



# GRADUATE SCHOOL *of* ARTS AND SCIENCES

ANNUAL REPORT  
2007-2008



WAKE FOREST  
UNIVERSITY

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Annual Report  
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## **1. MISSION STATEMENT**

“The faculty of the Graduate School, operating within the framework of the principles of Wake Forest University, is dedicated to research, productive scholarship, and teaching in a community committed to expanding the frontiers of knowledge and educating students who will become independent, intellectual leaders in their fields.

The faculty would like to instill in the Wake Forest graduate students a sense of professionalism, which includes the ethical behavior inherent in their professional role, as well as respect for their colleagues, their field, and for society as a whole. The faculty wants students to be critical, independent thinkers and good citizens. The students should be motivated to apply their scholastic efforts to enlighten and improve the well being of society.” *As adopted by the Graduate Council, April 2007.*

## **2. 2007-2008 IN REVIEW**

### **a) Overview**

The past year has been a watershed one for the Graduate School -- marked by the arrival of a new dean (Dr. Lorna G. Moore), expansion of the Graduate School administration to include a second Associate Dean (Dr. Linda C. McPhail), appointment of Associate Dean (Dr. Randall G. Rogan) with the ending of Associate Dean Cecilia Solano's term of appointment, and approval for the creation of an Office of Postdoctoral Affairs to be headed by an Assistant Dean (Dr. Dwayne W. Godwin). The administration of the Graduate School is listed in Appendix A.

Leadership changes also occurred in many of our graduate programs with Bridget Brosnihan (Molecular Medicine), David Goff (Clinical and Population Translational Sciences), Martin Guthold (Physics), and David John (Computer Science) taking on the directorship or co-directorship roles formerly carried out by their colleagues. The standing committees of the Graduate School and representatives to University committees are listed in Appendix B.

A record number of PhD students graduated, with a continued strong showing in the number of master's degree recipients. Especially noteworthy was the number of publications, presentations at professional meetings, and extramural awards generated by these students, as well as the high proportion (22%) of under-represented minorities among our PhD graduates. Several new programs were approved and planning for other new initiatives moved forward.

Significant changes also took place within the University administration with the implementation of the Reynolda Campus Strategic Plan under Provost Jill Tiefenthaler's leadership, the arrival of the Law School Dean Blake Morant, and the announcement of Steve Reinemund as the new Dean for the Wayne Calloway School of Business and Accountancy and the Babcock Graduate School of Management. School of Medicine Dean William Applegate combined his duties with those of the Interim President for Wake Forest University Health Sciences (WFUHS) while the search for a new CEO to head WFUHS and the North Carolina Baptist Hospital took place.



## **b) Graduate Programs**

### **i. Highlights of Degree Programs**

The graduate programs are listed in alphabetical order in Table 1, comprising 14 master's, three PhD, and one certificate program at Reynolda and four master's, 11 PhD, and two joint programs at Bowman Gray.

The **Accountancy** master's program introduced three new courses and a track in Transaction Services, involving coursework in Babcock, as well as Calloway. One of its students received a Federated Schools of Accountancy national award. A successful diversity initiative was begun, in which 18 students from various historically black colleges and universities (HBCUs) came to campus in January for a two-day event, resulting in over 10% of the incoming class consisting of minorities.

**Biochemistry and Molecular Biology** had four students graduate with PhDs and one with a master's degree. A highlight was the development of an interdisciplinary curriculum in drug discovery, funded by the Dreyfus Foundation, which allows faculty, undergraduate, and graduate students from several departments and programs to work synergistically with industry during a 3-month summer internship.

**Biology** faculty, undergraduate, and graduate students generated 55 publications, made 49 presentations at professional meetings, and received \$2.5M in extramural funding. Graduate students worked as teaching assistants in a record number of undergraduate labs as the number of majors and demand for coursework continued to grow. Graduate students won nine awards -- four regional, four national, and one for the best "basic science" poster at the WFU Graduate Student Research Day.

**Biomedical Engineering** added new faculty in biomechanics and tissue engineering. As its joint program with Virginia Tech completed its sixth year, three students completed their PhDs, three graduated with master's degrees, and five new courses were introduced. The program is reaching its enrollment target with 28 students currently enrolled, all of whom are supported externally after the first year.

**Cancer Biology's** multidisciplinary and translational training program graduated seven students who had collectively received 21 awards. The program attracted a record number of applicants, 30% more than in previous years. Its students have successfully obtained fellowships from the Defense Department, the American Foundation for Aging Research, and a National Institutes of Health (NIH)-National Cancer Institute training grant currently in its 20th year. To facilitate such efforts, the program will begin a grant-writing workshop for students and fellows in 2008.

**Chemistry's** graduate program continued to attract high-quality applicants. Students together with faculty made 22 seminar or professional-meeting presentations and coauthored 18 publications. Such contributions to faculty research programs helped to fuel 37 external grant proposals, of which 12 were funded, for a total of \$1.6M and four internally for an additional \$72,600. The department actively participated in hosting visiting chairs, regional meetings, and social events, and has created monthly newsletters for its faculty, staff, and students, as a means for maintaining high visibility.

**Communication** continued its strong teaching, research, and service-related activities, with its faculty publishing 27 articles, 10 book chapters, and making 63 presentations at national meetings. Three external and 9 internal grants were awarded. Two professors received national recognition for their distinguished service to the profession. Student involvement in scholarly activities is strong at the undergraduate level; four graduate students received Richter awards in support of their master's thesis research. Departmental faculty, a graduate-program alumna, and current collaborators in the developing bioethics MA program were featured at the Fall 07 *HOT TOPICS* community forum.

**Computer Science** graduated nine students, one also receiving the Structural and Computational Biology certificate, two continuing as doctoral students at WFU (physics and biochemistry), and others finding employment with a range of organizations, including Northrop, Google, and WFUHS. Several students presented papers at national or international conferences and three won "best-poster" awards at WFU's Graduate Student Research Day. Its students played active leadership roles in the Graduate Student Association and the "Knowledge to Work" program, and won numerous awards (a Richter Travel Award, 7 WFU Summer Research Scholarships, a Google Summer Award, and a summer internship with the WFUHS Office of Technology Asset Management (OTAM)).

**Counseling** received two national awards (the Outstanding Counselor Education Master's Program and the Counselor Education Advocacy Award), with its faculty also winning individual awards and having an award named in honor of the department chair at the March 2008 American Counseling Association Conference. The Department received high marks during its external review, being termed "most likely the best master's degree program in counseling in the United States." Its students published the first issue of a literary magazine devoted to the art of counseling (*Catharsis*) and won two Richter scholarships. Its 15 graduates are leaving for a range of exciting job opportunities, with six enrolling in doctoral programs.

**Education** underwent national and state-level accreditation reviews, as well as WFU external and internal review processes. The accreditation team concluded that all programs met all standards and hence its program received full accreditation for another seven years. All 23 students presented at the Teacher Education Research Forum held at WFU in December, with their work being published in *Studies in Teaching* in the ERIC database. The Spring Leadership Seminar was held in March at WFU, with students and faculty attending from Winston-Salem State University and North Carolina A & T University. All 17 initial-licensure students completed their internships in local public schools and will begin teaching careers in the fall. The six advanced-licensure students submitted electronic teaching portfolios for faculty evaluation in May.

**English** students were active during the 2007-08 academic year, presenting 13 papers at regional meetings and two national conferences. Two MA candidates won Richter Awards and two graduates are going on to PhD programs.

**Health and Exercise Science** students participated in numerous regional and national meetings, being finalists for the best student and best new investigator awards. Its faculty published 32 peer-reviewed articles; made 41 presentations at regional, national or international meetings; submitted 26 external research proposals with over \$1.6M being awarded; and were active collaborators with a broad range of WFU departments or programs (Biology, Communication,

Computer Science, Chemistry, Physics and Psychology at Reynolda and Allergy & Immunology Diseases, Biomedical Engineering, Biostatistical Sciences, Cardiology, Critical Care, Endocrinology, Family and Community Medicine, Gerontology, Hematology and Oncology, Human Genomics Center, Neurology, Pathology, Pediatrics, Pulmonary, Radiology, Sports Medicine, Surgery, and the Translational Science Institute at Bowman Gray).

**Health Sciences Research** program (HSRP) recruited its final class of eight students in the fall of 2007, having replaced this program with a new MS program in Clinical and Population Translational Science (CPTS) in order to train students more specifically in the translation of basic research findings for use in clinical and community populations. The HSRP program will continue to be active until all 23 current students have graduated. Six students completed their master's degrees, with three having received prestigious teaching, research, or education-related awards. Its students also played active leadership roles in the Graduate Student Association.

**Master of Arts in Liberal Studies** offered a number of new courses and graduated 12 students this academic year. One of its students received a Richter award.

**Mathematics** admitted a strong incoming class and produced graduates who will move on to teaching positions at the high school level, a master's program in teacher education, and three entering PhD programs (UC Berkeley, Tufts, and Louisiana State University).

**Microbiology/Immunology** had a very successful year with six students completing their PhDs, each of whom had won a national award and collectively garnered 13 awards, as well as publishing numerous manuscripts and presenting their work at national and international meetings. Continuing students are enjoying similar success, three of whom received NIH or American Heart Association (AHA) fellowships. The program continues to facilitate career development and is in the process of setting up a database to serve as an informational resource for students who are considering careers outside of academia.

**Molecular and Cellular Pathobiology** faculty obtained two important grants; a NIH-Heart Lung and Blood Institute program project and a new T-32 training grant. These and additional awards enable faculty from five departments and students from four programs to apply state-of-the-art research techniques to problems in the lipid sciences. Four PhD students graduated, several having received scholarly awards. A member of its faculty was elected to chair the Arteriosclerosis, Thrombosis, and Vascular Biology Council of the American Heart Association.

**Molecular Genetics and Genomics** graduated five PhD students who had collectively won six national awards. Students continuing in the program are excelling as well, with several receiving dissertation-related research support and opportunities to take summer courses in their specialty.

**Molecular Medicine and Translational Science** (MMTS) modified its title to reflect its focus on training translational scientists in molecular principles of human health and disease, and the institution-wide support for translational research initiatives. The overall objective of the MMTS program is to integrate training in the basic sciences with clinical applications in order to be better able to treat human disease. Highlights included a course on functional genomics, submission of a renewal for a NIH-General Medical Sciences T-32 training grant, and a Burroughs-Wellcome grant for a collaboration involving MMTS and CPTS. A record ten students graduated with PhDs and one with a MS; these students had collectively garnered 35 awards. Students



continuing in the program are setting a similarly stellar course, already having received nine local or national awards.

**Neurobiology and Anatomy** had three students complete their PhDs. These and continuing students have received awards enabling them to present their research findings at national and international meetings. The development of an international joint program in cognitive neuroscience with the University of Bologna (Italy) and other institutions culminated with the arrival of a student from Italy this summer.

**Neuroscience** students received individual NIH fellowships in record numbers this past year. In addition to graduating five students with PhDs and one with a Masters -- who collectively had won nine local or national awards -- the program successfully recruited all six of its top recruits for the 2008 fall class.

**Physics** faculty continued to attract major research dollars, bringing in \$3.8M to their or related departments. Its faculty published 39 articles involving eight graduate students; presented over 65 papers at regional, national or international conferences; and submitted 10 patents with two companies being spun off through the affiliated Nanotech Center. Strong collaborations exist within the department, as well as with faculty and students from other WFU units. Its faculty and students were actively involved in organizing five conferences -- including a Gordon Research Conference, the NC Biophysical Symposium, and the Nanotech Center's workshop on "Hyperthermia and NanoMaterials: Nanotechnology approaches to Medicine" attended by international and national researchers.

**Psychology** students received a Fulbright Scholarship for work on civic development in The Netherlands, the WFU Gordon Melson Outstanding Master's Student Award, and the Best Poster award at the Association for Research in Personality national meeting. Graduates are moving on to a range of jobs and programs, including the Social/Personality PhD program at Washington University.

**Physiology/Pharmacology** introduced a new graduate curriculum that includes a one-year survey course in the first year, with individually-gearred electives in the following year. Its four graduating PhD students collectively received 11 awards, one of which was the Gordon Melson Outstanding Doctoral Student Award. A new level of student funding was achieved with 14 of 18 eligible students garnering predoctoral fellowships. One faculty member received a prestigious award as the outstanding national neuroscience educator.

**Religion** faculty concentrated on expanding the active-learning aspects of their teaching and offering more 700-level courses. Faculty were active in publishing in national and international venues, as well as providing leadership in disciplinary societies.

## **ii. Highlights of Certificate and Joint-Degree Programs**

A **MA (Religion)/JD** joint-degree program was approved by Graduate Council and awaits discussion with the Provost.

The **MD/PhD** joint-degree program completed its 11<sup>th</sup> year, having admitted a total of 23 students and graduating five. Its 16 active students are engaged in medical school training or

PhD research in approximately equal numbers. Some 49 persons applied for its two scholarships, demonstrating the program's high selectivity. All its students or alumni are active in competitive residency or fellowship programs in Neuroradiology, Radiology, Radiation Oncology, or Pathology, with seven students having received NIH or other fellowships.

The **MDiv/MA (Counseling)** joint-degree program will enroll its first three students in Fall 2008.

The **Medieval Studies** certificate program was approved by Graduate Council and implemented following discussions with the Provost. This is an option for students to acquire a concentration in medieval studies while earning a MA in English or Religion by taking an additional 12 semester hours of coursework without adding cost or time to degree completion. As such, it will provide national distinction to these WFU's master's programs. One MA (English) student is already pursuing this option and attending the University of Oxford this summer. Program faculty are pursuing opportunities to obtain external funding from sources such as the Mellon Foundation.

The **PhD/MBA** joint-degree program offers training for motivated students seeking to combine administration and management with PhD training. It is open to all PhD-granting units and is a cooperative venture between the Graduate School of Arts and Sciences and the Babcock Graduate School of Management. Beginning in 2000, it was the first such program of its kind in the nation and the first to graduate students. Students enter after having completed all their research-related coursework and receive a half tuition scholarship toward the cost of the MBA. While the program remains small, it has graduated five students within the desired target duration for a PhD (five yrs) and currently has two active students. Its alumni are active in the pharmaceutical and biomedical-device industries, as well as in pursuit of classic academic careers. Program growth is anticipated with the growth in translational emphases.

The **Structural and Computational Biology** certificate program entered its third year and graduated its second student, who also earned a MS degree in Computer Science and will be entering the WFU Biochemistry and Molecular Biology PhD program this fall. The SCB Program hosted five interdisciplinary discussion sessions throughout the year with speakers from five different WFU departments. Over 24 faculty, research associates, and students attended each discussion session.

### **iii. Strengths and Weaknesses in Teaching, Research and Service**

#### **Teaching**

Strengths: Faculty with high-level commitment and passion for the subject matter are participating in graduate education out of desire, not externally-imposed necessity, so as to enable them together with their students to actively expand our frontiers of knowledge.

Weaknesses: Time for graduate teaching is limited by competition from undergraduate teaching responsibilities, pressures for maintaining research funding, and the lack of formal recognition of teaching at the Bowman Gray campus.

## Research/Creative Activity

Strengths: The high caliber of the work being done -- especially in the biomedical, biophysical, chemical, life sciences, and engineering -- is revolutionizing our understanding of disease mechanisms throughout the lifespan and actively extending our ability to put such knowledge into practice.

Weaknesses: Research aspirations are limited in the social sciences and humanities by the concentration of WFU's PhD programs in the above sciences and engineering, the lesser availability of extramural funding, and perceptions about the job market.

## Service

Strengths: Service is a fundamental part of the WFU ethos. The capacity to serve is being actively grown in many programs (e.g., counseling, education, religion, and student associations), demonstrated in others by the nature of the faculty and student body and extended internationally through interactions here and abroad.

Weaknesses: Basically none, other than the perhaps inevitable competition from day-to-day responsibilities limiting the amount of time available.

### c) Graduate School Activities

#### i. Activities Taking Place in 2007-2008 in Relation to Graduate School/WFU Strategic Plans

Two sorts of strategic planning activities were carried out last year. One was directed by Interim Dean Cecilia Solano and involved the 11 members of the Graduate Council, plus its two student representatives, the 12 Reynolda Campus graduate program directors, and the 13 Bowman Gray Campus program directors. It yielded the document *Mission, Values, and Vision/Priorities, Goals, Strategies* that summarized the activities or interests of the Graduate School in relation to the five goals of the Wake Forest University strategic plan; namely:

- Goal 1: Enhance faculty distinction,
- Goal 2: Build academic programs of nationally recognized excellence,
- Goal 3: Attract talented and diverse student body and develop exceptional leaders,
- Goal 4: Create a wider sense of community, and
- Goal 5: Strengthen Wake Forest's connection to the community beyond campus.

The other was a strategic vision for the Graduate School developed by Dr. Lorna G. Moore during the course of her being hired as the new Dean. This vision consisted of a series of Graduate School goals for advancing, in turn, the WFU Strategic Plan. There is considerable overlap between these two in terms of the kinds of specific activities recommended, as demonstrated by the table below (Table A).

**Table A. Graduate School 2007-08 Activities Relation to the WFU Strategic Plan**

<b>Graduate School Goals</b>	<b>2007-08 Activities</b>
1. Build community ( <i>WFU Strategic Plan's goals #2 and 4</i> )	a) Multiple 1:1, group program director meetings b) First all-WFU program director meeting c) New Associate Dean for Recruiting d) Introduced <i>HOT TOPICS</i> community forums e) Expanded Graduate Student Research Day f) Website revamping to improve coverage, readability
2. Increase student, program support & quality ( <i>WFU Strategic Plan's goal #3</i> )	a) Budget reviews for each program b) Raise student stipends (Bowman Gray) c) Promote collaboration to improve recruitment d) Use Hearst monies to attract minorities (Reynolda) e) Improve computers distributed to students
3. Stimulate faculty productivity ( <i>WFU Strategic Plan's goal #1</i> )	a) Align practices with policy re 1 <sup>st</sup> yr stipends b) Foster procedures to increase efficiency (Prospector database, exit surveys) c) Promote faculty, program collaboration
4. Expand graduate programs, faculty participation ( <i>WFU Strategic Plan's goals #2 and 5</i> )	a) Create a template for proposing new programs b) Increase translational activity (CPTS, MMTS) c) Broaden program range (medieval studies, bioethics) d) Begin discussion of program organization e) Continue other activities featuring the Graduate School

In relation to the Graduate School's goals for 2007-2008, building community was regarded as the starting point because it permitted the new Dean to become acquainted with the individual programs, their directors, faculty, and students and also permitted the creation of a foundation for advancing the other goals. Building community was advanced by:

- Multiple one-on-one meetings with each program director, classroom visits, and attendance at a faculty meeting for each program. These activities were coupled with an exhaustive review of program budgets and their tabulation according to a common format. The budget reviews were shared with each program director and department chair and presented via group meetings with the information being released in such a fashion that only each director knew the identity of his/her program. The process revealed considerable variation among programs, with the proportion of total support coming from WFU being greater overall at Reynolda and for some versus other units at Bowman Gray.
- Program director meetings at each campus and the first broad-ranging all-WFU program directors meeting were held to address budgetary, program organization, professional development, website, planning for new programs, and other topics.
- A new Associate Dean was appointed to help with recruiting high-quality and especially minority students, as the mission of the Graduate School to train the next generation of leaders can only be fulfilled if such leaders represent the full range of persons present in the broader community.
- *HOT TOPICS* community forums were initiated in order to better acquaint the University and Winston-Salem communities with graduate programs by showcasing how our faculty and students work together to advance our knowledge and understanding of the world. The Fall program featured the Communication department and a program entitled "Language, Technology and You: Social and Moral Controversies Transforming Public Life," which addressed how technology affects our ability to be human and to solve pressing societal

problems. The Spring program was titled “Tissue Engineering and Stem Cells: Current Concepts and Future Trends” and was organized by Institute of Regenerative Medicine faculty and its allied graduate programs.

- Graduate Student Research Day was held in conjunction with the Spring *HOT TOPICS* session. A record number of students and faculty attended, with students presenting their work and faculty participating as judges in order to recognize outstanding merit.
- We revamped our website to facilitate navigation and access to materials, broaden its coverage, and make its appearance more attractive.
- Building community also, importantly, included becoming acquainted with members of the Board of Visitors for the College and the Graduate School (whose names are listed in Appendix C). Dean Moore attended the Summer Leadership Conference at the Greenbrier and, together with Associate Deans Solano and McPhail, the fall and spring Board of Visitors meetings to review plans for and accomplishments of the Graduate School.

Collectively these activities addressed the following concerns raised within the 2006-07 strategic planning process carried out by Interim Dean Solano:

Increase information exchange within the Graduate School (WFU Goal #4)  
Hire an Associate Dean to work on recruiting (WFU Goal #2)  
A call to create a research forum (WFU Goal #4)  
Increase reporting of Graduate School activities to the WFU community (WFU Goal #4)  
Revise the website (WFU Goal #3)

Our 2<sup>nd</sup> goal -- increase student, program support and quality -- was addressed through

- The budgetary review described above and
- The arguments generated by this budget review, as well as by comparisons with peer institutions that demonstrated the need to raise student stipends for the Bowman Gray Campus programs. Because most stipends at Reynolda are paid to teaching assistants (TAs) and our budgetary review demonstrated that the system for assigning TAs was quite variable, we decided that a TA audit was needed in order to decide student stipends at the Reynolda Campus.
- The overlapping nature of many of the Bowman Gray graduate programs provided the opportunity to increase collaboration among programs in order to matriculate the best students.
- Hearst monies were used to improve minority recruitment by making it known that such awards should be used to attract students rather than to use them as rewards for students who had already accepted.
- We worked with John Henderson to improve the quality of computers provided master's and doctoral students at Reynolda.

These activities addressed the following items in the 2006-07 strategic plan:

Increase stipends to be competitive with peer institutions (WFU Goal #3)  
Use Hearst monies to attract more diverse student body (WFU Goal #3)  
Improve university computer distribution (WFU Goal #3)

The 3<sup>rd</sup> goal -- stimulate faculty productivity -- was addressed through multiple means.

- The realization that some programs were receiving a higher proportion of institutional dollars than others prompted us to reinforce the policy that, except for emergencies, Graduate School stipends were to be used only for 1<sup>st</sup> year students. This was accomplished by adjusting the number of admissions by the number of stipends committed to students in their 2<sup>nd</sup> year or beyond. This prompted an increase in the number of students placed on faculty grants and in grant submissions.
- Another means was to foster procedures that used faculty and staff time more efficiently by, for example, acquiring a database that could be used to search for students who were potential applicants for a given graduate program. Additionally, we shared the findings from the student's exit surveys with program directors, something that had not been done before. We also revised the electronic thesis and dissertation process (ETD) by simplifying it and mandating its implementation.
- We promoted faculty and program collaboration by having the bi-campus meetings of the program directors mentioned above, inviting all PhD programs to participate in "PhD Weekend," and facilitating the admissions process in instances where a given student was accepted into multiple programs.

These activities addressed several items within the 2006-07 strategic plan; namely,

Increase number of graduate students (in some programs) (WFU Goal #1)  
Analyze/revise the distribution of graduate student stipends (WFU Goal #2)  
Increase administrative support from the Graduate School to programs via feedback from the exit survey (WFU Goal #2)  
Institute the ETD system (WFU Goal #2)

Our 4<sup>th</sup> goal -- expand number of graduate programs, faculty participation -- was addressed by:

- Creating a template for proposing new graduate programs that permitted greater clarity as to the items required and the steps to be taken for review.
- Revising two programs to increase their translational emphases, as described above for the Health Sciences Research/Clinical and Population Translational Science and the Molecular Medicine and Translational Science programs.
- Broadening the program range with the approval of a certificate program with which English or Religion master's students can achieve a concentration in medieval studies without lengthening the time to degree completion. Budgetary and other kinds of planning continued for the MA in Bioethics to enable admission of students in Fall 2009.
- Introducing the findings of the Carnegie report, *The Formation of Scholars*, in order to encourage more coherent organization among WFU programs. A bi-campus meeting was followed by small-group discussions, in order to initiate particular steps for improving program coherence at WFU in the near future.
- Promoting other activities that featured the Graduate School, such as interviewing applicants for tenure-track positions at Reynolda; sitting on the Reappointment, Tenure and Promotion Committee at Bowman Gray; participating in annual faculty evaluations at Reynolda; and providing assistance to units hosting professional conferences (e.g., the NC Biophysical Symposium).



- More 700-level courses (grad only) were created in several units, including religion.

These activities related to the following items in the 2006-07 WFU Strategic Plan:

Increase administrative support from the Graduate School to programs via standardizing the process for creating new programs (WFU Goal #2)  
 Focus on institutional strengths in the natural/life/information sciences, social sciences, humanities, and professional schools and expand number of students or programs in these areas (WFU Goal #2)  
 Improve coordination between the College and the professional schools (WFU Goal #3)  
 Involve Graduate School Dean in hiring and promotion (WFU Goal #1)  
 Provide formal acknowledgment of graduate teaching in the annual faculty evaluation process (WFU Goal #1)  
 Host professional conferences (WFU Goal #5)  
 Support student community-outreach activities (WFU Goal #5)  
 Reduce the usage of 3xx/6xx courses (WFU Goal #2)

## **ii. Learning Outcome Goals and Relevant Assessment Activities**

The learning-outcome goals for our students are to demonstrate:

- 1) Mastery of the core concepts and methods of the discipline or interdisciplinary area,
- 2) Ability to implement these in an effort to improve societal well-being, and
- 3) Meet other, more immediate goals established at the unit level.

Assessment activities were carried out during the past year at departmental, programmatic, and Graduate School levels. For example, Health and Exercise Sciences developed and implemented a formal review process for all TAs in which a full-time faculty member made classroom visits each semester, conducted a formal evaluation, and discussed this with the graduate student in a timely manner.

Assessment at the Graduate School level occurs when the program is proposed, during the regular accreditation-related review, by means of exit surveys, and via recommendations for changes stemming from review of the Graduate School's Annual Report. When a new program is proposed, it is sent for review to the Graduate Council as stipulated in the Graduate School Bylaws and, if approved, to the Graduate Faculty as a whole, the Graduate School Dean, the Provost or Dean of the School of Medicine/Interim President of Health Affairs as appropriate, and finally the Board of Trustees. A template was created this year to clarify the kind of information required; it specifies that the proposal must describe the program's objectives and justification; marketing and recruiting plans; a detailed description that includes the plan of study, standards of the program for retention, candidacy, and graduation; the process for tracking and evaluating the success of the program; the plans for implementing program improvements; and a detailed budget.

A regular accreditation-related review takes place on a seven-year cycle at Reynolda, at which time the graduate program undergoes a self-study, internal as well as external reviews, and evaluation of these materials by the units, the Deans of the College and of the Graduate School, and the Provost. These efforts culminate in a jointly-constructed memorandum of understanding

that specifies the actions to be taken and is signed by the Deans of the College, Graduate School, Provost, and departmental chair. All programs have been reviewed at least once according to this system and most twice. Substantive changes have occurred and the system, overall, has proven very satisfactory from the point of view of the participants. On the Bowman Gray campus, the biomedical graduate programs are reviewed as a whole every seven years. This review also consists of a self-study and internal and external reviews. The last review was conducted in 2005.

Additional means used by the Graduate School for evaluating its programs include the exit survey conducted by each student at the time of his/her graduation. This survey evaluates both the operations of the Graduate School and of the program itself. Most programs also conduct annual surveys of their doctoral and master's students, some of which ask them to evaluate and comment on the strengths and weaknesses of their programs one year after their graduation. Changes have been made as a result of these exit surveys, such as the initiation of the Grad 700 and 701 Professional Development courses on the Bowman Gray campus.

### **iii. Efforts to Make the School More Inclusive**

The Graduate School's student body is comprised of 72% white, 11% under-represented minority, and 17% international students. Females represent 56% of the total. We graduated a record number of under-represented minority PhD students this year: 11 out of 49 were African-American (22%), two were Asian-Americans, and five were international students. However, continuing and incoming students are not as diverse as desired, especially among master's programs.

The new Associate Dean for Recruiting, Dr Linda C. McPhail, is engaged in several kinds of specific activities to make the School more inclusive; namely:

- Combining funding from a variety of sources to support a record number of undergraduates (33) in an 8-week biomedical research training experience this (2008) summer and to structure this experience so as to maximize the number of under-represented minorities (URM). The success of this is demonstrated by the fact that, for the first time, the majority (64%) were URM. Funding was obtained from a range of sources; namely, the Graduate School (7 students); the NIH T35 grant for Excellence in Cardiovascular Research (PI: Debra Diz, 12 students); the Wake Forest University Translational Science Institute (3 students); the NSF-funded HBCU-UP program at Johnson C. Smith University (2 students); the National Institute on Drug Abuse/the Center for the Neurobiological Investigation of Drug Abuse at Wake Forest University/the Center for Drug Discovery at the University of North Carolina at Greensboro (1 student); the National Institute for Diabetes, Digestive, and Kidney Diseases' STEP-UP program administered by Penn State College of Medicine (1 student); and individual faculty laboratories (7 students).
- Helping to finalize international cooperative programs with the University of Bologna, Italy and with several Brazilian universities. The Bologna program offers a joint degree in Cognitive Neuroscience. The first student enrolled in this program in June 2008. The Brazil program is funded by the US Department of Education for Improvement of Post Secondary Education and the Brazilian Ministry of Education's Office for Improvement of Higher Education Personnel. Its purpose is to train USA and Brazilian students in

integrative biology and to widen the participants' horizons by strengthening the interchange of cultural and scientific values. Emphasis is placed on increasing diversity in the sciences by including schools with large minority populations as partners to encourage students from under-represented groups to participate in foreign exchange activities. The USA partners are WFU School of Medicine, Wright State University, Winston-Salem State University, and Central State University. The Brazilian participants are the Federal University of Minas Gerais, University of São Paulo, Federal University of Rio Grande do Sul, and São Judas Tadeus University.

Additional Graduate School activities designed to foster diversity included the *HOT TOPICS* community forums, which permitted greater visibility for our graduate programs in the campus and outside communities, and the Graduate Forum. This latter event involved inviting persons from Winston-Salem and the surrounding region who had pursued a variety of careers to come to the Reynolda Campus and to discuss their career trajectory over lunch with graduate students from both campuses. This led to an expansion of internship opportunities with Targacept, OTAM, and other agencies. Graduate Research Day also facilitated making community connections by featuring posters from a record number of graduate students, creating a system whereby at least two judges reviewed each poster, offering cash prizes to recognize high-quality presentations in each of five categories, and including additional community partners as sponsors. Departments engaged in a number of efforts to attract minority students to apply to and enroll in WFU programs, including Chemistry's letter of support for Johnson C. Smith University's MARC U-STAR proposal, Cancer Biology's assistance to NC Central University in its effort to renew its NIH BRIDGE program to provide biomedical research experiences at WFU for underrepresented minorities, and Debra Diz of Physiology/Pharmacology's submission of a NIH-PREP application designed to provide funding for minority undergraduates who need extra preparation for graduate school.

#### **iv. Graduate Council and Graduate Faculty**

Graduate Council met seven times (September 17, October 15, November 19, 2007; January 14, February 18, March 17, April 14, 2008) at alternating campus locations as proscribed in the bylaws. Dr. Christa L. Colyer (Chemistry) was elected Secretary of the Council for the Fall and Spring semesters. Due to a scheduling conflict, she was assisted by Dr. Gregory L. Kucera (Internal Medicine/Hematology-Oncology) who took minutes at the April meeting. Graduate Council considered and approved two new programs – a certificate program in medieval studies and a joint MA (Religion)/JD degree. Two name changes for graduate programs were approved as described above. Students were chosen for the Gordon A. Melson Outstanding Master's and Doctoral Student Awards (Erika Carlson, Psychology and Jennifer Martelle, Physiology/Pharmacology, respectively) and for the recipients of graduate-student Richter Awards (Nicole Hughes, Biology; Sean Luechtefeld, Communication; Yasmine Sigh, Religion; Shelby Slight, English; Christopher Weitzen, Computer Science; Christine Whittington, Liberal Studies; Benjamin Wilkinson, English).

The Curriculum Committee, chaired by Dr. L. Douglas Case (Public Health Sciences), reviewed and approved the addition of 61 courses, changes for 42 courses, and the deletion of 12 courses. The addition of new courses reflects the creation of new programs; other changes stemmed from revisions to curricula.

The Credentials Committee, chaired by Dr. Patricia A. Nixon (Health and Exercise Sciences), approved 23 persons for continuing graduate-faculty status in the Fall and 11 in the Spring. The committee also engaged in an extended discussion and revision of the procedures and nomination form for determining continuing or temporary graduate faculty status. Such discussion clarified the meaning of the terms – with temporary status recommended for service on a single person's committee or as an initial step with there being no intention of it having lesser status, and continuing status for persons who were likely to participate in multiple committees and on an ongoing basis. Also clarified was that such appointments were needed for membership on a student's thesis or doctoral committee but not for the teaching of courses in which graduate credit may be obtained. The procedures to be followed were aligned with the Bylaws, a nomination form for continuing appointment developed, and the new form and a description of the procedures to be followed for requesting continuing or temporary graduate faculty status posted at the Graduate School's website.

The Policy Committee, chaired by Dr. Leah P. McCoy (Education), addressed changes in the Graduate School's Bylaws that were required to align definitions of and criteria for membership for graduate faculty status with practices and procedures. In the criteria for membership, there was a need to accommodate the nature of graduate-level teaching at Bowman Gray, where multiple faculty participate in a given course and where professional as well as graduate students can enroll. Minor language changes were required to accommodate the two Graduate School Associate Deans (rather than one) as ex-officio members and the two Graduate Student Association co-presidents. Discussion of procedures for protecting students whose advisors leave the University led to a statement to be placed in the *Bulletin*. The essence of this statement is that a plan must be approved prior to the faculty member's departure that addresses the source(s) of funding for the student's stipend and research, and designates the primary mentor and a manager to carry out the plan. Another issue that arose concerned the amount of supplemental remuneration that a full-time graduate student could receive. Given the variety of programs, below-poverty levels of some stipends and other matters, no firm dollar amount was decided upon. A consensus view was that a student first and foremost must be able to perform his/her program responsibilities and that receipt of such opportunities must not delay completion of the degree program but that external remuneration could be accepted after approval by the student's research advisor, program director, and the Graduate School Dean in circumstances where Graduate School support was involved. Other matters were the adoption of a template for proposing new degree programs, acceptance of a requirement that all theses or dissertations be submitted electronically to a WFU server, as described at the Graduate School ETD website (<http://etd.wfu.edu/>), and setting a uniform policy regarding the number of archival copies required by the Graduate School (one) and for the payment of copying/binding charges.

We are grateful to all Graduate Council members (Allyson Bennett, K. Bridget Brosnihan, Doug Case, Christa Colyer, Martin Guthold, David John, Greg Kucera, Leah McCoy, Mark Miller, Pat Nixon, David Ornelles, and Brian Tague) for their service during the past year. Special thanks are extended to those whose terms have ended -- Allyson Bennett, Christa Colyer, David John, and Greg Kucera. Members were elected by the graduate faculty for the 2008-09 year; we welcome returning members Christa Colyer and David John from the Reynolda Campus, and Carol Milligan and Greg Shelness from the Bowman Gray Campus. We also thank the last year's Graduate School representatives to the Faculty Senate – Kathy Kron, Mike Robbins, and Suzy Torti – and especially Suzy Torti whose term has ended, and welcome Greg Kucera as the new member.

Graduate Faculty meetings were held, per our Bylaws, in November and April, at which time the recommendations from Graduate Council for curriculum changes and nomination to the Graduate Faculty were voted upon and accepted. Dr. Suzy Torti provided reports from the Faculty Senate, commenting favorably on how this group has become rejuvenated and increasingly active in cross-campus matters. The inclusion of both Associate Deans and GSA co-chairs, as well as the alignment of policies with procedures for nomination to the Graduate Faculty, required changes in the Bylaws. These were submitted to the faculty for an email vote following the April meeting and approved.

#### **v. Service on University Committees**

The Graduate School Dean, Associate Deans or staff served on various University Committees.

Committees on which Dean Moore served were as follows:

- Biomedical Sciences Committee (Bowman Gray)
- Deans' Council (Reynolda)
- Executive Council (Reynolda)
- Faculty Executive Committee (Bowman Gray)
- Graduate Council
- LCME Committee (Bowman Gray)
- Physiology and Pharmacology Chair Search Committee (Bowman Gray)
- Program reviews for Computer Science, Counseling and Education (Reynolda)
- Reappointment, Retention, Tenure and Promotion Committee (Bowman Gray)
- Research Advisory Committee (Bowman Gray)
- SBES Board of Directors (Bowman Gray)
- Space Master Planning Committee (Reynolda)
- Student Health-Insurance Advisory and Selection Committees (Reynolda)
- Translational Science Institute (TSI) Executive Council and Scientific Council
- Visual Identity Committee (Reynolda)
- Women's Forum

Committees on which Associate Dean McPhail served were as follows:

- Biomedical Sciences Committee (Bowman Gray)
- Faculty Executive Council (Bowman Gray)
- Graduate Council
- Molecular Medicine Graduate Program Executive Committee (Bowman Gray)
- Research Advisory Committee (Bowman Gray)
- Scientific Integrity and Research Ethics Committee (Bowman Gray)
- TSI Research Education Committee, Steering Committee, and Study Section
- Women's Health Center of Excellence Leadership and Mentoring Committee

Committees on which Associate Dean Cecilia Solano served were as follows:

- Academic Computer Advising Committee (Reynolda)
- Electronic Dissertation Committee
- Graduate Council

Integrated Marketing Committee  
Provost Committee on Teaching Evaluation (Reynolda)  
Richter Committee (Reynolda)  
Visual Identity Committee (Reynolda)

Committees on which Graduate School staff member Debbie Deheck served were as follows:

Academic Computer Advising Committee (Reynolda)  
Accts. Receivable, Fin. Aid., Registrar, Information Systems Group (ARFARIS)  
IS Customer Service Group

Committees on which Graduate school staff member Susan Pierce served were as follows:

Health Insurance Review Committee

#### **vi. Other Professional Activities**

*Scientific organizations.* Dean Moore gave Grand Rounds and/or invited research seminars concerning her studies of maternal/fetal health complications to several groups, including the Peru College of Medicine's annual meeting in Huaraz, Peru; the High Altitude Institute of Biology in La Paz, Bolivia; the Physiology and Obstetrics/Gynecology Departments of the University of Florida (Gainesville, FL); the American Association of Physical Anthropologists (Columbus, OH); the Society for Gynecologic Investigation (San Diego, CA); the University of Pittsburgh's McGee Women's Hospital and Department of Obstetrics/Gynecology (Pittsburgh, PA). In addition she served on the editorial boards of two journals – High Altitude Biology and Medicine and the American Journal of Human Biology – and the steering committee for the Fetal Physiology Satellite Symposium held in conjunction with the Society for Gynecologic Investigation.

Associate Dean McPhail was on the Scientific Advisory Board for and attended the Southeastern Regional Lipid Conference, as well as the Gordon Research Conference on NOX Family NADPH Oxidases. She served on the Editorial Boards of four journals – the Journal of Biological Chemistry, the Journal of Leukocyte Biology, FASEB Journal, and the Journal of Immunological Methods. She was a participant in two training activities: the WFU Career Development Program for Emerging Women Leaders and the TSI Team Science Workshop. In addition, she lectured in the graduate level course Intracellular Signaling (BICM 706) and served on the graduate committees of ten graduate students.

*Graduate School organizations.* Dean Moore attended the annual meetings of the North Carolina Council of Graduate Schools in Chapel Hill, the national Council of Graduate Schools in Seattle, WA; and the Southern Council of Graduate Schools in Austin, TX. Associate Dean Linda McPhail also attended the latter event, represented the Graduate School at the Ronald E. McNair Symposium Graduate School Fair at North Carolina A&T University in Greensboro, NC, and attended the "How to Recruit Graduate Minority Students" Professional Development Workshop in Charlotte, NC.



#### **d) Student and Postdoctoral Activities**

The Graduate Student Association (GSA) had an active year. A fall review of organizational models concluded that a co-presidency best fit its needs. Co-presidents, Sylvia Holcombe (Health Services Research Program) and Delphine Masse (Computer Science), ably led the group this year, assisted by elected representatives from each graduate program. GSA activities included a summer picnic and social events for prospective students, other social events during the academic year (Happy Hours, Tailgate parties, Halloween Party, Spring Formal) and fund-raising events (bake sale, golf tournament, rummage sale, United Way Battle of the Bands). It also engaged in many kinds of social service; namely, completion of a Habitat for Humanity project, preparation and sending of CARE packages to soldiers in Iraq, taking disadvantaged children to the Jaycees-sponsored Christmas Cheer event, helping with Stop Poverty Now and Stop Hunger projects, and a Big Brother/Big Sister Bowl-a-thon. GSA also took an active role in several Graduate School events, with its co-presidents serving as regular members of the Graduate Council and organizers of the Graduate Forum's career/professional development roundtable discussions held in January. The co-presidents also assisted with Graduate Student Orientation at both Bowman Gray and Reynolda in the Fall, and at PhD Interview Weekend in February. It is estimated that 85% of all graduate students participate in one or more of these activities. Truly this is an exceptionally effective and important group for engaging graduate students in the many programs at WFU in valued service, professional and important social activities.

The Black Graduate Student Association (BSGA) was active during the year with Latoya M. Mitchell (Microbiology & Immunology) serving as President and Stacy Reeves (Molecular Genetics) as Vice-President. Presentations on BSGA activities were made during Graduate Student Orientation and PhD Interview Weekend. The BSGA was active in the community, holding a charity event at Thanksgiving and donating turkeys and hams to the Salvation Army, as well as in the Christmas Cheer event. BSGA also helped in recruiting potential minority graduate students at the Ronald E. McNair Symposium Graduate School Fair at North Carolina A&T University in Greensboro, NC. Lastly, the BSGA organized monthly social events that allowed networking among graduate, law, medicine, and business students, as well as local young professionals.

The Brain Awareness Council (BAC) completed its second year as a recognized Graduate School association and more than six years of active participation in the community. It was led by a steering committee headed by Carson Everett and Brain Awareness Week Coordinator Scott Dobrin, both of the Neuroscience Program. Its primary activities are to create, plan, and execute presentations for K-12 students concerning brain anatomy and the effects of drugs on the brain. This was one of its most active years yet. BAC volunteers came in contact with over 2,000 students during 14 visits to elementary, middle, and high schools in Forsyth County, as well as with more than 1,500 people in the community by means of "Brain Awareness Days" at the local science museum (SciWorks) and the Children's Museum. In conjunction with the Western North Carolina Chapter of the Society for Neuroscience (WNCN) and corporate partner Targacept, the BAC co-sponsored its first ever children's brain art contest, with winners receiving scholarships for art classes and other fabulous prizes. BAC volunteers also worked with the WNCN to help plan and staff a neuroscience symposium on traumatic brain injury at Bowman Gray that was aimed at encouraging the involvement of minorities, other local

universities, and the general public in neuroscience-related activities. Funding from the Graduate School provided materials used in these and future events.

The Chinese Graduate Student Association sponsored a Moon Festival in the Fall and a Chinese New Year's Party in the Spring, as well as held social events designed to help improve English language fluency and provide other kinds of support for Chinese graduate students.

The Postdoctoral Association was led by Co-chairs Dr. Toni Garcia-Espinosa (Hypertension and Vascular Disease Center) and Cynthia Van Horn (Biochemistry) and Liliya Yamaleyeva who served as Secretary/Treasurer. Meetings were held to discuss the need for establishing a Postdoc Office, improve the Postdoc website, develop a newsletter, create a postdoc roster, establish a faculty liaison for postdocs, and implement career development programs and events. Progress was achieved with improvements in the postdoctoral website, the participation of several postdoctoral fellows as discussion group leaders in the Graduate School's course on Scientific Integrity and Professionalism, discussions with Dean Moore about implementing an Office of Postdoctoral Affairs, and the creation of the inaugural WFU Postdoc newsletter. Members of the group also provided physiology lectures at Winston-Salem State University, participated in the Women's Health Center of Excellence workshop on "How to Run an Effective Team," and in the National Postdoctoral Association Annual Meeting held in Boston, at which postdoc Ann Peiffer won an award for her poster presentation.

### **3. PROJECTIONS FOR 2008-09**

#### **a) Planned Activities**

For **2008-09**, we propose to advance the WFU Strategic Plan through an even greater range of activities that will, once completed, have fulfilled virtually all of the goals articulated in the Graduate School document *Mission, Values, and Vision/Priorities, Goals, Strategies* and the WFU Strategic Plan.

**Table B. Planned Graduate School Activities in Relation to the WFU Strategic Plan**

<b>Graduate School Goals</b>	<b>2008-09 Activities</b>
1. Build community ( <i>WFU Strategic Plan's goals #2, 4</i> )	a) Regular all-WFU graduate program director meetings b) New Assistant Dean for and Office of Postdoctoral Affairs c) Implement staged plans for professional development for predoctoral students and postdoctoral fellows d) Create a Student Lounge in ZSR Library for all graduate students e) Remodel Graduate School offices on both campuses f) Expand website coverage of news & events, grant opportunities; plan a newsletter, alumni events g) Improve e-connectivity with implementation of ADFS or similar secure system accessible to students & faculty at both campuses
2. Increase student, program support & quality ( <i>WFU Strategic Plan's goal #3</i> )	a) Expand health-insurance benefits (Reynolda) b) Conduct Teaching Assistant (TA) audit, increase TA opportunities & support (Reynolda) c) Cooperate with other University programs to enable training the next generation of teacher-scholars d) Implement a staged plan for increasing diversity e) Increase fellowship, training-grant applications f) Create a fund-raising advisory group g) Create and implement a tuition policy reflective of both campuses
3. Stimulate faculty productivity ( <i>WFU Strategic Plan's goal #1</i> )	a) Improve online application process at Reynolda & Bowman Gray b) Create <i>Handbook</i> for graduate program directors h) Improve faculty-student mentoring c) Improve transparency for linking expenditures for and benefits of graduate programs
4. Expand graduate programs & faculty participation ( <i>WFU Strategic Plan's goals #2, 5</i> )	a) Continue to broaden program range and faculty participation b) Pursue international opportunities c) Create policy for certificate programs, program review

In relation to our 1<sup>st</sup> goal of building community, we will:

- Continue all WFU graduate-program director meetings and hold at least two meetings each semester at alternating locations for discussing topics of common concern. We will also seek opportunities to include brief updates from program directors to a range of campus groups.
- The new Associate Dean for Professional Development and the new Assistant Dean for Postdoctoral Affairs have been appointed (effective July 1, 2008) and are currently creating coordinated, staged plans for a full suite of professional development opportunities at WFU for graduate students and postdoctoral fellows. Such activities will likely include workshops to enable the preparation of grant applications in support of programmatic activities; graduate student or postdoctoral fellowships, Richter and other types of awards; teaching practica; expanded internships; international opportunities; and negotiation and other job related skills.
- An important development is the creation of the Johnson Graduate Student Lounge in remodeled space in the Z Smith Reynolds (ZSR) Library, due to open in the Fall 2008 and available for exclusive use by graduate students from both campuses.
- Office remodeling is taking place at both campuses, which will improve the efficiency with which we provide support to our graduate programs.

- We continue to make improvements in our website by increasing coverage of news and events, announcing grant opportunities for students and faculty, and working toward the creation of a newsletter, as well as other alumni events with which we can maintain contact with our students and friends.
- Finally, a key means not only for building community but also accomplishing other Graduate School goals is improving e-connectivity between our campuses, schools, and colleges with a system by which users behind different firewalls can access or post common course or research-related materials (e.g., create an Active Directory Federation Services system for both Reynolda and Bowman Gray users).

In relation to the concerns raised in the 2006-07 strategic planning, our planned activities address the requests to:

Hire an associate dean to work on student support (WFU Goal #3)  
 Appoint a director for an office of postdoctoral affairs (WFU Goal #3)  
 Create relationships with other universities and local industry (WFU Goal #3, 5)  
 Promote international experiences (WFU Goal #3)

For our 2<sup>nd</sup> goal of increasing student support and quality, we will:

- Offer health-insurance benefits to Reynolda doctoral students for the first time. We are grateful to the Reynolda campus administration for affording resources to enable equivalent coverage for doctoral students at both campuses. We have participated in discussions concerning the kind of health insurance available to master's students at Reynolda and succeeded in offering a plan that has considerably better coverage for an approximately equal price as last year's. Continued efforts will be directed toward improving health-insurance coverage for all students.
- We will review the ways in which teaching assistantships (TAs) are carried out at the Reynolda campus, in order to come up with more uniform criteria regarding the kinds of activities, amounts of remuneration, and other related practices. It is hoped that such a review will permit us to identify more areas where TAs can be employed and to improve the level of payment.
- Greater access to other University offices, such as the Teaching and Learning Center, the Learning Assistance Center, and Career Services will greatly benefit our efforts to expand support and training opportunities for our graduate students to become future teacher-scholars.
- The Graduate School Associate Dean for Recruiting has formulated a staged plan for increasing diversity that involves increasing the number of minority applicants and matriculants by establishing direct links with HBCUs and other minority-serving institutions, select attendance at career fairs coupled with campus visits, having competitive recruitment packages, maintaining individualized contact with minority applicants, and developing mentoring programs. This plan includes addressing how the summer research opportunities program, which in 2008 involved more students and a higher proportion of minorities than ever before, can be used more effectively to advance our diversity goals.
- We plan to create a library of successful graduate fellowship and training grant applications to help persons preparing such proposals and to continue providing student

data to PIs so as to increase the number of such grant submissions and their likelihood of being funded.

- Create a fund-raising advisory group that can effectively span the interests of faculty and students at both campuses and facilitate the operations of both development offices with hopes that this can help support student fellowships, pilot research projects, and student travel to professional meetings.
- A tuition policy was created five-years ago at Reynolda and anticipated, but not instituted, at Bowman Gray. There is a need to engage the faculty for planning and implementing a policy that is reflective of the needs and the opportunities present in both campus environments.

This group of activities addresses the following concerns raised during the 2006-07 strategic planning:

Provide health insurance for Reynolda doctoral students (WFU Goal #3)  
Seek involvement for graduate students in teaching (WFU Goal #1)  
Create mentoring programs for graduate students (WFU Goal #1)  
Increase diversity by creating HBCU, other relationships (WFU Goal #3, 4)  
Devise a centralized recruiting process (WFU Goal #3)  
Increase student grant funding – especially training grants (WFU Goals #2, 3)  
Increase budget for student travel to conferences (WFU Goal #3)

For our 3<sup>rd</sup> goal of stimulating faculty productivity, we seek to:

- Improve the application process by expanding the online capability at Bowman Gray to include credit-card payment and to introduce a true online process for the first time at Reynolda. Remarkably, for the last nine years, the Reynolda campus has used a pseudo-online process in which the information provided by the student required manual entry into two separate databases! While a true-online system benefits many aspects of our operations, we think an especially important feature is that it will increase the efficiency for the use of faculty and staff time; expand our ability to track applicants, get timely data to program directors, and thereby matriculate the best applicants; and thereby expand the range of other functions that the Graduate School can serve. Hence, we will begin to use the Bowman Gray system for all students, effective August 2008. We are grateful to the Bowman Gray administration and staff, especially in the Peoplesoft office, for assisting in this process.
- An additional important advance is the development of a *Handbook for Graduate Program Directors* that was drafted by former Associate and Interim Dean Cecilia Solano and will be distributed to program directors shortly. It is expected that this will help them monitor their programs more effectively and efficiently.
- We will seek to improve faculty-student mentoring via encouraging faculty to participate in University teaching- and mentoring-related programs, and considering the adoption of a compact between graduate students and their advisors such as that recently suggested by several professional associations.
- We also seek to continue to improve the transparency for linking expenditures for student stipends and other kinds of programmatic support to the benefits realized from the services being performed, revenues generated, and other measures of program success.

These activities address the following recommendations from the 2006-07 strategic planning:

- Devise an online application process for Reynolda (WFU Goal #3)
- Increase administrative support from the Graduate School to programs via creating a *Handbook* (WFU Goal #2)
- Create mentoring programs for graduate faculty (WFU Goal #1)
- Provide logic for allocating graduate school general support to programs (WFU Goal #2)

In relation to the 4<sup>th</sup> goal of expanding the number of graduate programs and amount of faculty participation, we will:

- Continue our efforts to broaden the range of programs and of faculty participation by encouraging the creation of more coherent graduate programs and the planning for new initiatives, including international opportunities. Such efforts will be of benefit by increasing the comprehensibility of our programs to interested students and faculty at WFU or other institutions from which we are trying to recruit.
- Development of policies and procedures is underway to advance all the Graduate School's goals.

Such efforts bear on additional recommendations made in the 2006-07 strategic planning process; namely,

- Increase administrative support from the Graduate School to programs via creating certificate programs (WFU Goal #2)
- Increase presence of international students (WFU Goal #3)

#### **b) Assistance Received/Needed from other University Offices and Services**

Assistance was received last year from many sources.

- Especially appreciated was the support from the senior administration at both campuses for the approval of a new Associate Dean, an Assistant Dean for Postdoctoral Affairs and associated staff, and for other Graduate School initiatives.
- We thank the College Dean for her continued support of graduate faculty and students, and the School of Medicine Dean for his help in raising graduate student stipends and permitting access to the Bowman Gray online system for processing applications for Reynolda programs.
- Providing partial payment toward health-insurance premiums for Reynolda doctoral students has been a longstanding request; we appreciate that this issue has now been resolved.
- The decision to permit carryover of funds at the Reynolda Campus from one fiscal year to the next will enable us to achieve greater budgetary efficiency.
- Construction activities have benefited the Graduate School and its students; namely, remodeling the Graduate School and MALS offices in Reynolda Hall, providing space in the Z Smith Reynolds Library for creating the Johnson Graduate Student Lounge, and remodeling the Graduate School offices at the Bowman Gray Campus.



- Much appreciated was the support from Academic Computing at Bowman Gray and Information Services at Reynolda for moving the Graduate School's website to the WFU server and for helping us revise our web pages.

Last but far from least, profound appreciation is extended to the Graduate School staff, graduate faculty, graduate students, University administration and staff, members of the Boards of Visitors and Trustees for enabling the new Dean to learn the "ways of Wake" and help effect the above-mentioned changes.

For the coming year, several kinds of infrastructure-related support are needed. Of particular importance will be:

- Support from Information Services at Reynolda and Academic Computing at Bowman Gray is sought in order to improve the e-connectivity between our campuses. As mentioned above, this is needed to permit faculty and students behind different firewalls to access common course and research-related materials in a secure fashion. Support from these (and other) offices is also central to our efforts to upgrade our online application and other website capabilities.
- Greater access to University services is required for publicizing our events to the campus and broader communities, and for sharing stories of student and faculty success.
- Expanding predoctoral and postdoctoral professional development activities, as well as those intended to improve student health insurance and other kinds of student support, requires that graduate students receive access to university-based services; in the past, such access has been difficult.
- Finally, to achieve the fund-raising objectives mentioned above, the Graduate School requires representation in each campus's development office and a fund-raising advisory group that spans the interests (and programs) of the Reynolda and Bowman Gray campuses.

We are encouraged by the initial support received for such ideas and hopeful that additional means to implement these objectives will be forthcoming.

## **4. TABULAR MATERIAL**

### **a) Comments Concerning Tables**

#### Applications

The *number* of applications this year rose to 1328, slightly higher than last year's 1299, but with the same 29% rate of acceptance (Table 2). Hence interest in WFU graduate programs remains strong and admission highly selective. The increased number of applications occurred principally in Cancer Biology, Chemistry, Health and Exercise Science, Molecular Medicine, and Religion. The proportion of students accepted who matriculated in WFU programs was somewhat higher at the Reynolda than the Bowman Gray campus; in each case, over half the students accepted chose to come to WFU.

*Diversity.* Females continued to outnumber males in most programs, as has been the case for several years. The proportion of Black, Hispanic, Asian, and American Indian students among total applicants averaged 12 and 13% at Bowman Gray and Reynolda respectively (Table 3A). The percent of persons from these groups who were offered admission was slightly greater (16%) at Bowman Gray but lower at Reynolda (4%) (Table 3B). The corresponding figure for matriculants declined to 12% at Bowman Gray and rose slightly to 6% at Reynolda (Table 3C). Small sample sizes caution against too close an interpretation of these figures but do suggest that renewed efforts are required, especially at Reynolda, for engaging a larger portion of the applicant pool to come to WFU in order to meet institutional targets for diversity.

*Region of student origin.* International students continued to be attracted to WFU, comprising 28% of all applicants (Table 3A). The proportion of international students who were accepted or matriculated was smaller (9-12%), reflecting the highly competitive nature of WFU's programs and language, as well as other difficulties faced by foreign students (Tables 3B and 3C). Approximately half (46%) the USA applicants came from the southeast region, with the largest number listing North Carolina as their state of permanent residence, followed by Virginia, Pennsylvania, and Florida and then a broad array of other states (California, Georgia, Maryland, New Jersey, New York, Ohio, South Carolina, Tennessee, Texas) (Table 4A). Matriculants were even more likely to be from North Carolina, comprising 74% of all entering students (Table 4B). A similar preponderance of North Carolina students among applicants and matriculants was seen last year.

*Test scores.* GRE verbal and quantitative scores averaged in the low 500s and low-to-mid 600s respectively among applicants (Table 5A), rising slightly among accepted students (Table 5B) and matriculants (Table 5C). Grade point averages (GPA) followed a similar pattern, averaging 3.4, 3.6 and 3.5-3.6 for the three groups respectively. These are all excellent test scores and GPAs in keeping with the highly competitive nature of WFU's programs. There were no unexpected differences between Reynolda and Bowman Gray campuses or among programs in test scores or GPA.

## Enrollment

The *number* of students enrolled in WFU degree programs was slightly greater than last year (792 vs. 774). This modest growth occurred evenly at the master's and doctoral levels, taking place chiefly in Accountancy, Biomedical Engineering, Mathematics, and Religion (Table 6). No program underwent any sizeable decrease in enrollment.

The *profiles of degree-seeking students* indicated that there was a majority of females on both campuses (57% at Bowman Gray and 52% at Reynolda) but somewhat more international students at Bowman Gray (21%) than Reynolda (14%), as well as more Black, Hispanic, Asian and American Indian students (16.5% vs. 6.5% respectively) (Table 7). This reinforces the need to increase the numbers of under-represented minority students in Reynolda programs. Among international students, the largest proportions came from China (30%) and India (26%) with the next largest segment being from South America (17%). Africa, Europe and other sectors of Asia each accounted for 6-10% of WFU students (Table 8). These international students participated in a broad array of WFU programs.

### Degrees awarded and placement

The *number* of degree recipients increased 12% from 2006-07, due to greater numbers of PhD degrees (from 36 to 66) and a modest rise in master's degree recipients (from 190 to 196) (Table 9). The rise in PhD degrees was entirely due to an increase from 22 to 64 graduates in Bowman Gray programs in 2006-07 vs. 2007-08; the number of Reynolda PhD graduates dropped from 14 to 2 across this same time period.

*The time to degree completion* for PhD programs remained very favorable (5.4 yrs), essentially the same as last year (5.3 yrs) and well below national average of 7-8 yrs in the biomedical and life sciences (Table 10). There were no apparent differences in time to degree completion between Bowman Gray and Reynolda.

*Placement* varied by program with, for example, Accountancy students going overwhelmingly into financial service positions (and a third to Price Waterhouse Coopers) (Table 11). For the other programs, on average 29% entered postdoctoral positions, 28% remained in academia (with substantial numbers of master's students seeking doctoral degrees), and 43% took jobs in a business-related field, such as a biotech company or a professional position (e.g., teacher, counselor, writer).

### Financial aid

*Amounts* of financial aid varied by type of support and by program. Tuition scholarships were paid at the level of tuition approved by the Board of Trustees, with an additional amount of \$300 provided for summer tuition at Bowman Gray (Table 12). All students at Reynolda but those in the Master's of Arts in Liberal Studies (MALS) and Visiting International Fellows (VIF) programs were eligible for tuition scholarships, with tuition rates for these two programs being somewhat lower as a result. Stipends were paid to teaching assistants that averaged \$6000-\$8000 for most master's programs and were \$15,850 - \$20,000 for doctoral programs, being paid as assistantships. Fellowships were generally for a lower amount (\$4000).

Stipends at Bowman Gray have been paid at the NIH-mandated cap for training grants. i.e., \$20,772 during the past five years. Intensive discussions occurred over the past year concerning the amount and usage of stipends for doctoral students at Bowman Gray. WFU stipends were one of the very lowest among 83 biomedical programs nationally, being greater only than that of Michigan State University and tied with Pennsylvania State University. The overwhelming majority of biomedical programs have stipends ranging from \$24,000-\$28,000. Moreover, the contribution from the School of Medicine toward student stipends has declined in recent years, while the monies from faculty grants has increased such that, in 2007-08, WFU faculty research and training grants paid 71% of the total awarded for student stipends. Yet effective use of these funds was limited by not being able to compete for nationally-competitive students. Given that graduate students are vital contributors to the faculty's, the institution's, and their own emerging research programs, we argued that the stipend level should be increased to \$25,000 over as short a time frame as possible. We are pleased to report that approval was granted for doing so, thus permitting us to raise Bowman Gray stipends to \$22,181 in 2008-09, \$23,590 in 2009-10, and \$25,000 in 2010-11.

One means for increasing the stipend amounts was to ensure that the Graduate School's contribution was restricted to first year students or circumstances in which unforeseeable emergencies required supporting students in later years of their programs until other sources of support could be found. While these were the principles by which such financial aid was established, review of program expenditures revealed considerable heterogeneity in the way in which Graduate School stipends were being used. Given that students spend, on average, a little more than five years in their programs, if support from the Graduate School was limited to first year students, the amount from the Graduate School should average ~20% for all students. Four of the ten doctoral programs were at or close to this value, but this figure was as high as 47% in other programs. Hence, program directors were informed that the number of students that they could admit for 2008-09 would be reduced by the number of students in their second year or beyond requiring support from the Graduate School. As noted above, this led to an increase in grant submissions and will, we anticipate, bring the proportion of students in all programs much closer to 20% in the coming year.

Concern arose for Reynolda programs over the amount of stipends being received by their students. This led to a consideration of the role played by teaching assistants in the various programs, which in turn demonstrated that there was quite a broad range of tasks being performed and, possibly, levels of payments being received. It was decided therefore to conduct a "TA audit" in order to document the range of services being performed and to determine the appropriate relationship between such services and the level of payment. Each unit with teaching assistants provided such documentation in May 2008. This material will now be reviewed in an effort to establish appropriate policies at Reynolda for according stipend level with the services being performed and with the source(s) of revenue from which the student is being paid.

Another concern that surfaced at Reynolda was over the longstanding difference between doctoral programs at the two campuses over the provisioning of health insurance benefits. Funds to equalize health insurance benefits across the two campuses were therefore sought as part of the Graduate School's strategic-planning request to the Reynolda administration. We are pleased that this request was granted such that now all doctoral students will receive the same institutional support (\$1800/yr) toward the one-year health-insurance premium of \$2484, with the balance (\$684) being deducted from the student's monthly stipend.

*Sources of financial aid* derive from institutional sources (stipends, fellowships, Dean's Assistantships) which are distributed selectively by the Graduate School to students in Reynolda and Bowman Gray campus programs. Additional internal sources are tuition scholarships and employee scholarship concessions, the latter being tuition payments provided for a limited number of semester hours each year for WFU employees.

External sources of financial aid differ by campus. At Reynolda, external sources in 2007-08 were tuition payments for students supported on faculty grants, student stipends from faculty grants, and self-pay tuition. There were modest amounts of philanthropic support as well, virtually all of which was directed to minority students. In 2003-04, a policy was adopted at Reynolda which required that faculty paying students from grants must include a request for tuition of \$5000 or 5% of the total amount of the award, whichever was less. The intention was that these monies would be used to support graduate-student stipends and other graduate-related activities. While these monies began to be collected in 2005, there is presently no clear policy

directing their use. Therefore, information was collected from the Office of Sponsored Programs at Reynolda in Spring 2008 to document the amount of money that had been brought into the institution under this tuition policy. The Graduate School will review these data and discuss them with the relevant groups so as to develop a transparent policy for the use of such grant-derived tuition revenue. Tuition paid by the students themselves has also constituted an important source of external revenue for Reynolda programs. Most of these monies have come from the Accountancy program which, with the hiring of Dean Reinemund as the new head of the Calloway and Babcock Schools, will move out of the Graduate School after 2008-2009. While there is tuition paid by students in other programs, there is an urgent need for programs to identify their options for increasing tuition-derived revenue.

At Bowman Gray, stipends are paid from several kinds of external sources; faculty research grants, training grants, and departmental funds derived from clinical or other revenues. Tuition has been obtained through training grants which is effectively capped at \$16,000 for students in single degree programs or up to \$21,000 for students in dual-degree programs. The Graduate School actively helps programs prepare applications for training grants and will seek to encourage submission of additional such proposals. As the policy concerning tuition obtained from grants is developed for Reynolda programs, its application to Bowman Gray will also be considered so that a consistent tuition policy can be created for the full range of WFU graduate programs.

A final source of financial aid to be considered here is philanthropy. The Hearst Foundation support for minority students at Reynolda has been an important source of financial aid for its programs. No such foundation award exists for graduate education at Bowman Gray, although there are some small named awards for students in honor of a given benefactor. Alumni funds at both campuses constitute an important source of revenue for students seeking support to attend and make presentations at national professional meetings. Students apply for these funds and the Graduate School dispenses them in \$300 amounts. We were able to document this year that students were able to leverage the funds provided by the Graduate School such that for every \$1 we supplied, the student was able to generate an additional \$3 from other sources. Despite such careful stewardship, our funds are typically exhausted by February of each fiscal year. Thus there is a clear need to increase funds through alumni funds and other sources.

Given the importance of fund-raising for University initiatives, we think that the Graduate School needs to be more directly involved in fundraising. Toward that end, we propose to develop a fund-raising advisory group in 2008-09 whose explicit purpose is:

- To promote graduate education at Wake Forest University that enhances the institution's scholarly excellence, productivity, and recognition and to advise the Dean of the Graduate School in the attainment of such objectives; and
- To attract new resources through gifts and bequests which provide support and fellowship opportunities to deserving students from all disciplines.

Through a variety of means, we seek to work with the Development Offices at both campuses to enhance the generation of revenues from alumni funds, annual fund campaigns, major gifts, corporations and foundations for supporting career development activities for graduate students; seed money for new initiatives; fellowships for minority and other deserving students; and student travel to national/international meetings.

## **b) Tables**

See the next section of this report.



**TABLE 1. GRADUATE DEGREE PROGRAMS  
AT WAKE FOREST UNIVERSITY, 2007 - 2008**

<b>Program</b>	<b>Degree(s)</b>	<b>Combined Programs</b>
Accountancy ( <b>ACC</b> )	MSA	With the Wayne Calloway School of Business and Accountancy
Biochemistry and Molecular Biology ( <b>BAMB</b> )	PhD	
Biology ( <b>BIO</b> )	PhD, MS	
Biomedical Engineering ( <b>BMES</b> )	PhD, MS	
Cancer Biology ( <b>CABI</b> )	PhD	
Chemistry ( <b>CHM</b> )	PhD, MS	
Communication ( <b>COM</b> )	MA	
Comparative Medicine ( <b>COMD</b> )	MS	
Computer Science ( <b>CSC</b> )	MS	
Counseling ( <b>CNS</b> )	MA	
Education - Teaching ( <b>EDU</b> )	MAEd	
Visiting International Faculty ( <b>VIF</b> )*		
English ( <b>ENG</b> )	MA	
Health and Exercise Science ( <b>HES</b> )	MS	
Health Sciences Research ( <b>HSRP</b> )	MS	
Liberal Studies ( <b>MLS</b> )	MALS	
Mathematics ( <b>MTH</b> )	MA	
<b>MD/PhD</b>		With the WFU School of Medicine
Microbiology and Immunology ( <b>MICR</b> )	PhD	
Molecular and Cellular Pathobiology ( <b>MCPA</b> )	PhD	
Molecular Genetics and Genomics ( <b>MOGN</b> )	PhD	
Molecular Medicine ( <b>MOME</b> )	PhD, MS	
Neurobiology and Anatomy ( <b>NBAT</b> )	PhD	
Neuroscience ( <b>NUSC</b> )	PhD	
<b>PhD/MBA</b>		With the WFU Babcock Graduate School of Management
Physics ( <b>PHY</b> )	PhD, MS	
Physiology and Pharmacology ( <b>PSPR</b> )	PhD	
Psychology ( <b>PSY</b> )	MA	
Religion ( <b>REL</b> )	MA	

**\*Summer Only Program**

**TABLE 2. APPLICATION STATISTICS BY PROGRAM, FALL 2007: NUMBERS  
RECEIVED, ACCEPTED, AND MATRICULATED**

	<b>Applications</b>	<b>Accepted</b>	<b>Matriculated</b>
<b>ACC</b>	94	70 (74%)	64 (91%)
<b>BAMB*</b>	63	10 (15.8%)	5 (50%)
<b>BIO*</b>	54	12 (22%)	9 (75%)
<b>BMES*</b>	114	27 (23.6%)	15 (55.5%)
<b>CABI*</b>	84	13 (15.4%)	4 (30.7%)
<b>CHM*</b>	82	22 (27%)	9 (41%)
<b>CNS</b>	147	16 (1%)	14 (88%)
<b>COM</b>	28	14 (50%)	7 (50%)
<b>COMD</b>	1	1 (100%)	1 (100%)
<b>CSC</b>	28	6 (21%)	5 (83%)
<b>EDU</b>	51	29 (57%)	23 (79%)
<b>ENG</b>	37	17 (46%)	9 (53%)
<b>HES</b>	33	7 (21%)	7 (100%)
<b>HSRP</b>	16	9 (56.2%)	9 (56.2%)
<b>MCPA*</b>	19	7 (36.8%)	4 (57.1%)
<b>MICR*</b>	56	6 (10.7%)	4 (66.6%)
<b>MLS</b>	15	13 (87%)	13 (100%)
<b>MOGN*</b>	37	9 (24.3%)	4 (44.4%)
<b>MOME*</b>	34	12 (35.2%)	7 (58.3%)
<b>MTH</b>	31	10 (32%)	7 (70%)
<b>NBAT*</b>	14	6 (42.8%)	4 (66.6%)
<b>NUSC*</b>	53	17 (32%)	7 (41.1%)
<b>PHY*</b>	44	8 (18%)	2 (25%)
<b>PSPR*</b>	27	6 (22.2%)	3 (50%)
<b>PSY</b>	123	17 (14%)	9 (53%)
<b>REL</b>	20	11 (55%)	8 (73%)
<b>VIF</b>	23	11 (48%)	11 (100%)
<b>Bowman Gray</b>	518	123 (23.7%)	67 (54.4%)
<b>Reynolda</b>	810	263 (32%)	197 (75%)
<b>TOTALS</b>	<b>1328</b>	<b>386 (29%)</b>	<b>264 (68.3%)</b>
<b>MD/PhD</b>	53	8 (15%)	2 (25%)

\*Includes MD/PhD Applicants

**TABLE 3A. PROFILES BY PROGRAM WITH RESPECT TO GENDER, RACE, AND ETHNICITY  
FOR APPLICANTS, FALL 2007**

	Male	Female	Unk	TOTAL	White	Black	Hispanic	Asian	Am Ind	Intern	Unk
ACC	48	46	0	94	69	7	1	0	0	15	2
BAMB*	31	29	3	63	14	2	1	2	0	36	8
BIO*	24	30	0	54	35	1	1	1	0	16	0
BMES*	62	51	1	114	47	5	1	7	1	41	12
CABI*	30	53	1	84	27	6	2	3	0	39	7
CHM*	40	42	0	82	36	4	0	0	0	40	2
CNS	21	126	0	147	120	14	2	4	0	4	3
COM	14	14	0	28	19	3	1	1	0	4	0
COMD	0	1	0	1	1	0	0	0	0	0	0
CSC	18	10	0	28	7	1	0	0	0	20	0
EDU	18	33	0	51	42	5	1	1	0	1	1
ENG	9	28	0	37	34	0	1	1	0	0	1
HES	14	19	0	33	27	0	0	1	0	4	1
HSRP	9	7	0	16	9	1	1	2	0	1	2
MCPA*	9	10	0	19	7	1	1	1	0	9	0
MICR*	20	35	1	56	22	1	3	2	1	21	6
MLS	7	8	0	15	11	3	0	0	0	0	1
MOGN*	11	26	0	37	7	1	2	1	0	21	5
MOME*	14	20	0	34	11	3	0	0	0	13	7
MTH	17	14	0	31	23	0	0	0	0	6	2
NBAT*	7	7	0	14	9	0	0	1	0	3	1
NUSC*	21	32	0	53	28	3	0	2	1	16	3
PHY*	33	11	0	42	15	0	0	2	0	25	2
PSPR*	15	12	0	27	15	3	0	0	0	8	1
PSY	32	91	0	123	91	6	5	3	0	11	7
REL	8	12	0	20	15	0	2	0	0	2	1
VIF	4	19	0	23	0	0	0	0	0	23	0
BG	229	283	6	518	197	26	11	21	3	208	52
REY	307	503	0	810	544	44	14	14	0	171	23
TOTALS	536	786	6	1328	741	70	25	35	3	379	75
MD/PhD	30	23	0	53	27	6	2	8	2	4	4

\*Includes MD/PhD Applicants

Intern: Non-US address, ethnicity not checked

Applicants: Number of completed applications received

**TABLE 3B. PROFILE BY PROGRAM WITH RESPECT TO GENDER, RACE, AND ETHNICITY  
FOR ACCEPTED STUDENTS, FALL 2007**

	Male	Female	Unk	TOTAL	White	Black	Hispanic	Asian	Am Ind	Intern	Unk
ACC	42	28	0	70	65	3	0	0	0	2	0
BAMB*	4	6	0	10	8	0	0	1	0	0	1
BIO	7	5	0	12	11	0	0	0	0	1	0
BMES	10	17	0	27	16	2	1	4	0	2	2
CABI*	5	8	0	13	7	1	1	1	0	2	1
CHM	9	13	0	22	15	2	0	0	0	5	0
CNS	3	13	0	16	14	1	0	1	0	0	0
COM	6	8	0	14	10	0	1	0	0	3	0
COMD	0	1	0	1	1	0	0	0	0	0	0
CSC	4	2	0	6	3	0	0	0	0	3	0
EDU	11	18	0	29	26	2	0	0	0	0	1
ENG	4	13	0	17	16	0	0	0	0	0	1
HES	3	4	0	7	7	0	0	0	0	0	0
HSRP	6	3	0	9	6	0	0	1	0	0	2
MCPA*	3	4	0	7	2	1	0	1	0	3	0
MICR	2	4	0	6	3	1	0	0	0	2	0
MLS	6	7	0	13	11	2	0	0	0	0	0
MOGN*	3	6	0	9	3	1	1	0	0	1	3
MOME*	4	8	0	12	7	2	0	0	0	0	3
MTH	6	4	0	10	8	0	0	0	0	0	2
NBAT	2	4	0	6	4	0	0	0	0	1	1
NUSC	5	12	0	17	15	1	0	0	0	0	1
PHY	5	3	0	8	6	0	0	0	0	2	0
PSPR*	3	3	0	6	6	0	0	0	0	0	0
PSY	8	9	0	17	12	0	1	0	0	1	3
REL	4	7	0	11	8	0	0	0	0	2	1
VIF	2	9	0	11	0	0	0	0	0	11	0
BG	47	76	0	123	78	9	3	8	0	11	14
REY	122	141	0	263	212	8	3	1	0	30	8
TOTALS	169	217	0	386	290	17	6	9	0	41	22
MD/PhD	4	4	0	8	4	2	0	2	0	0	0

\*Includes MD/PhD Accepted

Intern: Non-US address, ethnicity not checked

Accepted: Students to whom offers of admission were made

**TABLE 3C. PROFILES BY PROGRAM WITH RESPECT TO GENDER, RACE, AND  
ETHNICITY FOR MATRICULANTS, FALL 2007**

	Male	Female	Unk	TOTAL	White	Black	Hispanic	Asian	Am Ind	Intern	Unk
ACC	39	25	0	64	59	3	0	0	0	2	0
BAMB*	1	4	0	5	4	0	0	1	0	0	0
BIO	4	5	0	9	9	0	0	0	0	0	0
BMES	5	10	0	15	10	1	0	1	0	2	1
CABI	2	2	0	4	1	1	1	0	0	1	0
CHM	3	6	0	9	6	1	0	0	0	2	0
CNS	3	11	0	14	12	1	0	1	0	0	0
COM	2	5	0	7	5	0	0	0	0	2	0
COMD	0	1	0	1	1	0	0	0	0	0	0
CSC	4	1	0	5	2	0	0	0	0	3	0
EDU	8	15	0	23	20	3	0	0	0	0	0
ENG	2	7	0	9	9	0	0	0	0	0	0
HES	3	4	0	7	7	0	0	0	0	0	0
HSRP	6	3	0	9	6	0	0	1	0	0	2
MCPA	2	2	0	4	2	0	0	0	0	2	0
MICR	1	3	0	4	2	1	0	0	0	1	0
MLS	6	7	0	13	11	2	0	0	0	0	0
MOGN	1	3	0	4	1	0	0	0	0	1	2
MOME	2	5	0	7	4	1	0	0	0	0	2
MTH	6	1	0	7	7	0	0	0	0	0	0
NBAT*	1	3	0	4	2	0	0	0	0	1	1
NUSC	4	3	0	7	7	0	0	0	0	0	0
PHY	2	0	0	2	2	0	0	0	0	0	0
PSPR	2	1	0	3	3	0	0	0	0	0	0
PSY	4	5	0	9	9	0	0	0	0	0	0
REL	3	5	0	8	7	0	0	0	0	1	0
VIF	2	9	0	11	0	0	0	0	0	11	0
BG	27	40	0	67	43	4	1	3	0	8	8
REY	91	106	0	197	165	10	0	1	0	21	0
TOTALS	118	146	0	264	208	14	1	4	0	29	8
MD/PhD	1	1	0	2	1	0	0	1	0	0	0

\*Includes MD/PhD Matriculants

Intern: Non-US address, ethnicity not checked

Matriculants: Students who enrolled

TABLE 4A. PROFILES BY PROGRAM WITH RESPECT TO STATE OF PERMANENT RESIDENCE  
FOR APPLICANTS, FALL 2007

	AL	CA	FL	GA	MD	NC	NJ	NY	OH	PA	SC	TN	TX	VA	Other States	International	TOTALS
ACC																	
BAMB*	0	1	4	1	0	2	1	1	1	1	0	1	0	3	7	40	63
BIO																	
BMES*	0	4	1	0	2	15	2	1	0	7	1	5	0	18	16	42	114
CABI*	0	2	4	2	2	9	0	1	1	3	0	1	3	3	13	40	84
CHM																	
CNS																	
COM																	
COMD	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
CSC																	
EDU																	
ENG																	
HES																	
HSRP	0	0	0	1	0	9	0	0	0	0	1	0	0	0	4	1	16
MCPA*	0	1	1	0	0	4	0	1	0	0	0	1	0	0	2	9	19
MICR*	0	0	2	0	4	9	1	1	4	4	1	0	2	2	5	21	56
MLS																	
MOGN*	0	0	1	0	0	4	2	2	1	1	1	0	0	0	3	22	37
MOME*	0	0	1	1	1	7	0	0	1	5	1	0	0	2	2	13	34
MTH																	
NBAT*	0	0	0	1	0	5	0	1	0	2	1	0	0	1	0	3	14
NUSC*	1	1	3	1	2	6	2	2	2	3	1	0	2	4	7	16	53
PHY																	
PSPR*	0	1	0	0	0	6	1	1	0	2	1	1	0	2	4	8	27
PSY																	
REL																	
VIF																	
TOTALS	1	10	17	7	11	77	9	11	10	28	8	9	7	35	63	215	518
MD/PhD	0	1	5	2	1	3	1	3	4	2	1	2	0	4	19	5	53

\*Includes MD/PhD Applicants

Information not available for Reynolda programs

TABLE 4B. PROFILES BY PROGRAM WITH RESPECT TO STATE OF PERMANENT RESIDENCE  
FOR MATRICULANTS, FALL 2007

	AL	CA	FL	GA	MD	NC	NJ	NY	OH	PA	SC	TN	TX	VA	Other States	International	TOTALS
ACC																	
BAMB*	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	1	5
BIO																	
BMES	0	0	0	0	2	4	0	1	0	0	0	1	0	4	1	2	15
CABI	0	0	1	0	1	0	0	0	0	0	0	0	1	0	0	1	4
CHM																	
CNS																	
COM																	
COMD	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
CSC																	
EDU																	
ENG																	
HES																	
HSRP	0	0	0	0	0	6	0	0	0	0	0	0	0	0	3	0	9
MCPA	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	2	4
MICR	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0	1	4
MLS																	
MOGN	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1	1	4
MOME	0	0	0	0	0	4	0	0	0	1	0	0	0	1	0	1	7
MTH																	
NBAT*	0	0	0	0	0	2	0	0	0	1	0	0	0	0	0	1	4
NUSC	0	0	0	0	1	3	1	0	0	2	0	0	0	0	0	0	7
PHY																	
PSPR	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	3
PSY																	
REL																	
VIF																	
TOTALS	0	0	1	0	4	23	2	3	1	5	1	2	1	7	7	10	67
MD/PhD	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	2

\*Includes MD/PhD Accepted

Information not available for Reynolda programs

**TABLE 5A. APPLICANT STANDARDIZED TEST SCORES AND GRADE POINT AVERAGES (GPA),  
FALL 2007**

	GRE Verbal	GRE Quantitative	(V+Q)	GRE Analytical	GPA	TOEFL	GMAT	MCAT
<b>ACC</b>					3.3	256	612	
<b>BAMB*</b>	503	725	1228	3.9	3.4	262		33
<b>BIO</b>	534	672	1206	4.6	3.4	248		35
<b>BMES*</b>	504	730	1234	4.2	3.3	215		33
<b>CABI*</b>	508	698	1206	4.1	3.3	263		35
<b>CHM</b>	455	697	1152	4.0	3.4	254		31
<b>CNS</b>	507	575	1082	4.5	3.4			
<b>COM</b>	524	593	1117	4.7	3.4	261		
<b>COMD</b>	700	570	1270		3.3			
<b>CSC</b>	482	718	1200	3.9	3.4	247		
<b>EDU</b>	548	638	1186	5.0	3.5			
<b>ENG</b>	626	608	1234	5.3	3.7			
<b>HES</b>	437	595	1032	4.1	3.3	245		
<b>HSRP</b>	458	614	1072	3.9	3.4	233		
<b>MCPA*</b>	494	701	1195	3.9	3.3	333		33
<b>MD/PhD</b>					3.7			33
<b>MICR*</b>	504	678	1182	4.0	3.4	257		32
<b>MLS</b>					3.2			
<b>MOGN*</b>	533	702	1235	4.3	3.4	245		34
<b>MOME*</b>	499	683	1182	4.1	3.4	235		31
<b>MTH</b>	555	744	1299	4.7	3.5	261		
<b>NBAT*</b>	535	675	1210	4.3	3.3	248		33
<b>NUSC*</b>	568	699	1267	4.5	3.5	241		32
<b>PHY</b>	464	752	1216	4.1	3.5	245		37
<b>PSPR*</b>	506	650	1156	4.3	3.2	230		30
<b>PSY</b>	516	606	1122	4.7	3.5	245		
<b>REL</b>	568	634	1202	4.9	3.4			
<b>VIF</b>	363	399	762	3.5	3.8			
<b>BG</b>	526	677	1203	3.8	3.4	230		33
<b>REY</b>	506	633	1139	4.5	3.4	251	612	34
<b>AVERAGE</b>	516	655	1171	4.2	3.4	241	612	34

\*Includes MD/PhD Applicants

TOEFL data reported as computer-based test results



**TABLE 5B. ACCEPTED STUDENTS STANDARDIZED TEST SCORES AND GRADE POINT AVERAGES (GPA), FALL 2007**

	GRE Verbal	GRE Quantitative	(V+Q)	GRE Analytical	GPA	TOEFL	GMAT	MCAT
<b>ACC</b>					3.4		629	
<b>BAMB*</b>	535	679	1214	4.1	3.4	267		33
<b>BIO</b>	573	681	1254		3.5	237		
<b>BMES</b>	518	740	1258	4.7	3.6	207		
<b>CABI*</b>	555	672	1227	4.8	3.7	267		32
<b>CHM</b>	495	691	1186		3.6	263		
<b>CNS</b>	571	609	1180		3.6			
<b>COM</b>	571	644	1215		3.4	269		
<b>COMD</b>	700	570	1270		3.3			
<b>CSC</b>	546	690	1236		3.7			
<b>EDU</b>	560	667	1227		3.5			
<b>ENG</b>	663	640	1303		3.8			
<b>HES</b>	475	669	1144		3.5			
<b>HSRP</b>	600	695	1295	5.5	3.6	99		
<b>MCPA*</b>	488	720	1208	4.1	3.6	390		34
<b>MD/PhD</b>					3.8			32
<b>MICR</b>	507	698	1205	4.2	3.6	263		
<b>MLS</b>					3.3			
<b>MOGN*</b>	535	678	1213	4.2	3.6	203		31
<b>MOME*</b>	548	677	1225	4.8	3.4	195		32
<b>MTH</b>	639	771	1410		3.7			
<b>NBAT*</b>	614	734	1348	4.2	3.2	240		33
<b>NUSC</b>	598	702	1300	4.6	3.6	269		
<b>PHY</b>	539	763	1302		3.8	260		
<b>PSPR*</b>	504	680	1184	4.1	3.5			30
<b>PSY</b>	596	689	1285		3.6			
<b>REL</b>	587	670	1257		3.5			
<b>VIF</b>	390	465	855		3.9			
<b>BG</b>	512	687	1199	4.5	3.5	240		32
<b>REY</b>	554	665	1219		3.6	257	629	
<b>AVERAGE</b>	533	676	1209	4.5	3.6	249	629	32

\*Includes MD/PhD Accepted

TOEFL data reported as computer-based test results

TABLE 5C. MATRICULATED STUDENTS STANDARDIZED TEST SCORES AND GRADE POINT AVERAGES (GPA), FALL 2007

	GRE Verbal	GRE Quantitative	(V+Q)	GRE Analytical	GPA	TOEFL	GMAT	MCAT Scores			
								Verb	Phys	Biol	Total
ACC					3.3		629				
BAMB*	518	680	1198	4.0	3.2			11	13	10	34
BIO	589	699	1288	5.1	3.5						
BMES	504	731	1235	4.7	3.6	257					
CABI	520	650	1170	4.2	3.2	267					
CHM	479	686	1165	4.2	3.5	260					
CNS	572	611	1183	5.0	3.6						
COM	547	619	1166	4.9	3.2	269					
COMD	700	570	1270		3.3						
CSC	540	685	1225	4.3	3.7						
EDU	561	664	1225	4.8	3.5						
ENG	643	648	1291	5.3	3.8						
HES	475	669	1144	4.1	3.5						
HSRP	600	695	1295	5.5	3.6						
MCPA	520	740	1260	4.4	3.4	275					
MD/PhD				5.5	3.6			11	12	10.5	33.5
MICR	503	665	1168	4.5	3.5						
MLS					3.3						
MOGN	513	648	1161	3.8	3.7	203					
MOME	565	654	1219	4.9	3.6	195					
MTH	639	773	1412	4.9	3.7						
NBAT*	567	707	1274	4.0	3.4	240		11	11	11	33
NUSC	605	707	1312	4.4	3.3						
PHY	605	770	1375	5.3	3.9						
PSPR	450	657	1107	4.2	3.5						
PSY	607	684	1291	5.2	3.6						
REL	576	663	1239	4.8	3.5						
VIF	390	465	855	3.9	3.9						
BG	547	675	1222	4.4	3.4	240					
REY	556	664	1220	4.8	3.6	265	629				
AVERAGE	552	670	1222	4.6	3.5	253	629				

\*Includes MD/PhD Matriculants

TOEFL data are reported as computer-based test results

TABLE 6. STUDENT ENROLLMENT BY PROGRAM AND DEGREE, FALL 2007

	PhD Programs			Masters Programs	Unclassified	TOTAL
	PhD	MS	MD/PhD			
ACC				76		76
BAMB	28					28
BIO	23			15		38
BMES - WFU*	18		1	5		24
BMES - VT	26			9		35
CABI	23					23
CHM	35			6		41
CNS				31		31
COM				17		17
COMD				1		1
CSC				16		16
EDU				23		23
ENG				22		22
HES				14		14
HSRP				28		28
MCPA	18					18
MICR	29					29
MLS				66		66
MOGN	25					25
MOME*	30	1	4			35
MTH				17		17
NBAT*	13	1	1			15
NUSC*	27	1	2			30
PHY	19			1		20
PSPR*	23		1			24
PSY				21		21
REL				13		13
VIF				19		19
UNCL-BG					28	28
UNCL-REY					15	15
BG	260	3	9	43	28	343
REY	77	0	0	357	15	449
TOTAL	337	3	9	400	43	792

TABLE 7. DEGREE-SEEKING STUDENT PROFILE BY PROGRAM, RACE AND ETHNICITY, INTERNATIONAL STATUS, FALL 2007

	White		Black		Hispanic		Asian		Am Ind		International	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
ACC	43	26	2	2	0	0	0	0	0	0	0	3
BAMB	10	10	1	3	0	0	0	0	0	0	2	2
BIO	12	22	0	0	0	0	0	1	0	0	0	3
BMES*	17	21	1	0	0	1	2	2	0	0	9	6
CABI	3	8	0	4	0	0	1	1	0	0	3	3
CHM	9	13	0	1	1	0	0	0	0	0	11	6
CNS	7	18	1	2	1	0	0	1	0	0	0	1
COM	5	7	0	0	0	0	0	0	0	0	1	4
COMD	0	1	0	0	0	0	0	0	0	0	0	0
CSC	11	0	0	0	0	0	1	0	0	0	3	1
EDU	8	12	0	3	0	0	0	0	0	0	0	0
ENG	8	13	0	0	0	0	0	0	0	0	0	1
HES	3	10	0	0	0	0	0	0	0	0	1	0
HSRP	10	4	3	3	0	0	1	1	0	0	4	2
MCPA	4	7	0	1	0	0	0	1	0	0	3	2
MD/PhD§	3	4	0	0	0	0	1	1	0	0	0	0
MICR	7	15	1	2	0	0	0	0	0	0	1	3
MLS	22	34	1	8	0	0	0	0	0	0	0	1
MOGN	4	9	1	1	1	0	0	1	0	0	1	7
MOME*	5	18	2	3	0	0	1	2	0	0	1	3
MTH	8	5	0	0	0	0	1	1	0	0	2	0
NBAT*	3	2	0	1	0	0	1	1	0	0	3	4
NUSC*	12	12	2	0	2	0	0	0	0	0	0	2
PHY	14	2	0	0	0	0	0	0	0	0	4	0
PSPR*	9	7	2	2	0	0	0	0	0	0	2	2
PSY	7	12	0	0	0	0	0	1	0	0	0	1
REL	6	6	0	0	0	0	0	0	0	0	0	1
VIF	0	0	0	0	0	0	0	0	0	0	2	17
BG	84	114	13	20	3	1	6	9	0	0	29	36
	62.9%				16.5%						20.6%	
REY	163	180	4	16	2	0	2	4	0	0	24	39
	79%				6.5%						14.5%	
TOTALS	247	294	17	36	5	1	8	13	0	0	53	75

§Not included in totals - already counted in programs of study

\*Includes MD/PhD Matriculants

International - Non-US address, ethnicity not checked

**TABLE 8. PROFILE OF INTERNATIONAL STUDENTS BY COUNTRY, CONTINUING OR NEW STATUS, AND PROGRAM, FALL 2007**

Country of Origin	Continuing Students	New Students	Programs of Study (# of Students)	
			Continuing	New
Argentina	1	1	NBAT (1)	VIF (1)
Austria	1		BIO (1)	
Belarus	1		PSPR (1)	
Brazil	2		CHM (1); NBAT (1)	
Canada	3		CABI (1); MOME (1); VIF (1)	
China	28	10	ACC (1); BAMB (1); BMES (5); CABI (1); CHM (6); MCPA (3); MICR (1); MOGN (2); MTH (2); NBAT (1); NUSC (1); PHY (3); VIF (1)	ACC (2); BMES (2); CABI (1); CHM (1); COM (2); MCPA (2)
Columbia	4	1	BIO (1); VIF (3)	BMES (1)
Dominican Republic	1		NBAT (1)	
Egypt	2		CHM (1); HSRP (1)	
Equador	1		VIF (1)	
Ethiopia	1		MICR (1)	
France		1		CSC (1)
Germany		1		MOME (1)
Ghana	1	1	COM (1)	MICR (1)
India	25	7	BAMB (2); BIO (1); BMES (4); CABI (2); CHM (5); COM (1); CSC (1); HES (1); MICR (1); MOGN (1); NBAT (1); PHY (1); PSPR (2); PSY (1); VIF (1)	HSRP (2); MOGN (3); MOME (1); REL (1)
Indonesia	1		CHM (1)	
Jamaica	1	6	VIF (1)	VIF (6)
Japan	2		COM (1); HSRP (1)	
Jordan	1		BAMB (1)	
Korea	2	1	BMES (2)	BMES (1)
Mexico	1	1	CHM (1)	CHM (1)
Norway	1		NBAT (1)	
Panama		1		CSC (1)
Romania	2		CNS (1); HSRP (1)	
Russian Federation	2		CABI (1); MLS (1)	
Seychelles	1		HSRP (1)	
Sierra Leone		1		PSPR (1)
South Africa		2		NBAT (1); VIF (1)
Spain	1		NBAT (1)	
Thailand	1		MOGN (1)	
Turkey	2		ENG (1); MOGN (1)	
Viet Nam		1		MOME (1)
Yugoslavia		1		CSC (1)
BG	47	18		
REY	42	18		
<b>TOTALS</b>	<b>89</b>	<b>36</b>		

**TABLE 9. DEGREES AWARDED BY PROGRAM AND  
DEGREE, 2007-2008 AY**

	PhD Programs		Masters Programs	TOTAL
	PhD	MS		
ACC			58	58
BAMB	4	1		5
BIO	1		3	4
BMES - WFU	3		3	6
BMES - VT	5		1	6
CABI*	8			8
CHM			6	6
CNS			16	16
COM			9	9
COMD				0
CSC			7	7
EDU			27	27
ENG			10	10
HES			7	7
HSRP			6	6
MCPA	4			4
MICR	6			6
MLS			13	13
MOGN	5			5
MOME*	10	1		11
MTH			8	8
NBAT*	4			4
NUSC*	6	1		7
PHY	1			1
PSPR*	4			4
PSY			14	14
REL			1	1
VIF			7	7
BG	59	3	10	72
REY	2	0	186	188
TOTAL	61	3	196	260
MD/PhD	5			5

\*Includes MD/PhD Graduates

**TABLE 10. TIME TO PhD DEGREE BY  
PROGRAM, 2007-2008**

Number of Years*	
<b>BAMB</b>	5.5
<b>BIO</b>	4.6
<b>BMES</b>	5
<b>CABI</b>	5.5
<b>CHM</b>	
<b>MCPA</b>	6
<b>MICR</b>	5.5
<b>MOGN</b>	5.7
<b>MOME</b>	4.7
<b>NBAT</b>	6
<b>NUSC</b>	5.5
<b>PHY</b>	5.7
<b>PSPR</b>	5

\*Average of Years from matriculation to awarding of the degree

**TABLE 11. PLACEMENT BY PROGRAM, UNDERGRADUATE INSTITUTION, DEGREE, AND PLANS, 2007-2008 AY**

Program	Undergraduate Inst.	Degree	Plans
ACC	Appalachian State University	MSA	PriceWaterhouseCoopers, Charlotte, NC
	Belarus State Economic University		PriceWaterhouseCoopers, McLean, VA
	Davidson College		Pursue further education, Location Unknown
	East China University of Science and Technology		Internal Auditor, Location Unknown
	Elon University		PriceWaterhouseCoopers, Greensboro, NC
	James Madison University		KPMG, Richmond, VA
	Rhodes College		PriceWaterhouseCoopers, Atlanta, GA
	Sichuan University		KPMG, Greensboro, NC
	UNC-Greensboro		PriceWaterhouseCoopers, Greensboro, NC
	University of Richmond		Ernst & Young, Charlotte, NC
	Wake Forest University*		Deloitte & Touche, Seattle, WA
			KPMG, Charlotte, NC (6)
			Ernst & Young, New York, NY
			Analyst, San Diego, CA
			Banking Position, Location Unknown
			Ernst & Young, Philadelphia, PA (2)
			Bear Stearns, New York, NY
			PriceWaterhouseCoopers, New York, NY (5)
			PriceWaterhouseCoopers, Baltimore, MD
			PriceWaterhouseCoopers, Chicago, IL
			Pursue JD, University of Florida, Gainesville, FL
			Credit Saisse, New York, NY
			PriceWaterhouseCoopers, Greensboro, NC
			PriceWaterhouseCoopers, Atlanta, GA (3)
			PriceWaterhouseCoopers, Charlotte, NC (3)
			Reznick Group, Charlotte, NC (2)
			KPMG, Chicago, IL
			Ernst & Young, Boston, MA
			PriceWaterhouseCoopers, Washington, DC (2)

\*All Subsequent from WFU



**TABLE 11. PLACEMENT BY PROGRAM, UNDERGRADUATE INSTITUTION, DEGREE, AND PLANS, 2007-2008 AY**

<b>Program</b>	<b>Undergraduate Inst.</b>	<b>Degree</b>	<b>Plans</b>
<b>ACC</b>	Wake Forest University		Ernst & Young, Chicago, IL
			Ernst & Young, Tysons Corner, VA
			Dixon Hughes, Asheville, NC
			Gettenberg Consulting, New York, NY
			PriceWaterhouseCoopers, Boston, MA
			Bank of America Securities, Charlotte, NC
			Pursue MBA, Location Unknown
<b>BAMB</b>	Dalian Medical College	PhD	Unknown
	University of Asmara		Research Analyst, ImClone Systems, Inc., Branchburg, New Jersey
	University of Kentucky		Post Doc, National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda, MD
	UNC-Wilmington		Post Doc, EPA, Research Triangle Park, NC
	UNC-Greensboro	MS	Biological Scientist, Targacept, Winston-Salem, NC
<b>BIO</b>	North Carolina A & T State University	PhD	Post Doc, University of Florida, Gainesville, FL
	UNC-Chapel Hill		Post Doc, Environmental Protection Agency, Pensacola, FL
	University of Wyoming		Unknown
	Wabash College		Post Doc, St. Jude Children's Hospital, Memphis, TN
	College of Agriculture, India	MS	Pursue PhD in Biology, WFU
	Millersville University of Pennsylvania		Pursue PhD, WFU (2)
	Mount Holyoke College		Pursue PhD, Location Unknown
	UNSAAC, Cusco		Environmental Consultant, Location Unknown
	University of Chicago		Research Assistant, Lawrence Berkeley National Laboratory, Berkeley, CA

**TABLE 11. PLACEMENT BY PROGRAM, UNDERGRADUATE INSTITUTION, DEGREE, AND PLANS, 2007-2008 AY**

<b>Program</b>	<b>Undergraduate Inst.</b>	<b>Degree</b>	<b>Plans</b>
<b>BMES</b>	College of Charleston	PhD	Post Doc, WFUSM
	Virginia Polytechnic Institute and State University		Research Engineer, Creare Inc., Hanover, NH
	Capital University of Medical Sciences	MS	CV Path Institute, Gaithersburg, MD
	Jiang Xi Medical College		Unknown Pursue PhD, Location Unknown
<b>CABI</b>	Appalachian State University	PhD	Pursue MD, WFUSM
	Bennett College		Medical Writer, Location Unknown
	Elizabeth City State University		Post Doc, UNC-Chapel Hill
	Radford University		Post Doc, St. Jude's Research Hospital, Memphis, TN
	University of California, Los Angeles		Unknown
	University of Dayton		Post Doc, Location Undecided
	University of Georgia		Post Doc, Fredrick, MD
	Virginia Polytechnic Institute and State University		Post Doc, Dartmouth University, Hanover, NH
<b>CHM</b>	Beijing University	PhD	Post Doc, Location Unknown
	Centre College		Savannah River Site, Aiken, SC
	East Carolina University		Metrics, Inc., Greenville, NC
	I.I.T. Khoagpun		Post Doc, University of Texas Medical Branch, Galveston, TX
	Northwest University		Unknown
	UNC-Greensboro		Post Doc, WFUSM
	University of South Carolina - Spartanburg	MS	Unknown
<b>CNS</b>	Bucknell University	MA	Unknown
	Converse College		School Counselor, Location Unknown
	James Madison University		Unknown
	North Carolina State University		Pursue PhD, UNC-Greensboro, Greensboro, NC
	Salisbury University		Unknown
	University of Maryland		School Counselor, Location Unknown
			Unknown
	UNC-Chapel Hill		Pursue PhD in Counseling, UNC- Greensboro, Greensboro, NC
			School Counselor, Location Unknown
	University of Vermont		Elementary School Counselor, Location Unknown
	University of Virginia		Unknown
	Wake Forest University		Unknown School Counselor, Location Unknown

**TABLE 11. PLACEMENT BY PROGRAM, UNDERGRADUATE INSTITUTION, DEGREE, AND PLANS, 2007-2008 AY**

<b>Program</b>	<b>Undergraduate Inst.</b>	<b>Degree</b>	<b>Plans</b>
<b>COM</b>	Appalachian State University	MA	Pursue PhD in Communication, Location Unknown
	Cedarville University		Pursue PhD, University of Nebraska, Lincoln, NE
	Eastern University		Director, Freedom Schools, Davidson College, Davidson, NC
	Emporia State University		Pursue PhD, Location Unknown
	Tsuda College		Unknown
	University of Delhi		Pursue MFA, Location Unknown
	UNC-Chapel Hill		Unknown
	Wake Forest University		Pursue PhD, Michigan State University, East Lansing, MI
<b>CSC</b>	Elon University	MS	Unknown
	James Madison University		Software Engineer, Crest Wall Systems, Winston-Salem, NC
	Roanoke College		Unknown
	Virginia Commonwealth University		Unknown
	Wake Forest University		Unknown (3)
<b>EDU</b>	Appalachian State University	MAEd	Teacher, Newton-Conover City Schools, Newton, NC
			Teacher, Moore Elementary, Winston-Salem, NC
	Barry University		Teach at Educational Institution in Jamaica
	Duke University		Teacher, Topanga Mountain High School, Woodland Hills, CA
	Egerton University		Pursue further education, Location Unknown
	Elon University		Teach in Maryland
	Furman University		Teacher, Alpharetta High School, Alpharetta, GA
	Georgia Institute of Technology		Teacher, Winston-Salem/Forsyth Cty Schools, Winston-Salem, NC
	North Carolina State University		Teacher, Parkland High School, Winston-Salem, NC
	Northwestern University		Teacher, Forsyth Country Day School, Lewisville, NC
	St. Thomas University		Teacher, Calgary Catholic School, Alberta, Canada
	Universidad de Buenos Aires		Pursue PhD, Virginia Polytechnic Institute & State University, Blacksburg, VA

**TABLE 11. PLACEMENT BY PROGRAM, UNDERGRADUATE INSTITUTION, DEGREE, AND PLANS, 2007-2008 AY**

Program	Undergraduate Inst.	Degree	Plans
EDU	UNC-Chapel Hill		Teacher, Thomasville Middle School, Thomasville, NC
			Teach, Durham Public Schools, Durham, NC
			Teach, Charlotte, NC
			Teacher, Southeast Raleigh Magnet High School, Raleigh, NC
			Teach, Durham Public Schools, Durham, NC
			Teacher, Montgomery County Public Schools, Montgomery County, MD
			Teach, Durham Public Schools, Durham, NC
			Teacher, Marion, NC
			Pursue EdD in Education, Location Unknown
			Teacher, Washington, DC
	University of the West Indies		Pursue PhD in Education, Location Unknown
			Pursue PhD in Education, Location Unknown
	Victoria University		Pursue PhD in Education, South Carolina
	Wake Forest University		Teacher, Chapel Hill Senior High School, Chapel Hill, NC
			Teach, Durham Public Schools, Durham, NC
			Teacher, Location Unknown
			Teacher, Raleigh, NC
ENG	Centre College	MA	Unknown, Louisville, KY
			Teacher, Assumption High School, Louisville, KY
	George Washington University		Unknown
	Salem College		Northstar Travel Media, Winston-Salem, NC
	University of Georgia		Unknown
	University of Illinois at Chicago		Pursue PhD, University of Rochester, Rochester, NY
	UNC-Chapel Hill		Office Assistant, WFU
			Pursue PhD, University of Maryland, College Park, MD
	Wake Forest University		Pursue MFA, Location Unknown
			Unknown (2) Public Relations, Atlanta, GA

**TABLE 11. PLACEMENT BY PROGRAM, UNDERGRADUATE INSTITUTION, DEGREE, AND PLANS, 2007-2008 AY**

<b>Program</b>	<b>Undergraduate Inst.</b>	<b>Degree</b>	<b>Plans</b>
<b>HES</b>	College of William and Mary	MS	Unknown
	Elon University		Research Coordinator, WFU
	Furman University		Exercise Physiologist, Carolinas Medical Center, Charlotte, NC
	James Madison University		Cardiac Rehab, Virginia
	Lynchburg College		Unknown
	University of New Hampshire		Unknown
	University of Wisconsin		Unknown
<b>HSRP</b>	Cairo University	MS	Research Associate, WFUSM
	Mount Holyoke College		Physician, WFUSM
	University of Georgia		Fellow, WFUSM
	University of Miami		Physician, WFUSM
	UNC-Chapel Hill		Physician, WFUSM
	Wofford College		Physician, WFUSM
<b>MCPA</b>	Duquesne University	PhD	Post Doc, WFUSM
	North Carolina State University		Pursue DVM, Virginia Polytechnic Institute and State University, Blacksburg, VA
	University of Central Florida		Post Doc, WFUBMC
	Wake Forest University		Post Doc, Florida
<b>MICR</b>	Appalachian State University	PhD	Post Doc, Washington University, St. Louis, MO
	Bennett College for Women		Post Doc, National Institutes of Health, Bethesda, MD
	Boston College		Post Doc, UNC-Chapel Hill
	Catawba College		Clinical Microbiologist, Location Unknown
	Salem College		Post Doc, WFUSM
	Susquehanna University		Post Doc, National Institute of Neurological Disorders and Stroke, Bethesda, MD
<b>MLS</b>	Appalachian State University	MALS	Bookstore Owner/Seller
	Bluefield College		Unknown
	Cuny University of Queens		Full-time artist and writer
	Elon University		Divinity School, WFU
	Guilford College		Pursue PhD, Location Unknown

**TABLE 11. PLACEMENT BY PROGRAM, UNDERGRADUATE INSTITUTION, DEGREE, AND PLANS, 2007-2008 AY**

<b>Program</b>	<b>Undergraduate Inst.</b>	<b>Degree</b>	<b>Plans</b>
<b>MLS</b>	Iowa State University		Unknown
	North Carolina State University		Writer, The News and Observer, Raleigh, NC
	University of Kentucky		Editor, Hearst Business Media Group, Unimdale, NY (2)
	University of Virginia		Unknown
	Wake Forest University		Unknown (3)
<b>MOGN</b>	High Point University	PhD	Post Doc, University of Pittsburgh, Pittsburgh, PA
	James Madison University		Post Doc, WFUSM
	Moravian College		Post Doc, Virginia Commonwealth University, Richmond, VA
	Texas Christian University		Post Doc, Harvard University, Boston, MA
	University of Georgia		Unknown
<b>MOME</b>	Augustana College	PhD	Post Doc, Northwestern University, Chicago, IL
	Eckerd College		Post Doc, WFUSM
	Loyola College		Pursue MD, WFUSM
	Mount Olive College		Post Doc, WFUSM
	North Carolina A & T University		Post Doc, Location Unknown
	North Carolina State University		Post Doc, WFUSM
	Pennsylvania State University		Post Doc, University of Pennsylvania, Philadelphia, PA
			Post Doc, Location Unknown
	University of Pittsburgh		Post Doc, Ludwig Institute for Cancer Research, San Diego, CA
	Virginia Polytechnic Institute and State University		Post Doc, Location Unknown
	University of the District of Columbia	MS	Unknown
<b>MTH</b>	Antioch College	MA	Pursue PhD, University of South Carolina, Columbia, SC
	Elizabethtown College		Analyst, Maryland
	High Point University		Pursue PhD, Clemson University, Clemson, SC
	Tsinghua University		Research Associate, WFUSM
	Wake Forest University		Pricing Analyst, GMAC Insurance, Winston-Salem, NC
	Winthrop University		Unknown

**TABLE 11. PLACEMENT BY PROGRAM, UNDERGRADUATE INSTITUTION, DEGREE, AND PLANS, 2007-2008 AY**

<b>Program</b>	<b>Undergraduate Inst.</b>	<b>Degree</b>	<b>Plans</b>
<b>NBAT</b>	Colorado State University	PhD	Unknown
	East Carolina University		Unknown
	Universidade Federal de Pernambuco		Post Doc, WFUBMC
	Virginia Military Institute		Pursue MD, WFUSM
<b>NUSC</b>	Clemson University	PhD	Oceania University of Medicine, Samoa
	Florida Atlantic University		Post Doc, Carnegie Mellon, Pittsburgh, PA
	Furman University		Teaching, UNC-Chapel Hill, Chapel Hill, NC
	UNC-Greensboro		Post Doc, WFUSM
	Washington University		Pursue MD, WFUSM
	Winston-Salem State University		Post Doc, Location Unknown
	Fudan University	MS	Unknown
<b>PHY</b>	Nankai University	PhD	Post Doc, Location Unknown
	Tsinghua University		Pursue MS in Accounting, WFU
	Wake Forest University		Faculty, Western Carolina University, Cullowhee, NC
	Yangzhou University		Unknown
	University of Florida	MS	Staff Scientist/Engineer, Location Unknown
<b>PSPR</b>	California Polytechnic University College of Veterinary & Animal Sciences	PhD	Post Doc, WFUSM Post Doc, University of Chicago, Chicago, IL
	University of Georgia		Pursue MD, WFUSM
	University of Mysore		Visiting Scientist, UNC-Chapel Hill, Chapel Hill, NC
<b>PSY</b>	Duke University	MA	Research Coordinator, Duke University, Durham, NC
	Emory and Henry College		Unknown
	Emory University		Pursue PhD in Psychology, Drexel University, Philadelphia, PA

**TABLE 11. PLACEMENT BY PROGRAM, UNDERGRADUATE INSTITUTION, DEGREE, AND PLANS, 2007-2008 AY**

<b>Program</b>	<b>Undergraduate Inst.</b>	<b>Degree</b>	<b>Plans</b>
<b>PSY</b>	Furman University		Pursue PhD, Washington State University, Pullman, WA
	Ohio State University		Pursue PhD, Northwestern University, Evanston, IL
	University of Arizona		Research Analyst, Pullman, WA
	University of Florida		Program Coordinator, UNC-Greensboro Human and Family Development, Greensboro, NC
	UNC-Charlotte		Pursue MA in Family Therapy, East Carolina University, Greenville, NC
	University of Notre Dame		Unknown
<b>REL</b>	Appalachian State University	MA	Pursue MA/PhD in Languages and Asian Cultures, University of Texas at Austin, Austin, TX
	Biola University		Pursue MA or PhD, Baylor University, Waco, TX
	Clemson University		Pursue JD, UNC-Chapel Hill, Chapel Hill, NC
	College of William and Mary		Unknown (2)
	Wake Forest University		Pursue PhD in history, Location Unknown
	Western Kentucky University		Unknown



**TABLE 12. FINANCIAL AID AMOUNT BY PROGRAM, 2007-2008 AY**

	<b>Tuition#</b>	<b>Per Course Tuition</b>	<b>Stipend*</b>	<b>Fellowship</b>	<b>Master Teacher Fellows</b>	<b>Minority Fellowships</b>	<b>Dean's Assistantships</b>
<b>ACC</b>	28,340		6,000				
<b>BAMB</b>	28,640		20,772				
<b>BIO</b>	28,340		15,850				19,350
<b>BMES</b>	28,640		20,772				
<b>CABI</b>	28,640		20,772				
<b>CHM</b>	28,340		20,000				22,000
<b>CNS</b>	28,340		6,000				
<b>COM</b>	28,340		8,000	4,000			
<b>COMD</b>	28,640		20,772				
<b>CSC</b>	28,340		12,000				
<b>EDU</b>	28,340				6,000	8,000	
<b>ENG</b>	28,340		8,000	4,000			
<b>HES</b>	28,340		8,500				
<b>HSRP</b>	28,640		20,772				
<b>MCPA</b>	28,640		20,772				
<b>MD/PhD</b>	28,640		20,772				
<b>MICR</b>	28,640		20,772				
<b>MLS</b>		816					
<b>MOGN</b>	28,640		20,772				
<b>MOME</b>	28,640		20,772				
<b>MTH</b>	28,340		10,500	4,000			
<b>NBAT</b>	28,640		20,772				
<b>NUSC</b>	28,640		20,772				
<b>PHY</b>	28,340		16,500				20,000
<b>PSPR</b>	28,640		20,772				
<b>PSY</b>	28,340		8,500				
<b>REL</b>	28,340		8,000	4,000			
<b>VIF</b>		405					

#Tuition of \$28,640 includes summer tuition of \$300 per year for Bowman Gray Campus

\*Stipend of \$20,772 includes contribution to health insurance premium of an additional \$1,800 for Bowman Gray Campus students

TABLE 13. SOURCES OF FINANCIAL AID BY PROGRAM AND TYPE OF SUPPORT, 2007-2008 AY

	Institutional Support					External Support			Other Support	TOTALS
	Graduate Fellowship	Dean's Fellowship	Assistantship	Non-grad Institutional	Tuition Scholarship	Training Grant	Research Grant	Indiv Award		
ACC			18		56				2	76
BAMB	10						18			28
BIO			21	2	2		5		8	38
BMES - WFU	4			8			12			24
BMES - VT\$										35
CABI*	4			2		5	9	3		23
CHM		1	17		2		18		3	41
CNS			9	5	16		1			31
COM			15	1	1					17
COMD						1				1
CSC			10	2			3		1	16
EDU	23									23
ENG	2		5		13				2	22
HES			14							14
HSRP				1	5	4	1		17	28
MCPA	6			3		2	6	1		18
MICR	10					4	15			29
MLS				16					50	66
MOGN	4			3			18			25
MOME*	6			5	3	4	10	6	1	35
MTH			12		3				2	17
NBAT*	7					2	6			15
NUSC*	8					6	10	6		30
PHY		1	11				6		2	20
PSPR*	3					11	10			24
PSY			13		1		5		2	21
REL	1		1		8				3	13
VIF									19	19
UNCL-BG									28	28
UNCL-REY				1	3				11	15
BG	62	0	0	22	8	39	115	16	46	308
REY	26	2	146	27	105	0	38	0	105	449
TOTAL	88	2	146	49	113	39	153	16	151	757

\*Includes MD/PhD Support

§Virginia Tech support information not available

## **5. APPENDICES**

### **Administration, Graduate School of Arts and Sciences**

Lorna G. Moore, Ph.D., Dean

Cecilia H. Solano, Ph.D., Associate Dean, Director of the MALS Program,  
Reynolda Campus

Linda C. McPhail, Ph.D., Associate Dean,  
Bowman Gray Campus

Debbie S. Deheck, Assistant to the Dean,  
Reynolda Campus

Carol E. DiGiantommaso, Admissions Coordinator,  
Reynolda Campus

Susan C. Pierce, Registrar and Coordinator,  
Bowman Gray Campus

Kelley N. Reavis, Administrative Assistant, Student Records,  
Bowman Gray Campus

Beth R. Whitsett, Administrative Assistant, Admissions,  
Bowman Gray Campus

Wanda Duncan, Administrative Coordinator (part-time),  
Reynolda Campus

Sheila White, Administrative Assistant (part-time),  
Reynolda Campus

Michelle Silveri, Staff Assistant (part-time),  
Reynolda Campus

### **Standing Committees of the Graduate School**

#### **Graduate Council**

Lorna G. Moore, Dean, Chair

Cecilia H. Solano, Associate Dean

Allyson Bennett, Physiology and Pharmacology (2008)

K. Bridget Brosnihan, Hypertension Center (2010)

Doug Case, Public Health Sciences (2009)

Christa Colyer, Chemistry (2008)#

Martin Guthold, Physics (2010)

David John, Computer Science (2008)

### Graduate Council (continued)

Greg Kucera, Hematology/Oncology (2008)  
Leah McCoy, Education (2010)  
Linda McPhail, Associate Dean (2010)  
Mark Miller, Cancer Biology (2009)  
Pat Nixon, Health and Exercise Science (2009)  
David Ornelles, Microbiology and Immunology (2010)  
Brian Tague, Biology (2009)  
Delphine Masse (GSA, Reynolda Campus)  
Sylvia Holcombe (GSA, Bowman Gray Campus)

*\* Year term expires*

*# Secretary to the Council and Graduate Faculty*

### Graduate Council Committees

#### *Credentials/Nominations Committee*

Pat Nixon (Chair)  
Allyson Bennett  
Mark Miller  
David Ornelles

#### *Curriculum Committee*

Doug Case (Chair)  
Christa Colyer  
Martin Guthold  
Brian Tague

#### *Policy Committee*

Leah McCoy (Chair)  
K. Bridget Brosnihan  
Greg Kucera  
David John  
Delphine Masse  
Sylvia Holcombe

### Biomedical Sciences Committee (Bowman Gray Campus)

Lorna G. Moore, Dean, Chair  
Cecilia H. Solano, Associate Dean  
Linda C. McPhail, Associate Dean  
Steven A. Akman, Cancer Biology  
Martha Alexander-Miller, Microbiology and Immunology  
Ronny A. Bell, Health Sciences Research

Biomedical Sciences Committee (Bowman Gray Campus continued)

Donald Bowden, Molecular Genetics and Genomics  
K. Bridget Brosnihan, Molecular Medicine  
Dwayne Godwin, PhD/MBA  
David Goff, Health Sciences Research  
Craig Hamilton, Biomedical Engineering  
Kevin High, Molecular Medicine  
Sara Jones, Physiology and Pharmacology  
Paul Laurienti, MD/PhD  
Charles McCall, MD/PhD  
Michelle Naughton, Health Sciences Research  
Ronald W. Oppenheim, Neuroscience  
John S. Parks, Molecular and Cellular Pathobiology  
Susan C. Pierce, Registrar and Coordinator  
Emilio Salinas, Neurobiology and Anatomy  
Karin Scarpinato, Cancer Biology  
Suzy Torti, Biochemistry  
Jeff Weiner, Physiology and Pharmacology

Graduate Program Directors Committee (Reynolda Campus)

Lorna G. Moore, Dean, Chair  
Ed Allen, Mathematics  
Samuel Gladding, Counseling  
Martin Guthold, Physics  
Yvonne Hinson, Accountancy  
Simeon Ilesamni, Religion  
David John, Computer Science  
Bruce King, Chemistry  
Scott Klein, English  
Anthony Marsh, Health and Exercise Science  
Leah McCoy, Education  
Ananda Mitra, Communication  
Catherine Seta, Psychology  
Cecilia H. Solano, Liberal Studies  
Brian Tague, Biology

MD/PhD Committee

Paul Laurienti, Radiologic Sciences, Chair  
Charles McCall, Molecular Medicine  
Lorna G. Moore, Dean  
Lewis Nelson, Associate Dean, Student Services and Admissions, School of Medicine

#### MD/PhD Student Review Committee

J. Mac Ernest, Associate Dean, Student Services  
Lynn Snyder, Registrar, Medical School  
Paul Laurienti, Radiologic Sciences  
Charles McCall, Molecular Medicine  
Lorna G. Moore, Dean  
Susan Pierce, Registrar, Graduate School of Arts and Sciences

#### PhD/MBA Committee

Dwayne W. Godwin, Neurobiology and Anatomy, Chair  
Jamie Barnes, Babcock Graduate School of Management  
J. Kendall Middaugh, Babcock Graduate School of Management

#### Graduate Internships Committee

Michael Tytell, Neurobiology and Anatomy, Chair  
Belen Belete, Graduate Student, Microbiology and Immunology  
William Conner, Biology  
Elizabeth Gatewood, Director, Office of Entrepreneurship and Liberal Arts  
Janice Grace, Industry Relations, Office of Research  
V. Paul Pauca, Computer Science  
Cecilia Solano, Interim Dean, Graduate School  
Peter Santago, Biomedical Engineering  
Audrey Stone, Development and Alumni Affairs  
Jeffrey Weiner, Physiology and Pharmacology

#### Advisory Committee on Ethics (ACE)

Charles Eldridge, Physiology and Pharmacology, Co-Chair  
Nancy Jones, Public Health Sciences, Co-Chair  
Heather Coan, Molecular Genetics and Genomics, Student Representative  
Clay Gabler, Virginia Tech  
Martin Guthold, Physics  
Craig Hamilton, Biomedical Engineering  
Daniel Johnson, Biology  
Ann Lambros, Medical Education  
Jennifer Mozolic, Neuroscience, Student Representative  
Meghna Ostasiewski, Biology, Student Representative  
Ann Peiffer, Radiology, Post-doctoral Fellows Representative  
Susan Pierce, Graduate School  
David Roberts, Physiology and Pharmacology  
April Ronca, Obstetrics and Gynecology  
Michael Tytell, Neurobiology and Anatomy

### Structural and Computational Biophysics Advisory Committee

Jacquelyn Fetrow, Computer Science and Physics, Chair  
Rebecca Alexander, Chemistry  
Ed Allen, Mathematics  
David John, Computer Science  
Daniel Kim-Shapiro, Physics  
Leslie Poole, Biochemistry

### VT-WFU SBES Governing Board Members

#### *WFU Members*

William Applegate, Dean, School of Medicine  
Anthony Atala, Chair, Urology  
Thomas DuBose, Professor and Chair, Internal Medicine, Member-Elect  
Doug Edgeton, Senior Vice President, WFUHS  
David Herrington, Professor, Cardiology  
Lorna G. Moore, Dean, Graduate School of Arts and Sciences  
Peter Santiago, Chair, Biomedical Engineering

#### VT Members

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Karen DePauw, Dean, Graduate School  
Ludeman Eng, Biomedical Sciences and Pathobiology, College of Veterinary  
Medicine, Member-Elect  
J. Wallace Grant, Acting Director, SBES  
Ishwar Puri, Department Head, Engineering Science and Mechanics  
Gerhardt Schurig, Dean, College of Veterinary Medicine

### **Graduate Faculty Representatives**

#### University Senate

Kathy Kron, Biology (2009)  
Mike Robbins, Radiation Oncology (2010)  
Suzy Torti, Biochemistry (2008)

#### Faculty Grievance Liaison Persons

Keith Bonin, Psychology (2009)  
Leslie B. Poole, Biochemistry (2009)

#### Graduate Student Liaison Persons

Sara Jones, Physiology and Pharmacology (2009)  
Clifford Zeyl, Biology (2009)

## **Board of Visitors of Wake Forest College & Graduate School of Arts and Sciences**

Bob Lee, Chair, Board of Visitors

### **Terms Expiring June 30, 2007**

Bruce M. Babcock	Winston-Salem, NC
Callie Anne Clark	Hinsdale, IL
Brenda E.B. Dunson	Washington, DC
Gloria Graham	Winston-Salem, NC
Robert P. Lee	Darien, CT
Debra Lee	Darien, CT
James A. Perdue	Salisbury, MD
Zachary Tate	Blowing Rock, NC
William L. Thorkelson	Rosemont, PA
John W. Wagster	Nashville, TN

### **Terms Expiring June 30, 2008**

Debra Bryant	Keswick, VA
John Crowe	Davis, CA
Sarah duPont	Charlottesville, VA
Ashley Hairston	Charlottesville, VA
Rhoda Juckett	Charlotte, NC
Page Laughlin	Winston-Salem, NC
Jack Lowden	Greenwich, CT
Toby Moffett	Washington, DC
Joe Neal	Seattle, WA
Gail Smith	Belville, NC
Cathy Thomas	Chapel Hill, NC
Betsy Tuttle-Newhall	Chapel Hill, NC
Joy Vermillion Heinsohn	Winston-Salem, NC
Mary Helen Young	Malibu, CA

### **Terms Expiring June 30, 2009**

Pete Daniel	Washington, DC
Robert M. Frehse Jr.	New York, NY
John Geissinger	Darien, CT
Maximo M. Gomez	Briarcliff Manor, NY
Olivia Britton Holding	Raleigh, NC
David B. O'Maley	Cincinnati, OH
Karen G. O'Maley	Cincinnati, OH
Deborah Shively	Malvern, PA
Glenn Shively	Malvern, PA
David P. Shouvin	Hilliard, OH



Terms Expiring June 30, 2010

Scott Bihl	New Canaan, CT
Jane Crosthwaite	South Hadley, MA
Trish Cunningham	Natural Bridge, VA
Michael Gunter	Lewisville, NC
George Hundley	Wynnewood, PA
Mark Leuchtenberger	Cambridge, MA
Marc Miller	Chicago, IL
Keith Vaughan	Winston-Salem, NC
Pam Wozniak	Charlotte, NC
Ted Wozniak	Charlotte, NC

Ex Officio Members

Donna Boswell, Trustee Liaison	Washington, DC
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