Innovative Academic Programs for Global Graduate Education

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A Unifying Vision

NC State’s strategic vision pledges that we will:
“transform lives and improve the human condition.”

We fulfill our vision through creative scholarship, strategic research, and global partnerships.
Strategic Research Areas at NC State

Strategic Focus Areas
- Health & Well-Being
- Energy & Environment
- Educational Innovation
- Safety & Security

Cross-Cutting Initiatives
- Advanced Materials & Manufacturing
- Advanced Computing and Networking
- Evaluation, Policy & Leadership
- Innovation Network

Economic & Societal Benefit
Total = 203 (including 51 Bilateral Student Exchange Agreements)
Strategies and Initiatives

1. Promote strategic partnerships-
   with matching mission/strengths; for teaching, research, economic engagement

2. Joint Academic programs-
   creative partnership for joint/dual-degrees

3. Curriculum integration at home-
   the key strategy for campus globalization for student and faculty global competence
Example of a Major Partnership - ZHEJIANG UNIVERSITY

- Joint faculty appointments for research & grants
- Graduate research student exchanges
- China Scholarship Council PhD students
- Scholarships for NC State students to Zhejiang for BS, MS and PhD
Study Abroad Programs to China
Most at Zhejiang University
Example: A Joint Academic Program – “3+X BS and Master Combo”

- BS and Master combo – accelerated master program at NC State
- 3 years in ZJU and 1+ years at NC State
- Finish graduate courses (30-36 hrs) for a professional master degree in selected fields
- BS from ZJU and Master from NC State
Example- “3+x” program with National Chiao Tung University

- BS + Master combo – accelerated master program at NC State
- 3 years in NCTU and 1 + years at NC State
- Finish all required graduate courses (30-36 hrs) for a Master degree in selected fields
- BS from NCTU and Master’s degrees from NC State
Joint & Dual International Degrees

- Strategic approach for international collaboration in high education
  - Build strong and long-lasting institutional partnerships
  - Promote curriculum integration with global perspectives (complimentary strengths)
  - Engage faculty for global exchange and scholarship
Joint and Dual International Degrees

• Enhanced learning experience and global competence
  – Produce more degree-seeking students than typical exchange programs
  – Enhanced academic learning with global content and competence for faculty/students
  – Increased cross-cultural and international understanding
  – Value-added and improve students’ employability in globalized economy
Joint vs Dual Degree Programs

- Collaborative academic degree programs with integrated curriculum by two or more partner universities

  - **Joint degree program**
    Complete the specified collaborative academic program and receive only one diploma issued by both universities

  - **Dual degree program**
    Complete the collaborative academic program and receive one separate diploma from each of the two universities (“Double” degree programs)
Dual International Degrees @ NC State University

- NC State implemented 8 dual degree programs in the last 3 years
- 4 graduate degree programs
  - 2 Master’s and 2 PhD degrees
- 2 EU-Atlantis Master’s degrees
- 2 undergraduate degree programs
Example:
Master of Global Innovation Management

NC State MGIM Web Site

http://mgt.ncsu.edu/mgim/
Program Arrangements

Fall Semester - France

Spring Semester - USA

Summer
USA, Europe
Other Graduate International Dual Degree Programs

• Seoul National University (PhD in Genomics)
• National Chiao Tung University (PhD in Industry & System Engineering)
• University of Surrey (Master of International Studies)
• U of Helsinki, SLU (Sweden)- (Masters of Forest Resources)
Dual PhD Degree in Genomics and Biotechnology with SNU

- Co-Supervision – One joint advising committee with co-chairs (one from each) and faculty advisors from both institutions
- Credit Transfer - Up to half of the total credits (72) required for the host institution’s degree are transferable from the home institution for an equivalent degree at the host institution
- Thesis and Defense – both in English

- *Dual PhD in Genomics, 2010 from NC State University and Seoul National University (one international degree)*
Curriculum Integration

• Most important for graduate STEM students

• Integration of study abroad in academic curriculum, global content in courses and international research experience

• Global Perspective Certificate for all graduate students
Global Perspectives Certificate

- University-wide certificate program
- Require 4 components:
  - Academic Coursework
  - International Experience
  - Co-curricular and Service Activities
  - Final Project
- Official certificate on transcripts for global job competitiveness
Develop Global Field Research Experience for Graduate Students

Are you a GRADUATE STUDENT with the desire to increase the competitiveness of your degree program with a truly INTERDISCIPLINARY experience?

Come Experience South Africa!

- Enjoy close encounters with large mammals and even larger ancient trees.
- Interact with top scientists from University of Pretoria, North Carolina State University, and others.
- Conduct field research in rural communities joining Kruger National Park and the Zimbabwe Border.
- Gain knowledge and experience in socio-ecological research, including the complex relationship among resource use, community well-being, ecosystem resilience and climate change.
- Produce collaborative publishable research and valuable products for communities in need.

NR 595 – Socio-Ecological Research Methods – 6 Credits
May 8 – June 11, 2011
$4,500 (not including airfare) – SCHOLARSHIPS AVAILABLE!!
Apply to participate ASAP – Space is very limited!!
Contact Dr. Melissa McHale for more info: mrmchale@ncsu.edu
Innovative Academic Programs for Global Graduate Education

• Strategic Partnerships
• Joint Academic Programs
• Curriculum Integration

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