 966-4260

www.unc.edu/depts/nursing/

School of Nursing

Carrington Hall, CB # 7460

Chapel Hill, NC 27599

- ✓ Adult Nurse Practitioner
- ✓ Health Care Systems: Options in Outcomes Management, Informatics, Administration, Education
- ✓ Pediatric Nurse Practitioner (PNP)
- ✓ Primary Care Family Nurse Practitioner (FNP) without/with Rural Community-Oriented Primary Care Option
- ✓ Psychiatric/Mental Health (PMH) Advanced Practice Nurse: Clinical Nurse Specialist, PMH Nurse Practitioner
- ✓ Women's Health Care Nurse Practitioner
- ✓ Women's Health Clinical Nurse Specialist
- ✓ RN to MSN program in any speciality track

Post Masters Certificate Programs: Nursing Education, Health Care Systems, Outcomes Management, Informatics, or Nursing Administration, Nurse Practitioner (Adult, Neonatal, Pediatric, Primary Care-Family, or Women's Health Care), Psychiatric/Mental Health Advanced Practice (Clinical Nurse Specialist or PMH Nurse Practitioner)

UNC at Wilmington

(910) 962-4187

www.uncwil.edu/son/

School of Nursing - Hoggard Hall

601 South College Road

Wilmington, NC 28403-3297

- ✓ MSN, Family Nurse Practitioner (FNP)

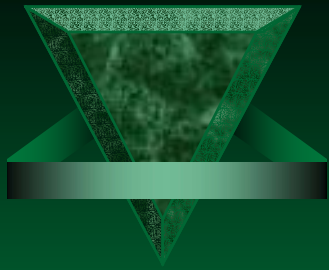
North Carolina AHEC Program Office

CB# 7165, Wing C

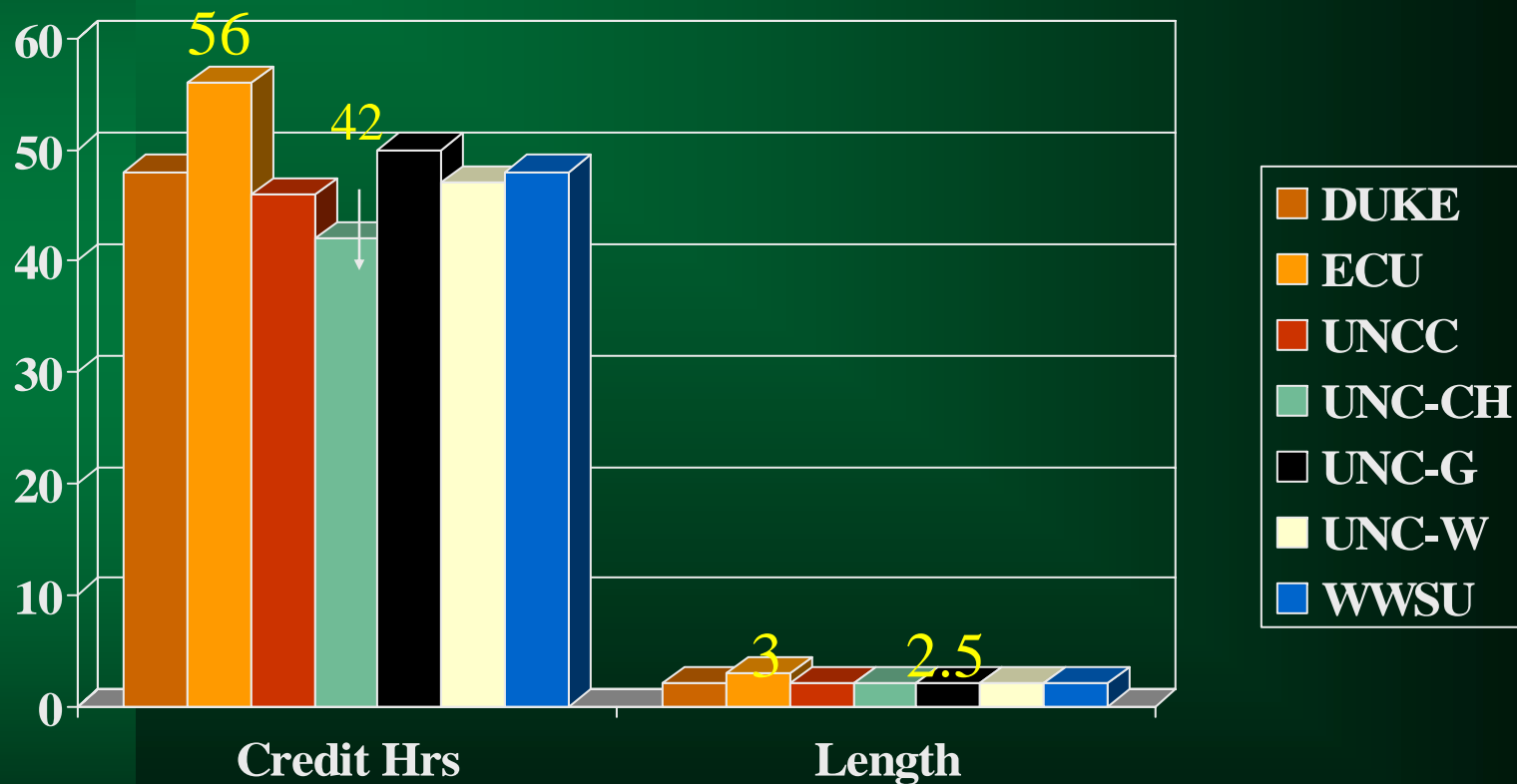
School of Medicine, UNC-CH

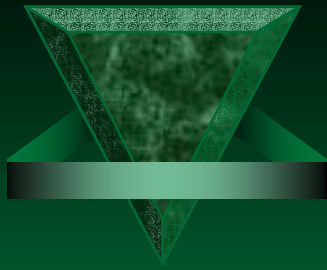
Chapel Hill, NC 27759

(919) 966-2461

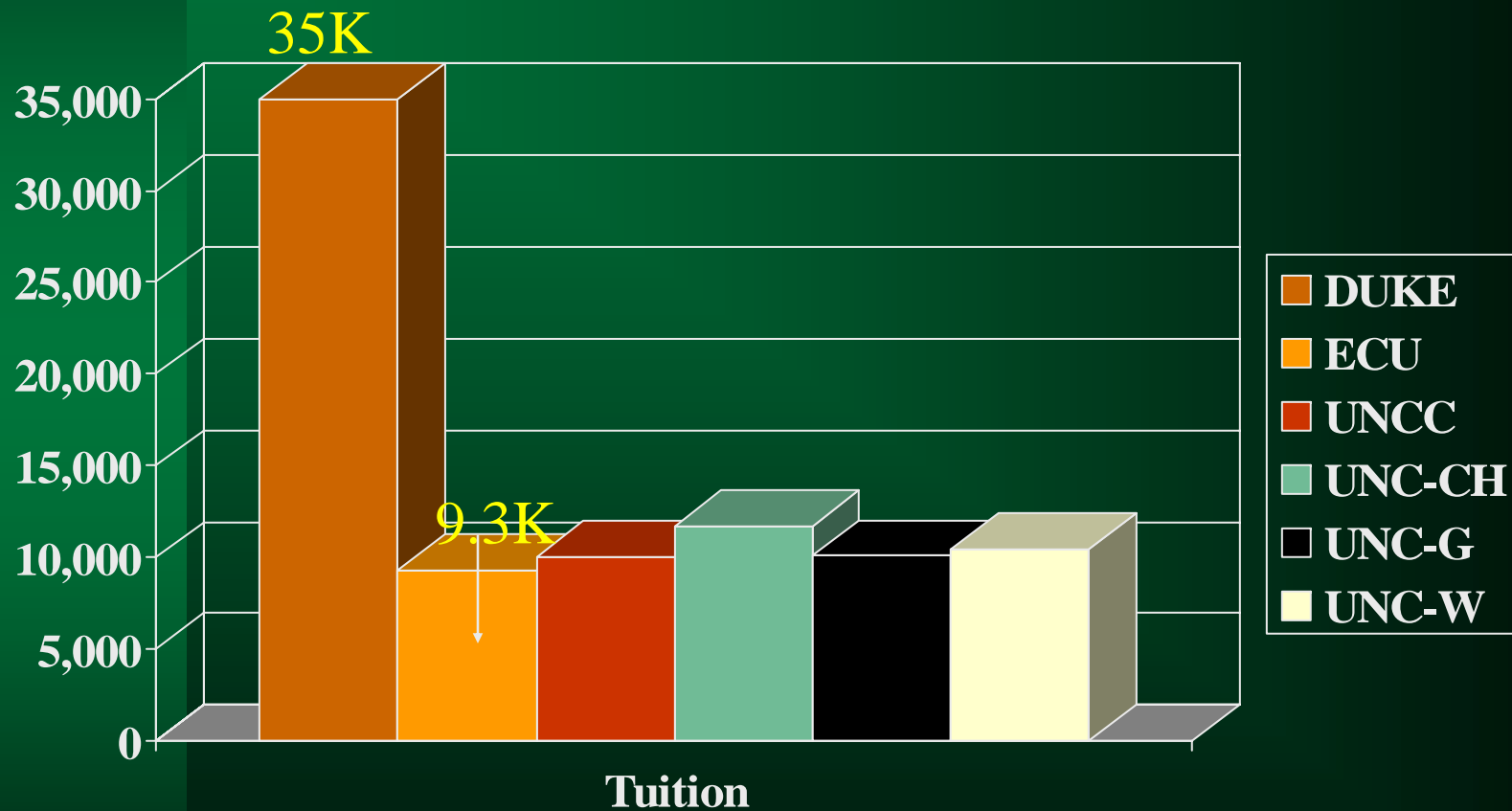


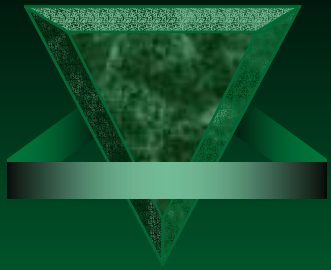
NP Program Lengths



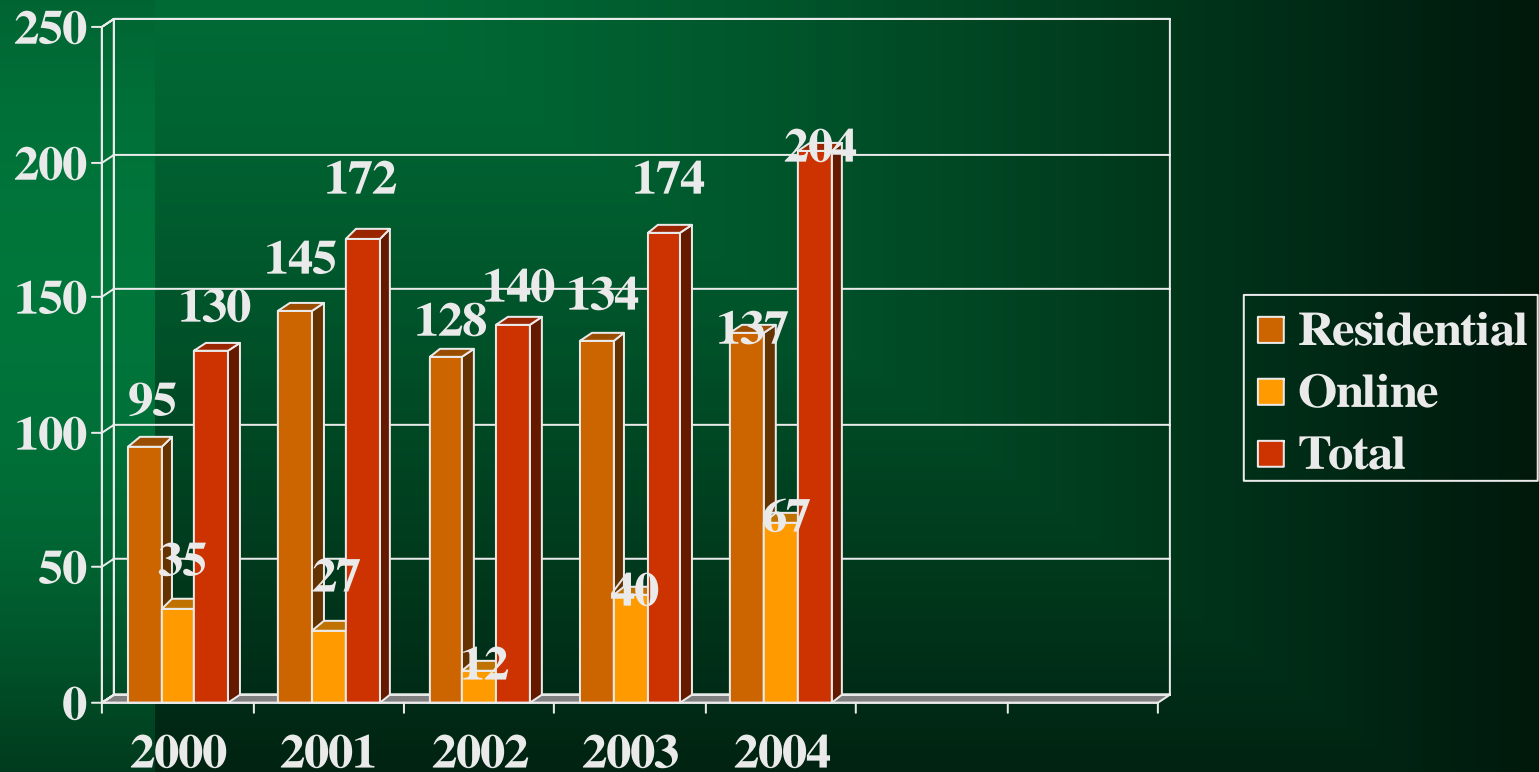


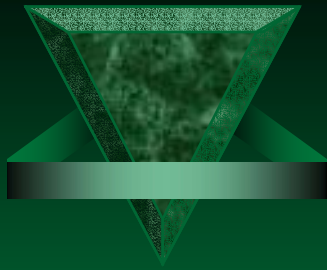
Economics of NP Education





Enrollment in UNC NP Programs 2000-2004

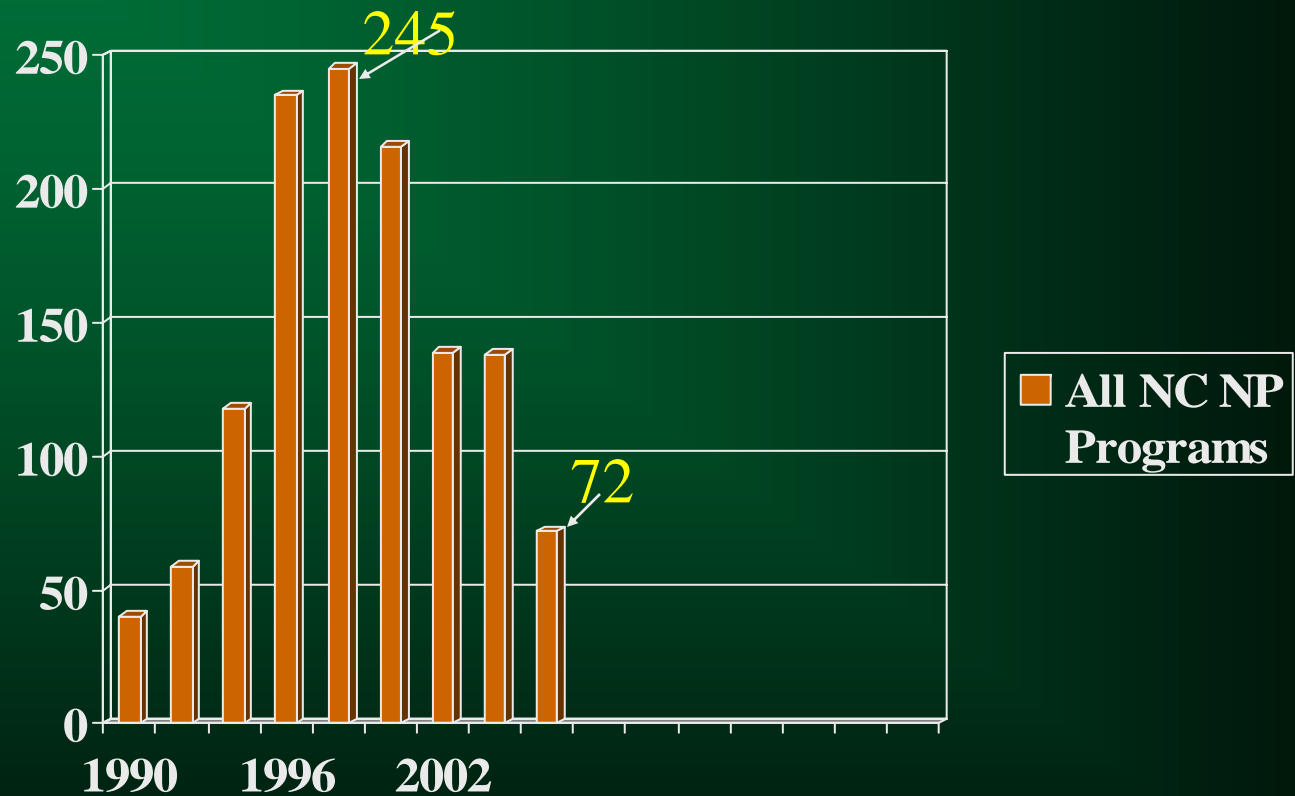


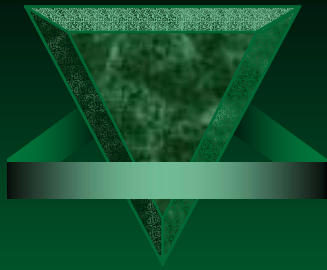


New NP Graduates from NC NP Education Programs (1990-2005)

Source: *Cindy Thomas NC BON 2/3/05*

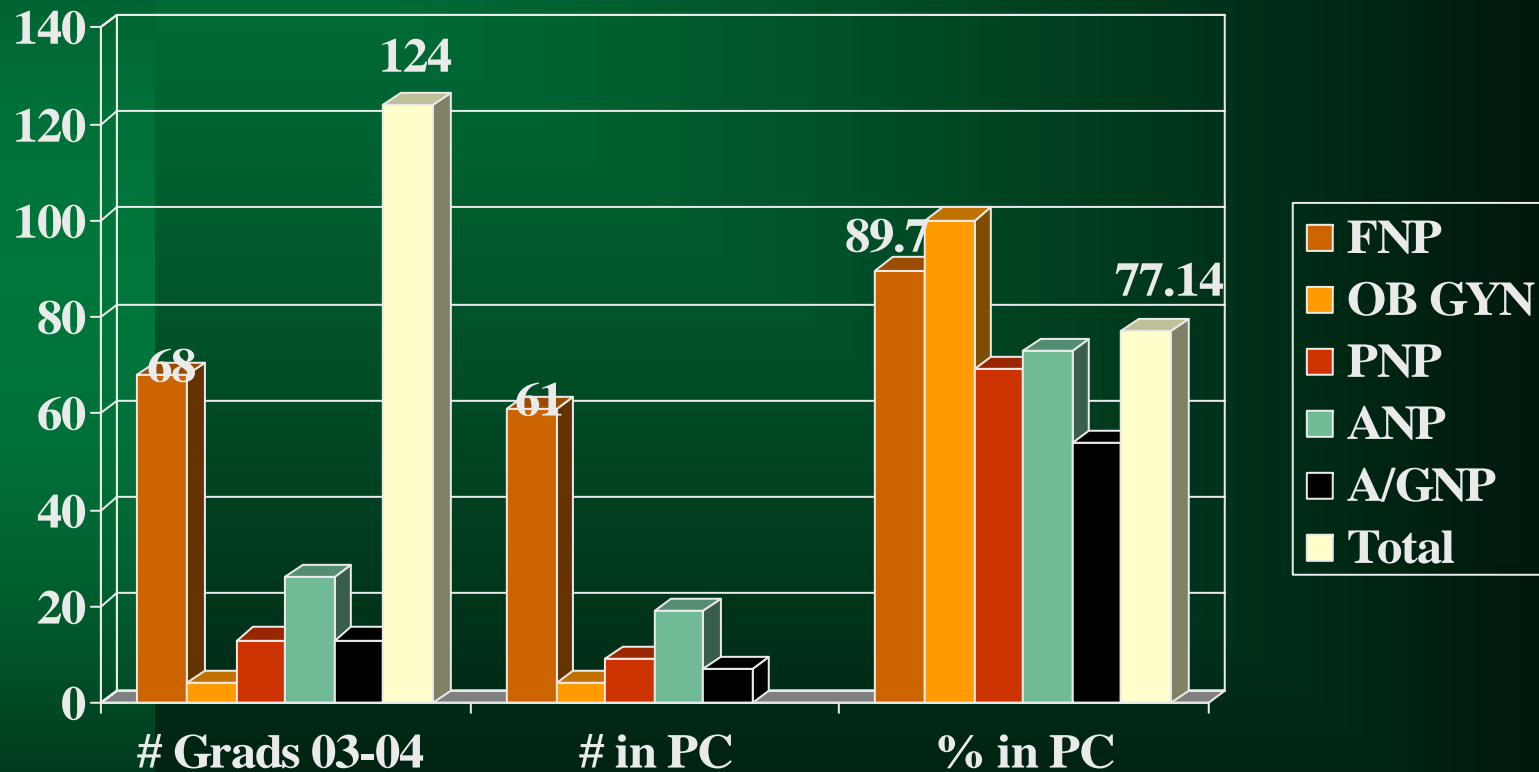
& *Erin Fraher, <http://www.shepscenter.unc.edu/hp/index.html>*

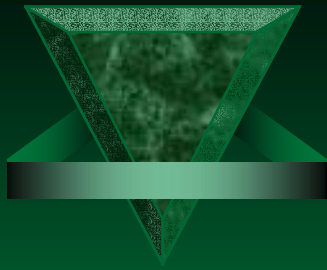




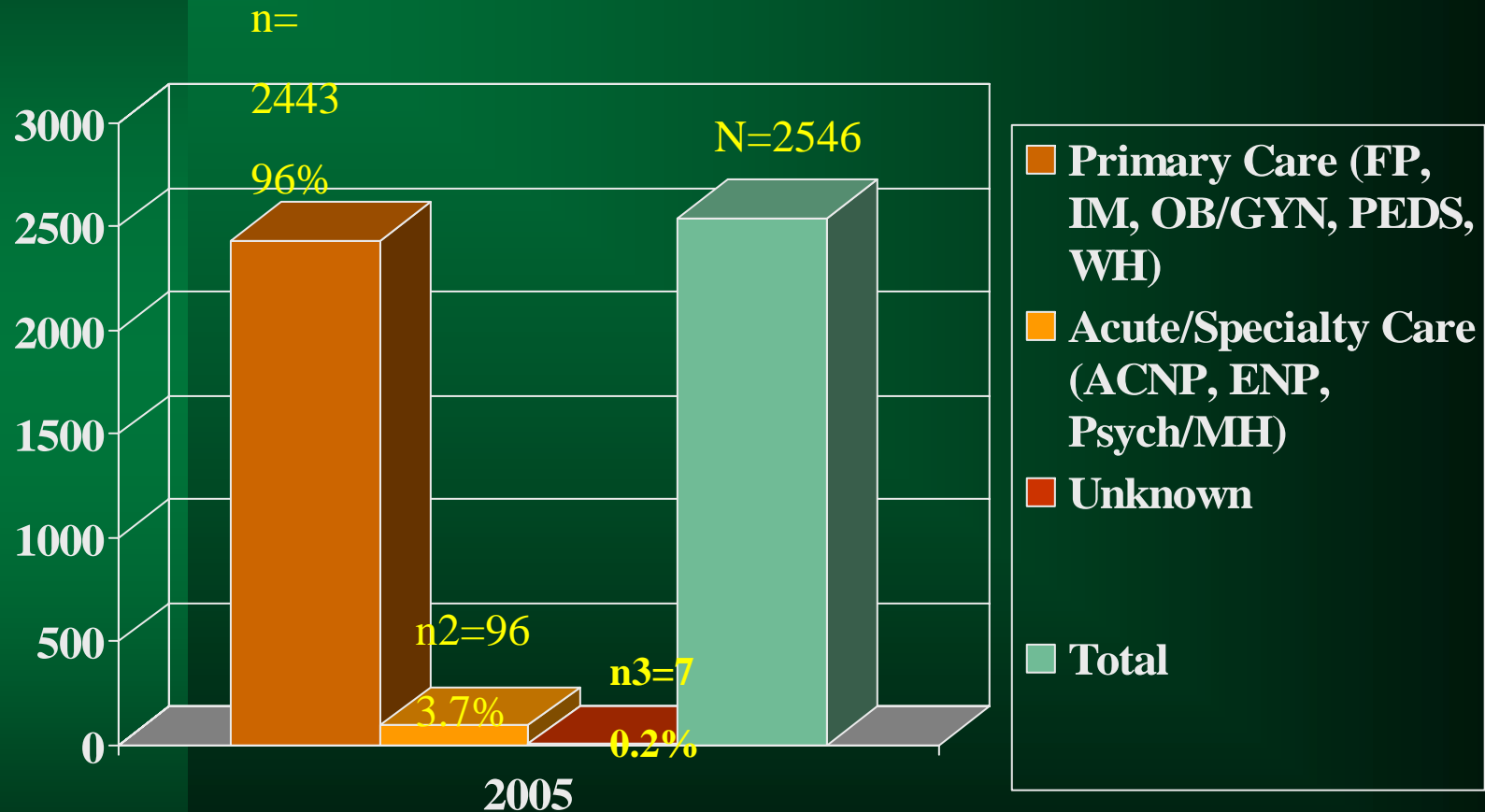
NC NP Graduates from UNC System SONs 2003-04

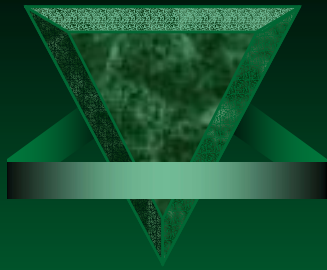
Source: ECU UNC Report 2005. Dr. Sylvia Brown





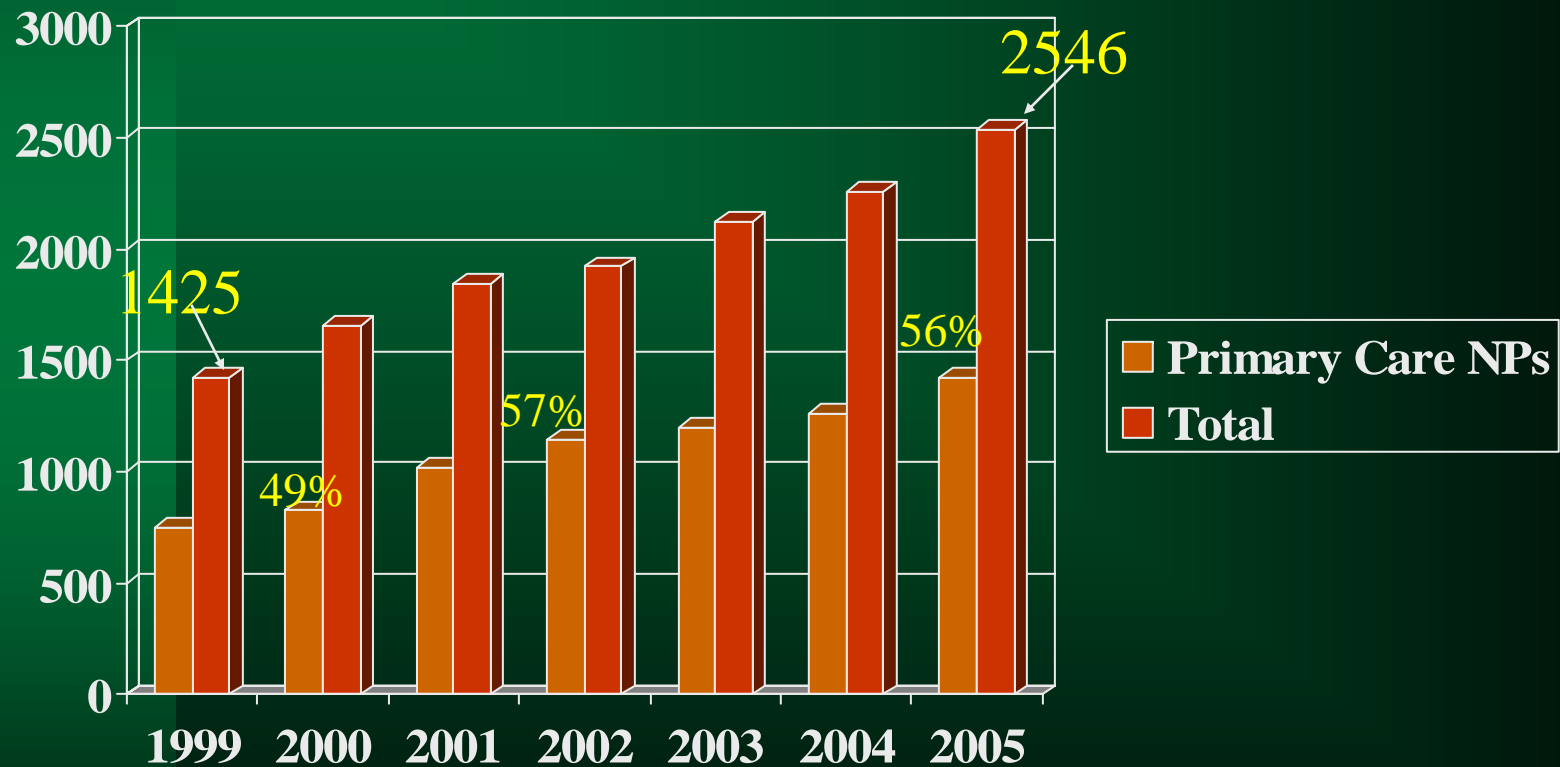
NP Certification

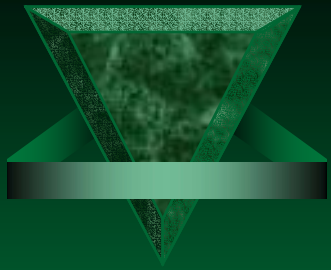




NPs Registered in NC & Percent Working in Primary Care Settings

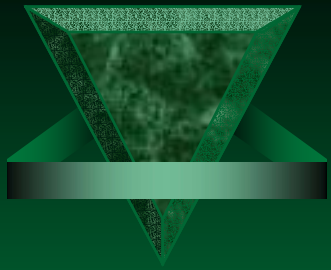
Source: Erin Fraher, MPP <http://www.shepscenter.unc.edu/hp/index.html>





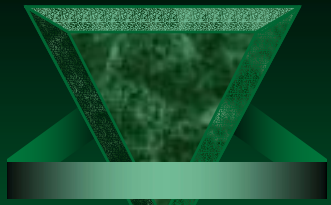
Disparate Supply and Demand

- ✔ Sharp **decline in documented NP Grads** since 2000
- ✔ Sharp **increase in number of registered NPs** in NC
- ✔ Suggests large percentage of current NP supply coming from other states
- ✔ Possible confounding variable: “Large packet of NP applicants who do not have secured employment” per Jean Stanley @ NCBON
- ✔ Decrease in NP Grads related to Nursing Faculty Shortages, competition for clinical sites & non-traditional students/part-time study leading to longer trajectory for graduation (avg. part-time program= 5 yrs)



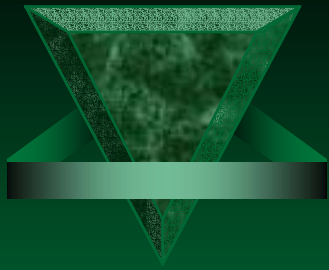
Future of APRN Education

- ✓ In October 2004, the American Association of Colleges of Nursing (AACN) proposed the **DNP (Doctorate of Nursing Practice)** as the entry degree for all advanced practice nurses, including NPs.
- ✓ **AACN:** <http://www.aacn.nche.edu> is a good source for the position paper and some related documents
- ✓ **NONPF:** National Organization of Nurse Practitioner Faculty
<http://www.nonpf.org/NONPF2005/PracticeDoctorateResourceCenter/PDResourceCenter.htm>



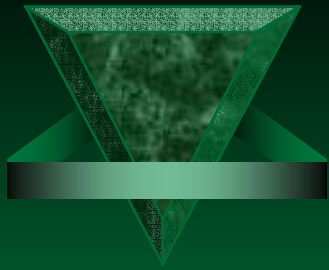
Conclusions

- ✓ NP Education Standardized from both regulatory and certifying bodies
- ✓ NP Curriculum Avg
 - 48 hrs
 - 5 semesters
 - Cost \$9,300 (Public); \$35,000 (Private)
- ✓ Sharp **Decline in NP Graduates** with concurrent sharp **increase in NP Registrants** suggesting large percentage of new NPs are coming from other states.
- ✓ Decline in # NP Grads related to limited faculty resources, non-traditional students & part-time study leading to a longer trajectory of up to 5 yrs to complete studies.
- ✓ Most NPs Certified in Family Practice
- ✓ > 75% New Grads and > 50% of all NPs working in primary care settings.
- ✓ NP education cost effective relative to cost of other health disciplines?
- ✓ Strong move toward Doctoral Preparation by AACN



References

- ✓ NC Board of Nursing (<http://www.ncbon.com>) Cindy Thomas 2/3/06
- ✓ North Carolina Health Professions Data System (HPDS). Erin Fraher, MPP.
<http://www.shepscenter.unc.edu/hp/index.html>
- ✓ American Academy of Nurse Practitioners <http://www.aanp.org>
- ✓ National Organization of Nurse Practitioner Faculties
<http://www.shepscenter.unc.edu/hp/index.html>
- ✓ http://www.finance.uncc.edu/Tuition_and_Fees.htm
- ✓ <http://nursing.unc.edu/degree/msn/fnp.html>
- ✓ http://www.uncw.edu/grad_info/grad_support.html
- ✓ <http://cashiers.unc.edu//tuition%20and%20fees%202005-06%20final%20revised%20102405.pdf>
- ✓ <http://www.nursing.ecu.edu/>
- ✓ ECU UNC Report FNP NM 2005.doc



- ▼ Questions?
- ▼ Comments?
- ▼ Thank You!