

Graduate School *of* Arts and Sciences

ANNUAL REPORT 2005-2006



WAKE FOREST
UNIVERSITY

GRADUATE SCHOOL *of*
ARTS AND SCIENCES

Annual Report
2005 - 2006

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MISSION STATEMENT

“The Graduate School, operating within the framework of these principles (of Wake Forest University), seeks to provide a community of faculty and advanced students dedicated to teaching, research and productive scholarship. Through graduate programs in the arts and sciences and the basic medical sciences, an effort is made to expand the frontiers of knowledge and to keep abreast of man’s understanding of the rapidly changing human environment. As a significant feature of the educational process, students are encouraged to develop initiative, resourcefulness and responsibility required of those who become independent intellectual leaders in their chosen fields of endeavor.”

From the Statement of Purpose, Bulletin of Wake Forest University Graduate School of Arts and Sciences, 2005-2006, page 18.

THE 2005-2006 YEAR IN REVIEW

Administration

The members of the Wake Forest University Graduate School of Arts and Sciences administrative staff for 2005-2006 are listed in the Appendix.

During the year, Dr. Melson announced his intention to step down as Dean of the Graduate School and to retire from Wake Forest effective June 30, 2006 after fifteen years of service as dean. Dr. Solano served as Associate Dean for the seventh year; she also served as Graduate Program Director for the Liberal Studies Program and as Associate Professor of Psychology. Dr. Solano was named Interim Dean of the Graduate School, effective July 1, 2006. A national search for the next dean will be conducted during the 2006-07 year. Dr. Melson was awarded emeritus status as of July 1, 2006.

At the Reynolda campus Staff Employee Awards Recognition Luncheon on October 11, 2005 Debbie Deheck, Assistant to the Dean, was recognized as one of three finalists for the 2005 Staff Employee of the Year Award. Her nomination for this award was enthusiastically supported by all graduate program directors from the Reynolda Campus. This recognition was well deserved, since Debbie has served Wake Forest University and the Graduate School in an exemplary manner for more than twenty years. Also at the luncheon, Carol DiGiantommaso was recognized for five years of service to Wake Forest and the Graduate School. Congratulations to both Debbie and Carol!

All members of the administrative staff of the Graduate School are recognized here for their continued, consistent contributions to the Graduate School and University. The staff members are intimately involved with all aspects of the Graduate School administration including the successful operation of the Graduate Council and Graduate Faculty meetings and Graduate School events, such as Commencement, the Hooding and Awards Ceremony, the Graduate School Forum, the Graduate Student Research Day and recruiting events both on and off campus. The graduate deans are indebted to the staff members for their commitment and support.

The graduate deans and administrative staff are ably assisted during the year by many faculty members who represent the Graduate School on advisory and academic committees. Faculty members also serve extensively on students' masters and doctoral thesis and dissertation committees. The contributions of faculty members on the Graduate Council and as representatives of the Graduate School on the University Senate, the Faculty Grievance Committee and as Graduate Student Liaisons are especially recognized. Graduate students also serve on the Graduate Council and on several university-wide committees representing the Graduate School; their contributions are recognized and appreciated.

Staff members from other administrative offices and some undergraduate students who worked on a part-time basis with staff members in the Reynolda campus office also provided invaluable assistance to the Graduate School. The service provided by all these

members of the university community is essential for the function of the Graduate School and is greatly appreciated.

The graduate deans also appreciate the support of the senior leadership of the University, especially Provost Dr. William C. Gordon and Senior Vice President of WFU Health Sciences Dr. William B. Applegate, for their continuing support of the Graduate School both financially and through their encouragement of the Graduate School's commitment to excellence in graduate education.

2005-06 marked the first year in attendance for the new President of Wake Forest University, Dr. Nathan O. Hatch. Dean Melson attended the Summer Leadership Conference from July 7-9, 2005 at the Greenbrier resort in West Virginia. This conference was attended by members of the Wake Forest University administration and the WFU Board of Trustees, with additional representation from Boards of Visitors of all schools including the BOV for the College and Graduate School. President Hatch convened an Academic Retreat for deans and administrators from the Reynolda campus at the Graylyn Conference Center on August 12, 2005. Discussions of the current state of WFU programs and projections for the future were the topics of discussion at these meetings. The inauguration of Dr. Hatch as the thirteenth President of Wake Forest University took place on October 20, 2005.

A Planning Council was assembled by President Hatch to coordinate a strategic planning process for the Reynolda campus beginning in April 2006 and concluding in the fall semester 2007. Membership on the Council comprises broad representation from across the campus, but does not include specific representation from the Graduate School. Input to this Council from the Graduate School and graduate faculty will be important to ensure that the goals of the Graduate School are recognized and included as the priorities of Wake Forest are established.

Active graduate programs in the Graduate School of Arts and Sciences for 2005-06 are listed in the Appendix, Table 1. The graduate program in Clinical Epidemiology and Health Services Research changed its name to Health Sciences Research for 2005-06 after a review of the program during the 2004-05 year.

Graduate School and University Committees

The **Graduate Council** met seven times during the academic year (September 19, October 17, November 21, 2005; January 23, February 20, March 20 and April 17, 2006). Minutes of these meetings are archived on the Graduate School website: www.wfu.edu/graduate. The meetings alternated between locations on the Reynolda and Bowman Gray campuses. Dr. Will Fleeson (Psychology) was elected secretary to the Council and Graduate Faculty for 2005-06. The Credentials, Curriculum and Policy committees of the Council (memberships listed in the Appendix) reviewed nominations to the graduate faculty, course and program changes and policy issues respectively. The Credentials Committee also served as the Nominations Committee, proposing candidates for election to the Council, for a Graduate School representative to the University Senate and as Faculty Grievance Liaison Persons. Elections were held in April 2006.

The proposed Honor Code for graduate students was again a topic for extensive discussion during the year, as it had been for the past three years. Dr. Brian Tague (Biology) enthusiastically chaired the Policy Committee and presented the Code to the Council for discussion. The Code was approved by the Council at its October meeting and sent to the faculty for information prior to its presentation at the fall Graduate Faculty meeting.

At the request of Dean Bill Leonard of the School of Divinity, the Council discussed the inclusion of Divinity students in the Graduate School of Arts and Sciences Honor Code. Meetings between Dean Leonard, Dr. Tague and Dean Melson took place at the end of the year. The Council will continue to discuss Dean Leonard's request in 2006-07.

At the February meeting a proposal for the initiation of a Master of Arts degree program in bioethics was presented on behalf of the Task Force on Bioethics by Dr. Sally Shumaker (Public Health Sciences) and Dr. Michael Hyde (Communication). Following lively discussions and further consideration at the March meeting, the proposal was approved by the Council and will be sent to the faculty for consideration.

The Council discussed plans for the Hooding and Awards Ceremony and approved the selection of Dr. Debra Stewart, President of the Council of Graduate Schools, as the distinguished speaker. Plans for the Graduate School Forum and Graduate Student Research Day were presented and discussed. The Council also approved the selection of the Outstanding Doctoral and Outstanding Master's student award winners.

The Council approved a program name change from Molecular Genetics to Molecular Genetics and Genomics, effective with the 2006-07 year.

The Graduate Student Association presented a "*Report on Health Insurance for Graduate Students on the Reynolda Campus of Wake Forest University*". Although the Council supported the requests presented in the students' report, budget constraints will not allow the associated costs to be covered in the 2006-07 budget. Further discussion should take place in the coming year. More details are presented in the GSA section of this report.

The **Graduate Faculty** held its fall meeting on November 28, 2005 and its spring meeting on April 24, 2006. Both meetings were held in Winston Hall on the Reynolda campus. Minutes of these meetings are archived on the Graduate School web site: www.wfu.edu/graduate. Reports on the activities of the Graduate Council were given by the Secretary, Dr. Fleeson. Reports on University Senate meetings were given by Dr. Suzi Torti (Biochemistry) in the fall and Dr. Greg Shelness (Pathology, Comparative Medicine) in the spring. Course changes approved by the Council were approved by the faculty and several new members of the Graduate Faculty were announced at each meeting.

At the fall meeting, the Graduate School Honor Code was presented for discussion by Dr. Tague and Dean Melson. Following the discussion, the faculty agreed to hold an e-mail vote on adoption of the Code. The faculty adopted the Code by a vote of 122 for and 6 against. The Code will be effective August 1, 2006 for the 2006-07 student matriculants.

The final version of the Honor Code was posted on the Graduate School web site in June 2006. Also at the fall meeting, Dean Melson reported on "*The Status of the Graduate School*" and provided information on student recruitment, enrollment, graduation and financial aid. Initiatives for 2005-06, including the need for increased financial support for the Graduate School on both campuses, were discussed.

At the spring meeting, Drs. Shumaker and Hyde presented the proposed Master of Arts degree program in bioethics and responded to questions from the faculty. The motion to approve the degree program was passed unanimously by the faculty. It is proposed to initiate the program for the 2007-08 year. The coming year will be used to develop recruitment strategies and to identify financial resources, including partial tuition scholarships from both campuses.

The results of the faculty elections were announced at the spring meeting. Dr. Douglas Case (Public Health Sciences) was elected to a three-year term (2006-2009) on the Graduate Council, Drs. Mark Miller (Cancer Biology), Pat Nixon (Health and Exercise Science), and Brian Tague (Biology) were re-elected to their second three-year terms. Dr. Michael Robbins (Radiation Biology) was elected to represent the Graduate School on the University Senate for 2006-2010 and Drs. Keith Bonin (Physics) and Leslie Poole (Biochemistry) were elected to serve three-year terms (2006-09) as Graduate School representatives to the Faculty Grievance Committee.

There were 525 members of the Graduate Faculty at the start of the 2005-06 year. This number compares with 507 members at the start of the 2004-05 year.

The **Biomedical Sciences Graduate Committee** met four times during the year. The August 29, 2005 meeting was held in the newly-renovated lecture room Hanes 1064. Dr. Larry Daniel (Biochemistry) presented the final report and recommendations from the Biomedical Sciences Review Committee that he had chaired during the 2004-05 year. Also, Associate Dean Solano presented a summary of the final report from the Task Force on Recruiting that she had chaired during the 2004-05 year. Recommendations from the Committee and the Task Force are discussed in more detail later in this Annual Report. Dr. Nancy Jones (Pathology) and Dr. Dwayne Godwin (Neurobiology and Anatomy) discussed the Ethics and the Professional Development courses for the 2005-06 year. Plans for Career Day to be held on October 7 were presented.

At the November 21 meeting, Dr. Michael Tytell (Neurobiology and Anatomy), Chair of the Graduate Internships Committee, presented an update on the committee's activities and plans for the 2005-06 year, which included redesign of the application and approval procedures and attempts to recruit more companies for student internship opportunities. The possible structure of an Interdisciplinary Graduate Program in Biomedical Sciences was presented by Dean Melson and discussed at length. Input from the program directors was requested before additional discussion at a later date. Susan Pierce discussed progress with the implementation of the on-line application process and course registration.

At the February 1, 2006 meeting, Dean Melson discussed the projected budget for 2006-07 and especially its effect on graduate student stipends. Since the budget will not

include an increase in the stipend line, the possibility of increasing stipend levels at the expense of the number of available stipends was discussed. After a lengthy discussion of the pros and cons of this approach, Dean Melson decided that the stipend level for the 2006-07 year would remain at \$20,772, the level that has been in place for the past two years. However, the stipend level is falling behind those offered by our competitors for students, which now averages \$23,000 annually. This issue must be addressed again in the coming year, with every effort being made to increase the support for student stipends in the 2007-08 budget so that WFU may remain competitive for high quality students. The possibility of tracks for the proposed Interdisciplinary Graduate Program was discussed. These tracks would be: 1. Molecular Biology; 2. Neurosciences; 3. Biomedical Engineering and 4. Health Sciences Research. A lively discussion followed this presentation; however, no final decision on the structure of the proposed interdisciplinary program was reached.

At the fourth meeting on April 12, Dr. Charles Eldridge (Physiology and Pharmacology) and co-Chair with Dr. Nancy Jones of the Advisory Committee on Ethics (ACE) presented the proposed graduate courses *Scientific Professionalism: Scientific Integrity* and *Scientific Professionalism: Bioethics and Social Responsibility*, which have been developed by the committee with support from a grant from the National Science Foundation. The courses were approved by the Graduate Council during June 2006 and will be presented for consideration by the Graduate Faculty at its fall 2006 meeting. They will be offered over a two-year period starting with the 2006-07 year. These courses will replace the current bioethics program that has been offered for the past two years. All entering graduate students (excluding the MS students in Health Sciences Research) in the Biomedical Sciences graduate program will be required to attend the new courses. Expansion of the program to include graduate students in science programs on the Reynolda campus will be implemented in the 2007-08 year.

The **Graduate Program Directors Committee** (Reynolda campus) met on September 13, 2005. Dr. Solano again presented the findings and recommendations of the Task Force on Recruiting. Debbie Deheck discussed progress with the implementation of the Banner administrative computer system, especially the on-line registration process for graduate students. Upcoming events and Graduate School deadlines were also presented and discussed.

The **Graduate Internships Committee** continued to be chaired by Dr. Michael Tytell (Neurobiology and Anatomy). Several changes to the committee membership were made this year; the current composition is listed in the Appendix. The committee continued to refine the application procedure for both students and host organizations. Two completed applications, with identified hosts, were considered by the committee for internships in the summer of 2006. Both received approval.

The **Task Force on Bioethics** continued to meet on a regular basis throughout the year. Dr. Sally Shumaker (Public Health Sciences and Office of Research) and Dean Melson continued to co-chair the Task Force. The first part of the year focused on the development of a graduate course in bioethics. This course, entitled "*Changing World, Challenging Decisions: The History of Bioethics*" was offered in the fall 2005 semester through the Master of Arts in Liberal Studies (MALS) program. Dr. Melson served as

the Course Director, with Dr. Michael Hyde (Communication) and Dr. Hannah Hardgrave (Philosophy) serving as the Discussion Leaders. Enrollment was limited to 15 students, who were most enthusiastic in their response to the course. In addition to several members of the Task Force and faculty members from the Reynolda and Bowman Gray campuses who served as the faculty for the course, additional presenters were Nancy King, J.D., University of North Carolina Chapel Hill; Dr. Terrence McConnell, University of North Carolina Greensboro and Dr. Rosemarie Tong, University of North Carolina Charlotte. The course was supported in part by funding through a grant from the Fund for Ethics and Leadership (the Fund). A planned course for the spring semester 2006 did not take place due to the lack of available faculty with expertise in the proposed area of the course (due to academic leaves). The administrator of the Fund (Associate Provost Sam Gladding) generously approved a no-cost extension of the grant through December 31, 2006, so that support will be available for the proposed second bioethics course "*What's up Doc?:The Ethics of Health Communication*" that will be taught by Dr. Hyde and Dr. Steven Giles (Communication) in fall 2006.

It should be noted that a student in the MALS program (Ms. Kathleen Donofrio) who participated in the fall 2005 course completed her required thesis on a topic in bioethics under the guidance of Dr. Michael Hyde. Two other members of the Task Force (Drs. Kahl and Melson) also served on her thesis committee. This is the first master's thesis to result from the efforts of the Task Force in promoting graduate education in bioethics.

The Task Force spent a considerable amount of time preparing the proposal for a Master of Arts degree program in bioethics for presentation to the Graduate Council and Graduate Faculty. As noted elsewhere in this report, the proposal was approved by both bodies. The program is proposed to be offered for the first time in fall 2007, if the needed financial aid (several half-tuition scholarships) is included in the FY 08 budgets of the Graduate School on both the Reynolda and Bowman Gray campuses. Several students who attended the fall 2005 course have expressed interest in enrolling in the degree program when it is available.

The Z. Smith Reynolds (ZSR) library (Reynolda campus) received a grant from the Fund for Ethics and Leadership for the purchase of books and materials to support bioethics. The Task Force worked with Ms. Jill Carraway, Collection Management Librarian of the ZSR library, in selecting materials. Several academic departments and library liaisons assisted the Collection Management in the selections. Books, films and some electronic resources in all aspects of bioethics were purchased. The addition of these materials will support the bioethics interests of the faculty and students and especially those involved in the MA program in bioethics. The Task Force and the Graduate School appreciate the efforts of Ms. Carraway in obtaining these materials and the financial support of the Fund.

The Task Force collaborated with staff from the Office of Development and Alumni Affairs (WFU Medical Center) in seeking external funds for the support of the proposed WFU Center for Bioethics. Mr. Steve McCollum was added as a member of the Task Force in the latter part of the year. Mr. Norman Potter (Vice President for Development and Alumni Affairs) also met with the Task Force to discuss approaches to potential donors for the support of the Center and bioethics initiatives. It should be recognized

here that Dr. Wallace Wu, former medical director of WFU Physicians, and his wife Mona pledged \$1.5 million to establish a chair in Internal Medicine which will be known as the Wallace and Mona Wu Chair in Biomedical Ethics when fully funded. This commitment is a major boost to the efforts to raise funds for the support of bioethics at Wake Forest University.

Drs. Shumaker and Melson met with President Nathan Hatch, Provost William Gordon and Vice President for Health Affairs William Applegate on June 29th and presented an update on activities of the Task Force and its proposals to establish the WFU Center for Bioethics and the MA degree program in bioethics. Both the Center and the degree program will require significant commitments of resources from the University; the Task Force is optimistic that such support will be forthcoming in the near future to allow these initiatives to move ahead as soon as possible.

Finally, the School of Medicine announced that Nancy King, J.D. would be joining the faculty of the Department of Social Sciences and Health Policy in the Division of Public Health Sciences as Professor of Bioethics and Research Ethics in January 2007. Ms. King, who was one of the external presenters in the fall 2005 bioethics course, is currently Professor of Social Medicine in the School of Medicine at UNC Chapel Hill. The addition of Ms. King, a nationally and internationally recognized expert in bioethics, will significantly raise the awareness of, and expertise in, the field of bioethics at WFU.

The final report from the **Task Force on Recruiting** that was chaired by Associate Dean Solano during the 2004-05 year was submitted in September 2005. Several observations and recommendations were made. Recruiting is a competitive endeavor requiring a proactive approach, with the Graduate School and the departments and programs integrating their efforts. This will require everyone involved to be more efficient in their recruiting practices. In particular the Graduate School and all departmental and program web sites need to be student-oriented, informative, up-to-date, attractive and easy to navigate. All web pages should be evaluated in light of their availability through appropriate, graduate student oriented, search engines. For print-based strategies, the current Graduate School view book needs to be completely reworked (it has been in use for four years with only minor revisions having taken place during that time). Individual program and minority interest sheets should be developed for distribution to potential students at graduate student recruitment fairs etc. Personal contacts should be used more effectively and both current and new “pipelines” evaluated and developed. The use of students, faculty members and alumni as recruiters should be increased. The on-line application material should be rewritten as a recruiting tool, with re-evaluation of the application fee on a periodic basis. (The fee was increased from \$25 to \$45 for domestic and \$55 for international applicants in 2005-06.)

As a result of the recommendations, information was provided to all departmental and program directors and recruiters on web design and implementation. The Graduate School took a critical look at its web pages and implemented changes where needed. The on-line application was redesigned during the year in attempts to make it more “user-friendly.” The Graduate School thanks Mr. Kevin Brewer (Academic Computing at the School of Medicine) and his staff for their help in implementing the changes to the process. Dr. Solano and Graduate School staff members from both campuses were

involved in several discussions with personnel from Academic Computing (led by Kevin Brewer) and Information Systems on the Reynolda campus (led by Associate VP Jay Dominick) in attempts to have the new application process in place for the coming year. The new application process will be introduced during the summer of 2006 to be used by applicants for the 2007-08 year. An applicant will be able to store, revise and submit his or her application at a later time if needed. (The lack of this flexibility was seen as a major deficiency in the current application process.) The application material will be downloaded directly into the PeopleSoft database for Biomedical Sciences applicants. For applicants to the Reynolda campus programs, a similar download capability has not been established due to difficulties with the Banner administrative computer system; it is hope that these difficulties will be overcome in the very near future.

Basic science chairs Drs. Douglas Lyles (Biochemistry) and Steven Mizel (Microbiology and Immunology) expressed concerns regarding the format of web pages at the Medical Center and the plan for the management of these pages to be assumed by the Office of Public Relations and Marketing. Dr. William Applegate (Senior Vice President, WFUHS and Dean, School of Medicine) created an **Ad-hoc Committee to Review the Basic Science Web Presence at WFUSM** that was to make recommendations to him by the end of the year. The committee was chaired by Dr. Lyles and included Drs. Melson and Solano from the Graduate School and Dr. John Boehme, Kevin Brewer, Chris Nelson and Will Safrit from Academic Computing. The committee met several times during the year with the purpose of recommending a plan for a unified web presence for basic science departments and graduate programs. The committee considered several “template” designs for the web pages with the content being managed by the departments or programs. A final report from the committee was made to Dean Applegate and Mr. Douglas Edgeton (Senior Vice President for Finance and Administration, WFUHS) in March 2006.

The **Board of Visitors of the College and Graduate School of Arts and Sciences** (BOV) held fall (September 15-16, 2005) and spring (March 2-3, 2006) meetings on the Reynolda campus. The members of the BOV and the Graduate School Advisory Committee (GSAC) are listed in the Appendix. The fall meeting focused on the faculty and how WFU may hire and develop the teacher-scholars that are needed. President Hatch discussed “*Faculty Excellence – The Vision for Wake Forest University*”. Dean Deborah Best (College) and Dean Melson presented “snapshots” of the undergraduate and graduate faculty respectively and a panel of several WFU faculty members with representation from all academic ranks discussed their roles, responsibilities and tensions as full-time faculty. The BOV committees discussed several questions concerning the goals and operating assumptions regarding additions to the faculty and how *Pro Humanitate* affects/influences the hiring, nurturing and teaching processes. Committee reports were presented to the whole Board at the end of the meeting.

The spring meeting continued the discussion concerning the hiring and retention of good faculty at WFU. BOV member Dr. Jane Crosthwaite ('59 BA) presented a report on the faculty panel discussion from the September 2005 meeting; several recommendations were made and additional questions were raised in the report. Other presentations and discussions focused on the possibility of a “Washington House” for Wake Forest, the role and impact of faculty recognition through awards and a summary of the Capital

Campaign “Honoring the Promise” as it approached its conclusion. The BOV formed two groups to further discuss the issues raised in the presentations; each reported to the full Board at the conclusion of the meeting. The BOV discussions resulted in the presentation of a white paper “*Recommendations to the President and Board of Trustees*”. First, the BOV strongly recommended “*that Wake Forest immediately initiate a Washington program in collaboration with other universities wherein housing and teachers are shared, much like many of our international programs*”. Also “*the long-term goal of a permanent office in Washington and perhaps a permanent facility either owned or leased that can accommodate WFU faculty and students*” was recommended. Second, the Board applauded the initiative of President Hatch in establishing the Presidential Trust for Faculty Excellence and recommended “*that support of the faculty be given highest priority in the strategic plans Wake Forest adopts for the near term*”. The Board toured the Z. Smith Reynolds Library during the March meeting and “*was struck that all of the rooms reserved for group and collaborative study were filled in the early afternoon and that reservations are required for students to have access to these rooms*”. The BOV recommended “*a space utilization study be conducted to identify those rooms and places that, after some redesign and configuration, may be available to students for collaborative study*”.

At the February 2, 2006 meeting of the **Board of Trustees**, Dean Melson coordinated a session of the Graduate and Professional Committee of the Board. Following a brief overview of the Graduate School and its programs, enrollment and student profile and degrees awarded, presentations were made by Dr. Rick Matthews (Chair) and Dr. Keith Bonin (Graduate Program Director) of the Department of Physics, Dr. Randall Rogan (Chair) and Dr. Ananda Mitra (Graduate Program Director) of the Department of Communication and Dr. Douglas Lyles (Chair) and Dr. Suzi Torti (Graduate Program Director) of the Department of Biochemistry. The presentations led to a lively discussion between the presenters and members of the Committee, with emphasis on the diverse forms of research conducted by the faculty and students in those departments. All agreed that the session was extremely informative and helpful in understanding the graduate education program at Wake Forest.

Dean Melson also participated in the **WFUHS Academic Committee** (of the Board of Trustees) conference call on January 10, 2006. He presented information on the BMS graduate program, including student recruitment and quality, demographics of enrolled students and the performance of students in the combined MD/PhD program. Dean Melson responded to several questions from members of the committee.

Departmental and Program Reviews

Review of the **Department of Chemistry** took place during the year. Dr. Brian Tague (Biology) represented the Graduate Council on the Internal Review Committee. The department had excellent and constructive reports from both the external reviewers (Dr. Linda McGown, Rensselaer Polytechnic Institute and Dr. John Gupton, University of Richmond) and the internal committee. The latter committee commented that “*Chemistry is an exemplary department that is performing at a high level and with fidelity to Wake Forest’s mission. Yet it has some pressing needs, especially for adequate space and facilities.*” Regarding the graduate program, the committee commented that

“The University must increase its support for graduate programs. Without adequate stipends or health insurance for graduate students, the department will not be able to attract the quality or numbers of students required to maintain its program and move it forward.” The Graduate School strongly endorses the comments and recommendations of the committee. The provision of increased space and up-to-date facilities to accommodate at least forty graduate students should be a high priority of the administration. Graduate student stipends have been increased over the past two years; however, the issue of providing paid health insurance premiums has not been resolved due to budget constraints. Graduate student financial aid must be addressed again in the coming year, with the highest budgetary priority of the Graduate School being the provision of competitive stipends and paid health insurance premiums for all departments that offer the Ph.D. degree on the Reynolda campus (Biology, Chemistry and Physics).

The **Department of Psychology** was also reviewed during the year. Dr. Pat Nixon (Health and Exercise Science) represented the Graduate Council on the Internal Review Committee. Both the Internal Committee and External Committee (Dr. Randall W. Engle, Georgia Institute of Technology and Dr. Deborah Richardson, Augusta State University) reports were constructive and offered helpful comments and recommendations. The Internal Committee stated that *“The Wake Forest University Department of Psychology is a very strong department that deserves praise and encouragement”*. The committee also commented that *“One significant issue currently confronting the Department is whether or not it wants to establish a Ph.D. granting program, in addition to its highly successful and respected M.A. program.”* On this issue the committee reported *“Faculty commentary in the self-study document along with the comments of the external reviewers, note the existing level of ambivalence among the faculty about the desirability of moving in this direction.”* It was also commented that *“...the current level of external funding is simply inadequate to support a Ph.D. program”*.

The Internal Committee recommended that *“The Department of Psychology should conduct a strategic planning session to discuss its future direction such that its trajectory for the next several years is the consequence of deliberate and purposive thought and not one of default”*. The Graduate School endorses the above comments and recommendations. A Ph.D. program was approved several years ago by the Graduate Faculty; however, the program was not initiated. Approximately seven years ago, the issue was again discussed and again it was decided not to move ahead with the Ph.D. program. In light of the budget constraints currently in place on the Reynolda campus, it is not feasible to establish the program at this time. If and when additional financial resources are available, the establishment of a Ph.D. program in Psychology should be a high priority of the Graduate School and the administration.

The final report from the **Biomedical Sciences Graduate Program Review Committee** was submitted at the start of the year. The committee was very ably chaired by Dr. Larry Daniel (Biochemistry). Dr. Daniel also presented the findings and recommendations of the committee to the graduate program directors at a fall meeting of the Biomedical Sciences Committee. The committee noted that the Biomedical Sciences (BMS) graduate program had grown steadily since the past review in 1998, with the increase being driven by an increase in the number of applicants without a decrease in the fraction of applicants

offered admission. Also, the committee noted that the number of students with external support increased each year during the review period. This fact alone has led to some of the noted increase in student numbers in the program, since it allowed institutional funds to be used for the admission of more first-year students. It was noted that the Diversity Initiative, begun by the Graduate School in 1999 to increase the diversity and number of underrepresented minority students in the graduate student body, was particularly successful for the BMS program, with a marked increase in the number of African-American students.

The organization of the BMS graduate program was a major topic of discussion among the committee and the external reviewers, Dr. Sharon Milgram (UNC-Chapel Hill) and Dr. James Patton (Vanderbilt University). Several potential structures were discussed. The first structure involved maintaining a format with each program recruiting students and developing a curriculum for these students. This is the current model, although many students take the common first-year classes. The second structure involved developing a common first-year curriculum for all entering students that will allow for them to choose among existing programs which they will enter in the second year. Recruiting would be conducted by a centralized entity to be developed. The third structure would replace the current graduate programs with a common (integrated) graduate program. The committee recommended *“That a planning process be put in place immediately to begin the transition of replacing all training of Ph.D. students in the biomedical sciences from departments to interdisciplinary programs”*.

Dean Melson proposed the development of an Interdisciplinary Graduate Program (IGP) that would include four tracks, with each student following one track. These tracks would be: 1. Molecular Biology; 2. Neurosciences; 3. Biomedical Engineering and 4. Health Sciences Research. Following extensive discussions among the graduate program directors and written input from several faculty members, a final decision on the structure of the proposed interdisciplinary program was not reached. This discussion should continue during the coming year with a planning committee being established.

The **Southern Association of Colleges and Schools (SACS)** accreditation team visited Wake Forest in April 2006. The University was recommended for re-accreditation with no individual or programmatic changes suggested by the team. This result was a great compliment to all faculty and administrators who had worked on the re-accreditation process. The Graduate School particularly expresses its appreciation to Associate Dean Solano who coordinated the Graduate School’s response for the requested data and for preparation of the text for the report from the Graduate School.

Combined/Collaborative Programs

The Graduate School currently has two combined programs with other schools at WFU. The combined **MD/PhD program** is offered in collaboration with the School of Medicine. Dr. David Bass (Molecular Medicine) stepped down as program director after serving in this capacity since the re-introduction of the combined program in 1996. Dr. Charles McCall (Molecular Medicine) became the new program director, with Dr. Paul Laurienti (Radiologic Sciences) serving as the assistant director. This year the program had fourteen enrolled students. Eight were in PhD programs; two had completed their

PhD programs and were in the third or fourth years of the MD program and four students were in either the first or second years of the MD program. Two students, Chris Lack (Physiology and Pharmacology) and Kris Huang (Biomedical Engineering) graduated with the PhD degree. One student, Isabel Newton completed the MD degree. To date, four students have graduated from the combined MD/PhD program. This program enrolls highly qualified and dedicated students; it should be expanded from its current low numbers if it is to be competitive at the national level. Additional scholarships should be offered (currently only two “full-ride” scholarships are offered per year).

The combined **PhD/MBA program** is offered with the Babcock Graduate School of Management. Dr. Dwayne Godwin (Neurobiology and Anatomy) and Dr. Ken Middaugh (Babcock) serve as program directors. Five students have graduated from the combined program to date. However, there are currently no students enrolled in the program. Discussions between Dean Melson and the program directors stressed the need for additional recruiting efforts to be made and to ensure that students both at WFU and those who are considering WFU for their graduate education are aware of the opportunities offered by this program.

The Graduate School is an integral part of the **Virginia Tech-Wake Forest University School of Biomedical Engineering and Sciences (SBES)**. Students are enrolled in the school and assigned a primary campus (Virginia Tech or Wake Forest University) although they take courses and have faculty advisors from both campuses. The enrollment in SBES continues to increase and the associated research collaborations continue to flourish. The Ph.D. program in Biomedical Engineering offered at WFU through SBES is rapidly becoming one of the strongest programs of the Graduate School.

The **Master of Science in Accountancy (MSA)** is offered by the Calloway School of Business and Accountancy, with the degree being awarded through the Graduate School of Arts and Sciences. The quality of students in this program is very high, with the graduates consistently scoring in the first or second place nationally on the CPA exams taken after completion of the program. The MSA degree program has been offered on a 3/2 basis to date; however, starting with the 2006-07 year, it will be offered on a 4/1 basis.

The **Track in Structural and Computational Biophysics (SCB)** continued to recruit students from the graduate programs in Biochemistry, Chemistry, Computer Science and Physics. The SCB Advisory Committee met twice during the year and discussed ways of making more students aware of the opportunities for graduate study in the track. It is projected that two students will receive the Certificate in SCB in May 2007 with one additional student on track to receive the Certificate in December 2007. The possibility for students in Biology and Mathematics to be part of the track was also discussed.

Several meetings took place during the year between representatives of the Graduate School, the School of Medicine and the Babcock Graduate School of Management to consider the possibility of combined **MBA/Master's degree** programs. The master's degree program under initial consideration was the MS in Health Sciences Research. Following extensive discussions, it was agreed that there was little overlap between students who were interested in each individual program and thus this combination was not pursued further. However, the possibility for MBA students to enroll in life, physical

or health science courses in the Graduate School and for students in Graduate School programs to enroll in selected MBA courses is still under consideration. If there is interest in such combinations, the student would earn a certificate in the area “outside” the primary degree program. Discussion on this possible collaboration should continue during the coming year.

A proposal to offer a combined **MDiv/MA in Counseling** was submitted to the Graduate School and the School of Divinity for consideration. The proposal was received with enthusiasm by the deans of both schools. Following review of the proposal and comments submitted by both schools, revisions to the proposal were made. However, the revised proposal was submitted too late for consideration during the 2005-06 year. The proposal should be considered by the School of Divinity and the Graduate Council and Graduate Faculty of the Graduate School during the 2006-07 year.

Graduate School and Graduate Program Events

The seventh annual **Hooding and Awards Ceremony for the Graduate School of Arts and Sciences** for graduates of the 2005-06 year was held on Saturday May 13, 2006 in Wait Chapel on the Reynolda campus. The faculty marshals, who were selected from the membership of the Graduate Council were: Drs. Brian Tague (Biology) and Christa Colyer (Chemistry). Student marshals, selected by the Graduate Student Association, were: Heather Alger (Biochemistry), Christopher Doern (Microbiology and Immunology), Anna Misor (Molecular Medicine) Lindsey Oliver (Chemistry), Virginia Orr (Counseling), Meredith Parkinson (Chemistry) and Sarah Ringler (Neurobiology and Anatomy). Dr. Charles A. Kimball (Religion) gave the invocation and benediction and Ms. Faye Reece (Psychology) provided the processional and recessional organ music. The distinguished invited speaker was Dr. Debra Stewart, President of the Council of Graduate Schools in Washington, D.C. Her presentation “*Progress by Degrees: The Public View of a Private Good*” was well received by the estimated audience of 1500 graduates, family, friends and faculty. As in previous years, Ph.D. recipients were hooded by their advisors or a dissertation committee member. Dr. Jack Wilkerson, Dean of the Wayne Calloway School of Business and Accountancy hooded the Master of Science in Accountancy (MSA) graduates with Dr. Terry Baker, Graduate Program Director for the MSA program, presenting the graduates. Associate Dean Solano presented all other master’s degree recipients, with Dr. Kenneth Berenhaut (Mathematics) hooding the Master of Arts graduates, Dr. David Goff Jr. (Public Health Sciences) the Master of Science graduates, Dr. Leah McCoy (Education) the Master of Arts in Education graduates and master teacher candidates, Dr. Peter Kairoff (Music) the Master of Arts in Liberal Studies graduates and Dr. Joseph Milner (Education) the Visiting International Faculty candidates.

The Outstanding Doctoral Student Award was presented to Dr. Georgia Alexander (Neuroscience), advisor Dr. Dwayne Godwin (Neurobiology and Anatomy). The Outstanding Master’s Student Award was presented to John Foley (Mathematics), advisor Dr. Kenneth Berenhaut. The Graduate Student Association (GSA) Faculty Excellence Award was presented to Dr. Douglas Lyles (Biochemistry) by GSA representatives Carla Lema-Tome (Neurobiology and Anatomy) and Blythe Ashcraft (Chemistry). Graduating students from the 2005-06 year who received major awards

during their tenure at WFU were also recognized. The retirement of Dean Melson was recognized by a presentation from the Graduate Student Association and by a resolution from Provost William Gordon and Dean William Applegate. Dr. Applegate also announced the formation of the Gordon A. Melson Outstanding Student Award Fund and that starting with this year the student awards would be named after Dean Melson. A reception following the ceremony was held in the Green Room of Reynolda Hall. A dinner honoring the distinguished speaker, award recipients, former winners of the GSA Faculty Excellence Award, former deans of the Graduate School of Arts and Sciences Drs. Henry Stroupe, Nancy Cotton and Robert Shorter, staff members from the offices of the Graduate School and also attended by many family members of all those honored was held at Noble's Grille in Winston-Salem.

At the **WFU Commencement Ceremony** on May 15, 2006, two hundred and thirty-eight graduates of the 2005-06 year were recognized or awarded their degrees. This number was the highest in one year. Forty-one students received Ph.D. degrees and one hundred and ninety-seven received master's degrees. A citation recognizing Dean Melson's retirement was read by Provost Gordon.

The ninth annual **Graduate School Forum** "Focusing on the Future" was held on January 27th from 11:30 am to 1:30 pm in the Benson Center on the Reynolda campus. The format of the Forum was similar to that of the past two years, with facilitators presenting and interacting with students on a variety of professional issues over lunch. Ninety-three students from many different graduate programs on both campuses attended. Each student was assigned two topics, based on their stated preferences. The facilitators were from local colleges and universities (Salem College, UNC-Greensboro, UNC-Chapel Hill, Wake Forest, and the Winston-Salem/Forsyth County school system), local government offices and companies in the area (R.J. Reynolds, Applied HR Solutions, Gallo and Associates, Trans Tech Pharma and Wachovia). Topics included: Doing Well in the Job Interview; Establishing and Evaluating Goals; Internship Opportunities in Businesses and Other Organizations, Managing Your Money; The Postdoctoral Experience; Time Management: Getting Everything Done; Working in Biotechnology; Working in Business; Working in Government; Working in the Public Schools; Working in a Liberal Arts College and Widening Your Professional Network. The event provides an educational and enjoyable opportunity for graduate students to interact with a variety of professionals from many fields and reflects a goal of the Graduate School to assist students in their professional development. Thanks go to all the facilitators, GSA members, Dr. Solano and Wanda Duncan and other staff from the Graduate School for ensuring the successful outcome of this year's Forum.

The sixth annual **Graduate Student Research Day** was held on March 24, 2006 in the Benson Student Center on the Reynolda campus. More than seventy students represented eighteen graduate programs and one interdisciplinary area (bioinformatics) from both campuses. Targacept, Inc. served as a sponsor for the event and Ms. Debra Perret of the company spoke to the attendees about the importance of their research and discussed the opportunities that are available for post-doctoral research with industrial companies.

Each year, Research Day provides the opportunity for students from the many graduate programs of the Graduate School to present their research to fellow students and faculty

members. The event was very effectively organized by Dr. Solano and the staff of the Graduate School with assistance from members of the GSA. The GSA also hosted a reception in Shorty's after the event that was well attended by students and faculty.

The eleventh annual **Department of Education Research Forum** was held on the afternoon of December 7, 2005 in the Benson Center. Many students from the several tracks of the graduate program presented their research through posters, short presentations and focused discussions. The Forum provides an opportunity for attendees to learn about a wide range of current educational topics and engage in conversations with the students and faculty about their work.

The fifth annual **Virginia Tech-Wake Forest University School of Biomedical Engineering and Sciences (SBES) Graduate Student Research Symposium** was held on May 11, 2006 in the J. Paul Sticht Center of the WFU Baptist Medical Center. SBES students displayed twenty-eight posters and provided sixteen oral presentations. Eighty-five students, faculty, staff and guests attended the symposium, making it a huge success. The extensive research collaborations and quality of the students in the SBES attest to the hard work and dedication of faculty and administrators at both Virginia Tech and Wake Forest University in developing the school over the past few years.

The twelfth annual **Summer Research Opportunities Program (SROP) in Biomedical Sciences** sponsored and funded by the Graduate School was held on the Bowman Gray campus in conjunction with the NIH-sponsored **Excellence in Cardiovascular Sciences (EICS) Research Program for Minorities** from June 1 to July 28, 2006. This year a total of twenty-six students from nineteen different institutions participated in the programs. Schools represented include several from North Carolina and neighboring states and those outside the area including Transylvania University in Kentucky, Cornell University in New York, Spelman College in Georgia and the University of Puerto Rico (Myaguez). As in previous years, students from both programs were housed in university-owned houses on the Reynolda campus. Thanks are expressed to Dr. Debra Diz (Hypertension and Vascular Disease Center) for serving as Director of the EICS program and to Drs. Fred Perrino (Biochemistry) and Ann Tallant (Hypertension) who ran the journal clubs for the SROP and EICS programs respectively. Also, appreciation is expressed to the faculty who served as mentors to the students and to the staff of the Graduate School and Hypertension Center. The Research Symposium held on July 28 showcased the projects and research completed by the program participants during the summer. The symposium was followed by a lunch and presentation of certificates of completion to the participants. Both the symposium and lunch were well attended by faculty advisors and family and friends of the participants. The summer research programs provide the participants with exposure to research projects and faculty at the Medical Center and also serve as a source of potential students for the BMS graduate programs.

A Research Symposium presented by the scholars of the **Post-Baccalaureate Research Education (PREP) Program** was held on July 14, 2006. In addition to the research poster session, Augustus Grant, M.D. Professor of Medicine, Duke University School of Medicine spoke on "*Addressing the Challenges of Cardiovascular Medicine in the 21st Century*". The PREP program continues to be very ably led by Dr. Debra Diz and

provides underrepresented minority students with opportunities to conduct research in the biomedical sciences, take graduate-level classes offered through the Graduate School and strengthen their applications to graduate programs, including those to Wake Forest.

The Graduate School continued to sponsor the **visits of several distinguished guests and faculty initiated conferences**. In the area of student professional development, Dr. Jonathan Karp, Associate Professor, Department of Biology and Biopsychology, Rider University spoke on “*The Ph.D. Process – A Student’s Guide to Graduate School and the Sciences*” on September 2, 2005. Also, Dr. Peter J.S. Smith, Director of the BioCurrents Research Center and The Program in Molecular Physiology at the Marine Biological Laboratory in Woods Hole, MA, presented “*Soft Money Research by the Seaside: Freedom, ‘Fishing’ and Fear*” on March 31, 2006. These presentations were co-sponsored with the Department of Neurobiology and Anatomy and were part of the second-semester course “*Introduction to Professional Development in the Biomedical Sciences*” that is required of all first-year graduate students in the BMS program. Other students and postdoctoral fellows also attended several sessions of the course.

The Graduate School co-sponsored the **36th Mid-Atlantic Macromolecular Crystallography Meeting** that was held on June 1-3, 2006 on the Reynolda campus. The Center for Structural Biology at WFU organized the meeting that was attended by WFU students and faculty and representatives from NIH, NCI and NIEHS and pharmaceutical and biosciences companies Merck, Roche Pharmaceuticals, GE Healthcare and GlaxoSmithKline. The meeting was planned to follow the Biotech 2006 Conference that was held in Winston-Salem on May 22-23. Sponsorship of the **7th International Conference on Excitonic Processes in Condensed Matter (EXCON ’06)** by the Publication and Research Fund administered by the Graduate School enabled students, several young researchers from around the world and some invited speakers to participate at EXCON’06. The sponsorship of such conferences is important in allowing WFU graduate students to attend the sessions and activities and interact with leading researchers from around the nation and world. The Publication and Research Fund continued to support the publication and research efforts of Reynolda campus faculty, much of which involved WFU graduate students and postdoctoral fellows.

Student Associations

The **Graduate Student Association (GSA)** was very ably and enthusiastically led this year by co-Presidents Blythe Ashcraft (Chemistry) and Megan Rudock (Molecular Genetics). The co-Presidents participated in the monthly meetings of the Graduate Council and as members of the Policy Committee of the Council, providing the student perspective on many issues, particularly the proposed Honor Code. The GSA also assisted with the Forum, Research Day and the Hooding and Awards Ceremony. A GSA representative made presentations at the new student orientation programs on both campuses and at the introductory session of the PhD interview weekend for prospective BMS students. The GSA selected the winner of the Faculty Excellence Award, Dr. Douglas Lyles (Biochemistry) and the hooders for the MA and MS degree recipients at the Hooding and Awards Ceremony. The Graduate School provides some financial support to the GSA; however, the members were actively involved in their own fund-raising activities for GSA-sponsored events and for a local charity. The GSA sponsored

the 1st Annual WFU Captain's Choice Golf Tournament and a Mardi Gras Gala Graduate Student Formal dance.

The GSA sponsored a survey concerning health insurance for graduate students on the Reynolda campus. (At this time, the Graduate School provides paid health insurance premiums for students in the BMS program, but not for students on the Reynolda campus.) Jason Grigsby (GSA representative in the Department of Physics) presented "*The Status of Health Insurance for Graduate Students on the Reynolda Campus of Wake Forest University for the 2005-2006 School Year*" to the Graduate Council at its January 23, 2006 meeting. The report included the results of the student survey and compared the health coverage provided at other institutions with which WFU competes for students. Following a lively discussion with Council members, Mr. Grigsby was asked to again survey the students in order to obtain an estimate of the number who would take advantage of a program in which WFU paid the premiums if it was offered. At the February 20 meeting of the Council, Jason reported that of the students surveyed, 86% responded that they would take part in such a program if it was offered. It was estimated that at a cost of \$800 per student per year, the cost to the Graduate School would be ~\$76,000. The Graduate Council and Graduate School deans are very supportive of a program to provide paid health insurance for graduate students on the Reynolda campus; however, budgetary limitations did not allow the program to be initiated for the 2006-07 year. This topic should be raised again during the coming year, with every effort being made to include the costs of the program in the FY08 budget. Paid health insurance premiums for graduate students are increasingly being provided by competing institutions, so this issue is very important for WFU as it competes for the best students available. However, the cost of such a program will be in competition with the need to provide increased stipends for students in all programs on the Reynolda campus.

The **Black Graduate Student Association (BGSA)** was very active during the year, with Curtis Henry (Microbiology and Immunology) and Keith Keene (Molecular Medicine) serving as President and Vice President respectively. Presentations on BGSA activities were made at new student orientation sessions and at the BMS interview weekend. The BGSA is also active in the community, sponsoring a drive to provide toys for underprivileged children at Christmas. The members of the BGSA are to be complimented on such activities. The main activity that the BGSA has organized for the past six years viz., the Wake Forest University Graduate and Professional School Forum was again planned, this year for March 25, 2006, with sponsorship and financial commitments from the Graduate School, the Fund for Ethics and Leadership and the WFU Office of Multicultural Affairs. The program included an opening plenary session, two workshop sessions, one with admissions panelists including Dr. Solano from the Graduate School and others from the WFU professional schools and the second featuring student panelists from WFU graduate and professional programs. In addition, a guest panelist forum and a graduate school fair were planned. However, the Forum was cancelled on the day of the event due to lack of student response. The cancellation of the Forum was very disappointing for all involved, especially after the considerable effort expended by the students. However, the change in date from the fall to the spring semester was probably largely to blame for the lack of interest from the students, most of whom had already made their decision where to attend graduate or professional school. The event should be conducted in the fall semester 2006 if possible.

The **MD/PhD Student Association** was led this year by Lan Coffman and Jenn Martelle. The Association assisted with the MD/PhD student interviews held during the fall by serving as hosts to the visiting candidates. There were fourteen students in the program during 2005-06. The Association serves as an excellent support group for the students and for the new MD/PhD program director, Dr. Charles McCall and assistant director Dr. Paul Laurienti. Dr. McCall and several students attended the AAP/ASCI/APSA Joint meeting in Chicago. The Graduate School continues to provide some financial support to the Association for its activities.

The Wake Forest University Postdoctoral Association

Postdoctoral affairs at WFU continued to be administered through the Graduate School by Dean Melson. The Postdoctoral Association (PDA) continued its activities during the year, with monthly meetings and social events. The goal of the Association is to bring together postdoctoral fellows for professional and social activities. Dr. Ellen Palmer (Microbiology and Immunology) continued to serve as the President of the PDA. Four postdoctoral fellows (Drs. Brian Nordskog, Sudarshan Upadhya, Ann Peiffer and Ellen Palmer) participated as discussion leaders for the Ethics program for new BMS graduate students at the beginning of the year and in the Professional Development courses held during the year. The PDA held its first picnic at Miller Park on June 17, 2006. Dr. Palmer completed her postdoctoral training on June 16, with Drs. Toni Garcia-Espinosa (Hypertension and Vascular Disease Center) and Cynthia Van Horn (Biochemistry) assuming the leadership of the PDA for the remainder of the year and for 2006-07. Thanks to Dr. Palmer for her commitment to the PDA from its initiation almost four years ago. Dr. Mohammed Islam represented Wake Forest University at the National Postdoctoral Association (NPA) meeting in Bethesda, MD, April 21-23, 2006.

Dean Melson made a presentation on the “*Growth of Graduate and Postdoctoral Training at WFUSM*” to the Research Advisory Committee (RAC) of the School of Medicine on July 28, 2005. Following the presentation, the RAC established a sub-committee to formulate recommendations regarding postdoctoral fellows, recognizing their critical role in the research enterprise. Dr. Susan Hutson (Biochemistry and Office of Research) was designated as chair of the sub-committee. Drs. Palmer and Garcia-Espinosa represented the postdoctoral fellows on the sub-committee. Dean Melson served as an ex-officio member of the sub-committee. The sub-committee reviewed the recommendations from the Strategy Goal 12 Proposal that were made in 2002 and engaged in extensive discussions during the year. A report from the sub-committee was presented to the RAC on April 27, with the final report being submitted on June 30, 2006. The following recommendations were made: 1. Establish an Office of Postdoctoral Education; 2. Designate a Faculty Leader; 3. Enhance and maintain the PDA website (www2.wfubmc.edu/postdoc) and 4. Establish a Postdoctoral Fellows Advisory Committee. It was stated that “*Approving the recommendations provides significant steps to enhance the quality and quantity of postdoctoral students at WFUSM and these increased efforts will assist in furthering the realization of the institution’s research goals and priorities.*”

Recruiting

The final report and recommendations from the Task Force on Recruiting, submitted by its chair Associate Dean Solano, has been discussed earlier in this document. Implementation of many of the recommendations has also been completed. It is hoped that the improved web sites and application process will have positive effects on the recruitment of students to all graduate programs.

The graduate deans and Graduate School staff members were not involved in attending as many graduate and professional recruiting fairs as in previous years. The effectiveness of these fairs for recruiting students to WFU was questioned in the Task Force report. However, attendance at some local fairs and at major national meetings for underrepresented minorities in science did take place. Beth Whitsett (Administrative Assistant, BMS Admissions) attended recruiting fairs at North Carolina A&T State University (NC A&T), Winston-Salem State University (WSSU) and Wake Forest University. Dr. Solano gave presentations on applying to graduate school to undergraduates at Salem College and WFU. Dean Melson attended the annual meeting of the Society for the Advancement of Chicanos and Native Americans in Science (SACNAS) held in Denver, CO in September 2005 and attended the Annual Biomedical Research Conference for Minority Students (ABRCMS) in Atlanta, GA in November 2005. These two meetings provide the opportunity for WFU to interact with underrepresented minority undergraduate and graduate (master's) students and inform them of the graduate programs at WFU. Several students are contacted each year at these meetings and later do matriculate at WFU. Attendance at these meetings is considered to be an effective means of student recruitment, especially as part of the Diversity Initiative.

The Atlantic Coast Conference (ACC) sponsored the first annual "Meeting of the Minds" symposium at Clemson University from April 24-26, 2006. Dr. Dwayne Godwin (Neurobiology and Anatomy) and Dr. David John (Computer Science) represented WFU. The meeting provided an opportunity for undergraduates from ACC schools to present their research and also meet with representatives from the schools to discuss graduate education opportunities.

The Graduate School continues to maintain partnerships with a variety of schools and organizations. WFU is a member of the Graduate Feeder Scholars Program at Florida A&M University (FAMU) and a member of the Graduate Scholars Program at Tennessee State University (TSU). The latter relationship has been inactive for the past two years due to administrative changes at TSU. Wake Forest and North Carolina Central University (NCCU) participate in the NCCU-WFU Bridge Program, supported by NIH, in which students at NCCU receive their master's degree in a science discipline (biology or chemistry) and then transition into one of the WFU biomedical sciences Ph.D. programs. Dr. Allyson Bennett (Physiology and Pharmacology) serves as the WFU liaison with Dr. Allyn Howlett (NCCU), the Director of the Bridge Program. Dr. Bennett developed a brochure describing the potential research opportunities at WFU for distribution to students at NCCU. WFU and WSSU have several research partnerships in place including participation in the NSF-funded Research Initiative for Minority Institutions (RIMI). WFU is a participant in the Visiting International Faculty (VIF) program through which international high school teachers who are teaching in the U.S.

during the academic year obtain an MAEd degree from WFU after three summers in residence. WFU has liaisons with the North Carolina Louis Stokes Alliance for Minority Participation (NC-LAMP) and the Louisiana LS-LAMP programs. Due to the devastation following Hurricane Katrina in 2005, the collaborative efforts of the past several years with LS-LAMP did not take place. It is hoped that these collaborations will be revived when appropriate. It should be noted that two students from Tulane University attended classes in the BMS program during the fall semester 2005. WFU is a founding member of the Consortium for American Indian Graduate Education. The partnerships and alliances that have been developed during the past several years assist in the recruiting efforts, particularly for underrepresented minority students in graduate programs on both campuses.

The **Biomedical Sciences Career Day** was planned for October 7, 2005. However, it was cancelled due to low student response. Career Day has been held for many years; however, it may be that it is not as effective for recruitment purposes now that most of the information on graduate programs can be found on-line. If the event is not continued, the personal contacts with students and faculty that are made during the day will be lost. Career Day has been a very effective recruiting tool for the BMS programs in the past. It is recommended that Career Day be planned for fall 2006; however, if response is again low, it should not be continued.

The **Biomedical Sciences Ph.D. Interview Weekend** was held on February 16-18, 2006; all BMS programs participated. The Graduate School sponsored a reception and dinner on the evening of February 16, with graduate program directors and recruiters for each program being present. At the opening session on the 17th, Dean Melson offered a welcome and provided an overview of the Graduate School and BMS programs. Welcome comments were also provided by Megan Rudock (Co-Chair, GSA) and Curtis Henry (President, BGSA). Interviews with faculty from each graduate program followed. Interview weekend continues to be an effective means of evaluating applicants and allows them the opportunity to interact with potential students from disciplines other than their own. If the BMS program adopts an interdisciplinary format, the interview weekend would also be important for student recruitment.

Thirty-nine **applications to the MD/PhD program** were reviewed and screened by GPA >3.5 and MCAT >33. A total of four offers, each with full tuition and a \$20,772 stipend, were made; two of these students matriculated in the summer/fall 2006, Kyle Binder (Molecular Genetics and Genomics) and Kristin Dew (Microbiology and Immunology). These are the first MD/PhD students to enter these two graduate programs.

Applications and Enrollment

Tables 2-7 present data for applicants and matriculants to the Reynolda campus (Reynolda) and to the Biomedical Sciences (BMS) programs. While the data are self-explanatory, some observations will be made.

The **numbers of applicants** to programs on both campuses continued to increase. Selectivity increased for both the Reynolda campus and BMS programs (decreased

percentages). The yield increased slightly for Reynolda campus programs, but decreased slightly for the BMS programs compared with last year.

Standardized scores and GPA averages for applicant, accepted and matriculated students for the past three years are shown in Table 6 and for matriculated students since 1994 in Table 7. For students matriculating into the BMS programs, the average GRE combined (verbal plus quantitative) score was the highest in several years; the analytical average score was at the highest level recorded. Average combined scores for all matriculants on both campuses continue to be significantly above the national mean for all takers. The average matriculant GMAT score continued at a high level and the average total MCAT scores for matriculants to the MD/PhD program remained consistent with the high levels achieved for the past several years.

Total Enrollment in fall 2006 reached an all-time high of 759 students. For the Reynolda campus programs the high level of enrollment established during the past several years was maintained whereas for the BMS programs, it reached a record number (Reynolda, 436, BMS; 323). The numbers of degree-seeking students (total 720; Reynolda 416; BMS, 304) were also maintained at high levels, with the BMS enrollment exceeding three-hundred students for the first time. The total number of degree-seeking students includes 365 in PhD programs (Reynolda, 101; BMS, 264), both record numbers, and 355 in master's-only programs (Reynolda, 315; BMS, 40). **For the first time, the number of students enrolled in PhD programs exceeded the number in master's only programs.**

The **degree-seeking student profile** data is presented in Table 9. As in previous years, female students outnumbered males (Reynolda, 57% to 43%; BMS, 56% to 44%). The Diversity Initiative of the Graduate School, which was begun during the 1999-2000 year with the goal of increasing and retaining underrepresented minority students especially in the sciences, continued to be successful. In fall 2006, 10.5% of domestic students (9.4% of total enrollment) on the Reynolda campus were underrepresented minorities. In the BMS programs, underrepresented minority students comprised 21.6% of domestic students (17.5% of total enrollment). International student enrollment was 11.1% of total enrollment on the Reynolda campus and 19.1% in the BMS programs. International students from countries throughout the world seek graduate degrees in many different disciplines from Wake Forest (see Table 10).

In fall 2006 there were fourteen students enrolled in the **MD/PhD program**. Eight are currently in PhD programs, two had completed their PhD programs and were in the third or fourth year of the MD program and four students were in either the first or second years of the MD program. In 2005-06, two students graduated with the PhD degree and one with the MD degree.

Degrees Awarded and Placement

During the year, two hundred and thirty-eight students were awarded a Ph.D. or master's degree through the Graduate School, the highest number of degrees awarded in one year (see Table 11). The total number included forty-one students receiving Ph.D. degrees and one hundred and ninety-seven receiving master's degrees. It is anticipated that the

number of Ph.D. degrees awarded by Wake Forest will reach fifty within the next one to two years as the increased number of enrolled students begin to graduate.

The **time to the Ph.D. degree (TTD)**, defined as the time from matriculation to awarding of the degree is shown in Table 12. For all programs, students complete the Ph.D. degree on average in a little over five years. The TTD continues to be excellent for WFU students when compared with a national average for science graduates of between six and one half to seven years. Students enrolled in master's degree programs on a full-time basis complete their degrees in two years or in the time designated for completion of all requirements (e.g., the MSA and the MAEd MTF and MTA programs).

Eight students completed the MAEd degree through the **Visiting International Fellows (VIF)** program. The fourth class to graduate from this three-summer program included students from Argentina, Australia, Canada, England, Jamaica (3) and Kenya. A ceremony recognizing these students was held on July 7, 2006. Each student received a letter certifying completion of all requirements from Interim Dean Solano. These students were also recognized for the first time at the Graduate School Hooding and Awards Ceremony on May 13, 2006.

Table 13 shows the **post-graduation plans** for students who completed the exit survey given by the Graduate School.

The sixth annual **Ph.D. Career Fair** was held on November 16, 2005 at The Friday Center on the campus of UNC Chapel Hill. Susan Pierce assisted with planning the event together with representatives from the Career Services offices of Duke University, North Carolina State University, UNC Chapel Hill and UNC Greensboro. Ms. Pierce also represented WFU at the Fair. The Fair was attended by students and postdoctoral fellows from all participating institutions. Twenty-eight employers (a record number) were represented.

Financial Support

Tables 14 and 15 show the financial support provided to students in the Reynolda and BMS programs from 1999-2000 to 2005-06. The University continues to be the principal source of support for tuition scholarships and for a significant number of teaching assistantships and graduate fellowships, especially for first-year students. It is essential that Wake Forest continues to offer competitive stipends in each of its programs in order to attract the best available graduate students to WFU.

Stipends on the Reynolda campus for 2005-06 were increased for the PhD programs only by using funds generated through the policy agreed upon last year with the Associate Provost for Research, Dr. Mark Welker in which tuition charges from external grants may be used to increase graduate student stipends. While this is a welcome source of additional funds for the increase of student stipends for the Ph.D. programs, all programs on the Reynolda campus are in desperate need of stipend increases, which must be generated through an increase in the stipend budget line of the Graduate School.

Teaching assistantship stipends for 2006-07 were increased by \$500 per year for the students in Biology, Chemistry, Physics and Mathematics. Dean's Fellowships and

Hearst Assistantships were also increased by \$500. These increases were achieved as a result of the tuition charge fund and as a result of a modest (2%) increase in the stipend budget line of the Graduate School. The provision of paid health insurance premiums by the University for students in the Ph.D. programs must be a high priority for FY08, since it is already known that the premiums will not be paid during the FY07 year for students enrolled in 2006-07.

Stipends for students in the BMS programs in 2005-06 were maintained at an annual level of \$20,772, the NIH/NRSA approved stipend. It is already known that the stipend will remain at \$20,772 for the 2006-07 year, which will mark the second year of no stipend increase. The stipend line of the Graduate School budget needs to be increased in the FY08 budget year to provide an increase in stipend for students in 2007-08. The Graduate School continued to subsidize the student health insurance premium at \$150 per month in spite of increases in the premiums. Additional increases are anticipated in the future and the Graduate School must make every effort to increase its subsidy to keep pace with the increases in premiums.

External support for Reynolda campus students in 2005-06 increased compared with last year to the highest level reported (Table 15).

For the BMS programs, 172 students received support from a variety of external sources during 2005-06. (This number includes 15 supported through Virginia Tech.) This is the highest number of students to receive external support and compares with 94 students in 1999-2000. Also since that time, the number of students supported on WFU faculty research grants has increased from 42 to 93 and on training grants from 42 to 46. The number of students who received individual support (NRSA etc.) increased from 10 to 18. Both the faculty and students are to be congratulated on these increased numbers; they reflect the excellence and reputation of the graduate faculty and graduate students at Wake Forest. The growth in the number of students in the BMS programs has largely been achieved through the increase in external support.

The **William Randolph Hearst Endowed Scholarship for Minority Students** is an important part of the Diversity Initiative of the Graduate School, providing the stipend for an underrepresented minority student seeking a graduate degree on the Reynolda campus. This year, Susan Polanco, a first-year student in the MA program of the Department of Psychology, received an award. The June 30, 2006 market value of the Hearst Scholarship Fund was \$693,326. The Graduate School expresses its appreciation to the Hearst Foundation and especially to Mr. Robert M. Frehse Jr. for the continued support of graduate students at Wake Forest.

Income from the **Salzman-Medica Foundation** again partially supported the travel expenses of graduate students on the Reynolda campus to national or international conferences where they were presenting their research.

The **Graduate School Annual Funds** (one for each campus) received donations from alumni and friends. Both mail and phonathon solicitations were successful for both funds. Ms. Helen Dowling, Assistant Director of Alumni Affairs at WFUHS again assisted the Graduate School in fund-raising efforts for the Bowman Gray (BG) campus

and Emily Cockerham, Assistant Director of The College Fund, assisted with the Reynolda campus fundraising efforts for the Graduate School. For the 2005-06 fiscal year the BG campus Annual Fund received \$10,025 from 93 donors. This year, both the money raised and the number of contributors exceeded previous years' numbers. The ending balance for the Annual Fund was \$21,299.31. For the Reynolda campus Annual Fund, phonathon gifts were \$7,794. The ending balance for the Annual Fund was \$31,193. The Annual Funds continued to fund the **Alumni Student Travel Award Programs** for both campuses and assisted students who presented their research at national and international meetings with the costs of attendance at the meetings. The success of the fund raising efforts has allowed many more students to attend important professional meetings than were able to attend just two years ago.

The **Lucy Robbins Fellowship Award** was created last year by Dr. Michael Robbins (Radiation Oncology) for fourth-year graduate students conducting cancer-related research. The first award was presented to Ms. Lori Hart (Cancer Biology) in the fall of 2005. This award, with a cash prize, will be awarded each year to a student selected by a faculty committee. During the fiscal year, the **Lucy Robbins Fellowship Fund** received \$20,491 in gifts from twenty donors. Since its establishment, the endowed fund has raised a total of \$73,975 in gifts from 45 donors.

The **Gordon A. Melson Outstanding Student Award Fund** that was announced at the Graduate School Hooding and Awards Ceremony on May 13, 2006, had raised \$8,560 in pledges and gifts as of the end of the year. For the first time the student awards presented at the Hooding and Awards Ceremony on May 13, 2006 carried this designation.

Funding for support of the **Richter Scholars Program** on the Reynolda campus is received through an annual gift to the Graduate School by the administrators of the Richter Foundation. The funds allow student recipients to engage in international travel to broaden their experiences. Twelve applications for funding were reviewed by a faculty committee chaired by Associate Dean Solano. Three students received funding. The 2006 Richter Scholars were Ryan Barnard (Computer Science), advisors Drs. Paul Pauca and William Turkett, for travel to Thailand to work on computational linguistics and to conduct volunteer work with children in that country; Susan Batten (English), advisor Dr. Gale Sigal, for travel to St. Peter's College in Oxford, England to participate in a course on Arthurian Legends and conduct research on Arthur's sons in Wales; and Nicole Collins (Communication), advisor Dr. Stephen Giles, for travel to Peru to study doctor-patient interactions with an interest in improving doctor-minority patient interactions in the U.S. In general, students include research activities supported by the awards in their master's theses or doctoral dissertations as well as in conference presentations and professional publications. However, all recipients agree that the international experiences that they receive are the most memorable part of being a Richter Scholar.

The graduate deans appreciate the contributions from the foundations and all alumni and friends of the Graduate School for enabling the travel and awards programs to be so successful. It is hoped that future gifts and contributions will continue to increase and allow the programs described to flourish and expand.

Professional Activities

Dean Melson and Associate Dean Solano continued to be involved in a variety of external professional activities during the year. Dr. Solano attended the annual meeting of the North Carolina Conference of Graduate Schools (NCCGS) at UNC Wilmington in November, 2005. The meeting was combined with the staff development workshop. Dr. Melson completed his service as Treasurer of NCCGS at the meeting.

Dr. Melson attended the annual meeting of the Council of Graduate Schools in Palm Springs, CA from December 7 through 10, 2005. The meeting had been relocated from New Orleans, LA following Hurricane Katrina. He had to cancel his planned attendance at the annual meeting of the Conference of Southern Graduate Schools (CSGS) in Little Rock, AR due to illness.

Dr. Solano wrote a program survey for use by the Association of Graduate Liberal Studies Programs (AGLSP).

Dr. Melson attended the GREAT Group Annual Meeting in Fort Myers, FL from October 15-17 and the MD/PhD section meeting that followed immediately after the closing of the GREAT meeting. The NIH roadmap and the proposed changes to the application procedure for MD/PhD applicants through the AMCAS were among the many important issues discussed at the two meetings.

Dr. Melson continued as the WFU Councilor to the Oak Ridge Association of Universities (ORAU), but was unable to attend the annual meeting of ORAU due to a scheduling conflict. Membership in ORAU is beneficial to Wake Forest, with opportunities for participation in DOE laboratory facilities being available to faculty and students. A Department of Homeland Security Fellowship that supports a graduate student in the Department of Biochemistry is administered through ORAU.

From March 1-3, 2006, Dr. Melson served as a member of a five-person external review committee to consider the re-establishment of PhD programs at the American University of Beirut (AUB) in Lebanon. The review committee was established by the New York State Education Department (NYSED), the accrediting group for AUB. The team included Drs. Thomas Bartlett, former President of the American University of Cairo (AUC), Egypt and former President of the American Association of Universities (AAU), who served as chair of the committee, Roland Yoshida, Professor, Department of Education and Human Services and Provost Emeritus, Lehigh University, William Anslow, Chief Financial Officer, Zayed University, Dubai and Andrew Corrigan, Associate Dean for Collections, Howard-Tilton Memorial Library, Tulane University. Following the visit to AUB, the committee prepared a lengthy report with its recommendations that was submitted to the President and Provost of AUB for subsequent submission to NYSED.

Dr. Melson continued to serve as a member of the Board of the Virginia Tech-Wake Forest University School of Biomedical Engineering and Sciences. He attended the fall 2005 meeting of the Board in Winston Salem, but was unable to attend the spring 2006 meeting since he was out of the country at that time.

PROJECTIONS FOR THE 2006-2007 YEAR

Dr. Cecilia Solano assumed the position of Interim Dean of the Wake Forest University Graduate School of Arts and Sciences on July 1, 2006. In this position, Dr. Solano is responsible for all aspects of the administration of the Graduate School. A national search for a permanent dean will begin during fall 2006. Dr. Melson assumed the title of Dean Emeritus on July 1.

There will be two strategic planning processes taking place during the coming year. Both of these initiatives will have an effect on the Graduate School of Arts and Sciences. First, President Hatch has established a Planning Council, co-chaired by Provost Gordon and Vice President Nancy Suttentfield, to develop a Strategic Plan for the WFU Reynolda campus. It will be important that the role of graduate education at Wake Forest is addressed in the Strategic Plan (the Graduate School is not directly represented on the Planning Council). The data-gathering phase of the process will occur during the summer of 2006, with members of the Planning Council working in two sub-committees to examine the quantitative and qualitative information received. The Planning Council will present its findings and recommendations in fall 2007.

Second, Dean Applegate announced on June 1, 2006 that a WFUSM Faculty Research Retreat will take place on October 20, 2006. Seven faculty working groups were established. Each group will explore key areas identified by the Planning Committee and prepare white papers to be presented on October 20. Two of these faculty working groups directly involve the Graduate School, which will be represented by Interim Dean Solano. The first group will *“Develop strategies that foster research collaborations within WFUSM as well as with WFU”*. The second will *“Evaluate graduate and postdoc programs at WFUSM as well as the role these programs have in the research community. Also include the recruitment of graduate and postdoctoral candidates”*.

Graduate education must be established as a major priority for Wake Forest University (both campuses) for the continued development of excellence in the graduate programs. The financial constraints that have been endured by the Graduate School for the past three years must be addressed during the coming year, especially through the planning processes that will take place. Student stipends in ALL programs must be competitive with other institutions with whom WFU competes for students.

The Research Advisory Council (RAC) on the Reynolda campus in its report to the Budget Advisory Committee on February 7, 2006 commented that *“...strengthening the graduate program is a critical priority needed to keep research programs active in (many) departments”*. The RAC also stated *“We ask that additional funding be given to the graduate program to allow increases in the number and value of graduate student stipends.”* The Graduate School strongly supports the recommendation of the RAC and should press for stipend increases for FY08 during the coming year. In addition, the payment of health insurance premiums for students in departments offering the PhD degree on the Reynolda campus (Biology, Chemistry and Physics) must be achieved as soon as possible.

The graduate faculty must continue to be encouraged to include student support in their applications to federal, state and local agencies. Graduate students should also be submitting increasing numbers of applications for support (NRSA etc.). Programs to assist these students should continue to be offered through the Graduate School, the offices of research on both campuses and by faculty in individual graduate programs.

External fundraising must continue to be a high priority for the Graduate School. The Annual Funds are attracting more donors and raising more funds each year, thanks to the assistance of staff in the development offices on both campuses. The money raised through solicitations to the funds is unrestricted and may be used in any manner that is determined by the Dean of the Graduate School to benefit graduate students. For the past two years, these funds have been used to support students' travel to national and international professional meetings where they have presented their research. These programs should continue; the reaction of the alumni and friends of the Graduate School to the travel programs has been most positive. Additional funds must also be sought for the newly-established graduate student awards.

Discussions on the structure of the Biomedical Sciences graduate program should continue during the year, especially discussing the question "*Should an interdisciplinary graduate program with several tracks as proposed during the 2005-06 year replace the current structure?*" The development of a proposal by the WFUSM to the NIH for a Clinical and Translational Science Award (CTSA) should impact the above discussion. The Research Education, Training and Career Development (RECD) committee is considering the establishment of master's and doctoral programs in Clinical and Translational Science (CTS). Such programs would be included as part of the proposal for the CTSA. The RECD committee is being lead by Drs. David Goff (Epidemiology and Internal Medicine) and Linda McPhail (Biochemistry). The role and future of the MD/PhD program should also be a part of these discussions.

Plans for the implementation of the approved MA degree program in Bioethics should occur. The formation of a Center for Bioethics should be further discussed by the Committee on Bioethics and the administration and a decision reached on whether the Center should be formed prior to offering the MA degree or if the degree program can be offered in fall 2007 as approved by the graduate faculty.

The proposal submitted for a combined MDiv/MA in Counseling degree program should be considered by the Graduate Council and Graduate Faculty. Any additional resources that are necessary to support this program should be identified before consideration. The proposal to establish a certificate program in Medieval Studies should also be considered by these bodies. Discussions between the Graduate School and the Babcock Graduate School of Management should continue during the year to seek any common ground for additional collaborations between the two schools.

Review of the Department of Communication will take place during 2006-07. This is the only department with a graduate program that will be reviewed this year.

The implementation of the revised on-line application should take place for students applying for the 2007-08 year. Problems with integrating the application and the Banner

administrative computer system on the Reynolda campus should be resolved as soon as possible, so that the Graduate School can present a common application procedure for all potential applicants. It is important that web sites for the graduate programs be continually updated. These sites serve as the providers of information on graduate programs to potential applicants and also serve as the direct link to the Graduate School's on-line application.

The Graduate School of Arts and Sciences Honor Code will become effective on August 1, 2006 and will apply to all matriculating graduate students in 2006-07. It will also be in place for all future graduate students at Wake Forest University.

Recommendations from the report issued by the Research Advisory Committee (RAC) of the School of Medicine sub-committee on postdoctoral affairs should be implemented. These include establishing an independent Office of Postdoctoral Education, designation of a Faculty Leader, enhancement of the website and the formation of a Postdoctoral Fellows Advisory Committee.

APPENDIX

Administration, Graduate School of Arts and Sciences

Gordon A. Melson, Ph.D., Dean of the Graduate School of Arts and Sciences,
Professor of Chemistry

Cecilia H. Solano, Ph.D., Associate Dean, Director of the MALS Program,
Associate Professor of Psychology

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

Carol E. DiGiantomaso, Admissions Coordinator,
Reynolda Campus

Susan C. Pierce, Registrar and Coordinator,
Biomedical Sciences Program, Bowman Gray Campus

Kelley N. Reavis, Administrative Assistant,
Biomedical Sciences Program, Bowman Gray Campus

Beth R. Whitsett, Administrative Assistant,
Biomedical Sciences Program, Bowman Gray Campus

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

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

Irene Picconi, Staff Assistant (part-time), to January 2006
Reynolda Campus

Michelle Silveri (part-time), from January 2006
Reynolda Campus

Standing Committees of the Graduate School

Graduate Council

Gordon A. Melson, Dean of the Graduate School, Chair
Cecilia H. Solano, Associate Dean of the Graduate School
Martha Alexander-Miller, Microbiology and Immunology (2007)*
Allyson Bennett, Physiology and Pharmacology (2008)
Christa Colyer, Chemistry (2008)
Will Fleeson, Psychology (2007)[#]
David John, Computer Science (2008)

Graduate Council (cont)

Greg Kucera, Hematology/Oncology (2005)
Linda McPhail, Biochemistry (2007)
Mark Miller, Cancer Biology (2006)
Pat Nixon, Health and Exercise Science (2006)
Stephen Robinson, Mathematics (2007)
Peter Santago, Biomedical Engineering (2006)
Brian Tague, Biology (2006)
Blythe Ashcraft, Chemistry (GSA, Reynolda Campus)
Megan Rudock, Molecular Genetics (GSA, Biomedical Sciences)

* *Year term expires*

Secretary to the Council and Graduate Faculty

Graduate Council Committees

Credentials/Nominations Committee

Stephen Robinson (Chair)
Martha Alexander-Miller
David John
Greg Kucera

Curriculum Committee

Mark Miller (Chair)
Allyson Bennett
Will Fleeson
Pat Nixon

Policy Committee

Brian Tague (Chair)
Blythe Ashcraft
Christa Colyer
Linda McPhail
Megan Rudock
Peter Santago

Biomedical Sciences Committee (Bowman Gray Campus)

Gordon A. Melson, Dean, Chair
Cecilia H. Solano, 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) (cont)

Donald Bowden, Molecular Genetics
Dwayne Godwin, PhD/MBA
Craig Hamilton, Biomedical Engineering
Kevin High, Molecular Medicine
Sara Jones, Physiology and Pharmacology
Charles McCall, MD/PhD
Linda McPhail, Molecular Medicine
Michelle Naughton, Health Sciences Research
Ronald W. Oppenheim, Neuroscience
John S. Parks, Molecular and Cellular Pathobiology
Emilio Salinas, Neurobiology and Anatomy
Susan C. Pierce, Registrar and Coordinator
Suzy Torti, Biochemistry
Jeff Weiner, Physiology and Pharmacology

Graduate Program Directors Committee (Reynolda Campus)

Gordon A. Melson, Dean, Chair
Cecilia H. Solano, Associate Dean
Ed Allen, Mathematics
Terry A. Baker, Accountancy
Keith D. Bonin, Physics
Dale Dagenbach, Psychology
Samuel T. Gladding, Counseling
Fred Horton, Religion
David John, Computer Science
Bruce King, Chemistry
Scott Klein, English
Kathy Kron, Biology
Anthony P. Marsh, Health and Exercise Science
Leah P. McCoy, Education
Ananda Mitra, Communication
Cecilia H. Solano, MALS

MD/PhD Committee

Charles McCall, Molecular Medicine, Chair
Paul Laurienti, Radiologic Sciences
Gordon A. Melson, Dean, Graduate School
Lewis H. Nelson, Associate Dean, Student Services and Admissions, School of Medicine

PhD/MBA Committee

Dwayne W. Godwin, Neurobiology and Anatomy, Chair
Carolyn P. Campbell, Babcock Graduate School of Management
J. Kendall Middaugh, Babcock Graduate School of Management
Mark O. Lively, Biochemistry

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
Gordon A. Melson, 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
Bernard Brown II, Chemistry
David Carroll, Physics
Clay Gabler, Virginia Tech
Jason Graves, Physiology and Pharmacology, Student Representative
Craig Hamilton, Biomedical Engineering
Greg Hawkins, Center for Human Genomics
Daniel Johnson, Biology
Ann Lambros, Medical Education
Ellen Palmer, Microbiology and Immunology, Post-doctoral Fellows Representative
Susan Pierce, Graduate School
Michael Tytell, Neurobiology and Anatomy

Structural and Computational Biophysics Advisory Committee

Jacquelyn Fetrow, Computer Science and Physics, Chair
Bernard Brown II, Chemistry
Daniel Kim-Shapiro, Physics
David John, Computer Science
Gordon Melson, Graduate School
Linda Porrino, Biochemistry

VT-WFU SBES Governing Board Members

WFU Members

William Applegate, Dean, School of Medicine
Doug Edgeton, Senior Vice President, WFUHS
Allen Elster, Chair, Radiologic Sciences
Gordon Melson, Dean, Graduate School
Wayne Meredith, Chair, Surgical Sciences, Member-Elect
Peter Santago, Associate Director, SBES

VT Members

Richard Benson, Dean, College of Engineering
Karen DePauw, Dean, Graduate School
Gerhardt Schurig, Dean, College of Veterinary Medicine
Ken Ball, Head, Mechanical Engineering
Elaine Scott, Director, SBES

Graduate Faculty Representatives

University Senate

Kathy Kron, Biology (2009)
Gregory Shelness, Pathology/Comparative Medicine (2006)
Suzy Torti, Biochemistry (2008)

Faculty Grievance Liaison Persons

Dale Dagenbach, Psychology (2006) - Primary
Leslie B. Poole, Biochemistry (2006) - Alternate

Graduate Student Liaison Persons

Sara Jones, Physiology and Pharmacology (2006)
Clifford Zeyl, Biology (2006)

WFU Task Force on Bioethics

Gordon A. Melson, Dean, Graduate School, Co-Chair
Sally A. Shumaker, Public Health Sciences, Co-Chair
Christine Coughlin, School of Law
Tom DuBose, Internal Medicine
Mark Hall, School of Law
Hannah Hardgrave, Philosophy
Michael Hyde, Communication
Fred Kahl, Cardiology
James Toole, Neurology

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

John Wagster, Chair, Board of Visitors

Terms Expiring June 30, 2006

Pete Bondy	Ft. Lauderdale, FL
Jane Crosthwaite	South Hadley, MA
Trish Cunningham	Natural Bridge, VA
George Hundley*	Wynnewood, PA
Mark Leuchtenberger	Cambridge, MA
Marc Miller	Chicago, IL
Christoph Nostitz	Clemmons, NC
Ron Parker	Plano, TX
Keith Vaughan	Winston-Salem, NC
Doug Waller*	Washington, DC

Terms expiring June 30, 2007

Bruce Babcock	Winston-Salem, NC
Callie Anne Clark	Hinsdale, IL
Brenda Dunson	Washington, DC
Gloria Graham*	Winston-Salem, NC
Steve Hurst*	New York, NY
Bob Lee*	Darien, CT
Debi Lee	Darien, CT
Whit McDowell*	Charlotte, NC
Jim Perdue	Salisbury, MD
Zach Tate	Blowing Rock, NC
Bill Thorkelson	Rosemont, PA
John Wagster	Nashville, TN

Terms Expiring June 30, 2008

Debra Bryant*	Keswick, VA
John Crowe*	Davis, CA
Sarah duPont	Charlottesville, VA
Gail Gregory	Martinsville, 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
Cathy Thomas	Chapel Hill, NC

Terms Expiring June 30, 2008 (cont)

Betsy Tuttle-Newhall
Joy Vermillion
Mary Helen Young

Chapel Hill, NC
Winston-Salem, NC
Malibu, CA

Terms Expiring June 2009

Pete Daniel*
John Geissinger
Bob Frehse
Max Gomez*
Olivia Holding
David O'Maley
Karen O'Maley*
David Shouvlin
Deborah Shively
Glenn Shively*

Washington, DC
Darien, CT
New York, NY
Briarcliff Manor, NY
Raleigh, NC
Cincinnati, OH
Cincinnati, OH
Hilliard, OH
Malvern, PA
Malvern, PA

Ex Officio Members

Zach Smith, Lifetime Trustee Liaison
Donna Boswell, Trustee Liaison

Winston-Salem, NC
Washington, DC

*Members of the Graduate School Advisory Committee (GSAC)

TABLE 1. GRADUATE PROGRAMS AT WAKE FOREST UNIVERSITY, 2005-2006

REYNOLDA CAMPUS PROGRAMS

ACC	Accountancy	MSA	With the Wayne Calloway School of Business and Accountancy
BIO	Biology	PhD, MS	
CHM	Chemistry	PhD, MS	
CNS	Counseling	MA	
COM	Communication	MA	
CSC	Computer Science	MS	
EDU	Education	MAEd	
ENG	English	MA	
HES	Health and Exercise Science	MS	
MLS	Liberal Studies	MALS	
MTH	Mathematics	MA	
PHY	Physics	PhD, MS	
PSY	Psychology	MA	
REL	Religion	MA	

BIOMEDICAL SCIENCES PROGRAMS

BICM	Biochemistry and Molecular Biology	PhD
BMES	Biomedical Engineering	PhD, MS
CABI	Cancer Biology	PhD
COMD	Comparative Medicine	MS
HSRP	Health Sciences Research	MS
MICR	Microbiology and Immunology	PhD
MCPA	Molecular and Cellular Pathobiology	PhD
MOGN	Molecular Genetics	PhD
MOME	Molecular Medicine	PhD, MS
NBAT	Neurobiology and Anatomy	PhD
NUSC	Neuroscience	PhD
PSPR	Physiology and Pharmacology	PhD

COMBINED PROGRAMS

MD/PhD	With the WFU School of Medicine
PhD/MBA	With the WFU Babcock Graduate School of Management

**TABLE 2. APPLICATION STATISTICS
1994-2006**

REYNOLDA CAMPUS PROGRAMS

Year (Fall)	Applications	Accepted	Matriculated
1994	590	184 (31.2%)	155 (84.2%)
1995	630	227 (36.0%)	190 (83.7%)
1996	581*	193 (33.2%)	172 (89.1%)
1997	642	189 (29.4%)	154 (81.5%)
1998	617	236 (38.2%)	171 (72.5%)
1999	569	262 (46.0%)	166 (63.3%)
2000	564	221 (39.1%)	174 (78.7%)
2001	607	247 (40.7%)	171 (69.2%)
2002	729	248 (34.0%)	181 (73.0%)
2003	640	239 (37.3%)	198 (82.8%)
2004	642	228 (35.5%)	186 (81.6%)
2005	773	271 (35.1%)	196 (72.3%)
2006	783	254 (32.4%)	187 (73.6%)

BIOMEDICAL SCIENCES PROGRAMS

1994	589	60 (10.2%)	44 (73.3%)
1995	333*	64 (19.2%)	36 (56.3%)
1996	265	64 (24.1%)	34 (56.3%)
1997	290	83 (28.6%)	42 (50.6%)
1998	315	87 (27.6%)	44 (50.6%)
1999	265	79 (29.8%)	43 (54.4%)
2000	325	87 (26.8%)	52 (59.8%)
2001	282	85 (30.1%)	47 (55.3%)
2002	329	98 (29.8%)	55 (56.1%)
2003	346	105 (30.3%)	73 (69.5%)
2004	401	120 (29.9%)	72 (60.0%)
2005	470	140 (29.8%)	79 (56.4%)
2006	516	125 (24.2%)	69 (55.2%)

*Restrictions on international applications introduced

TABLE 3. STUDENT PROFILE, APPLICANTS, ACCEPTED, MATRICULANTS, FALL 2004 - FALL 2006

REYNOLDA CAMPUS PROGRAMS

	Male	Female	Unk	TOTAL	White	Black	Hispanic	Asian*	Am Ind	Intern#	Unk
<u>Applicants</u>											
2004	237	405	0	642	423	20	11	10	0	131	47
2005	283	490	0	773	503	31	12	15	1	168	43
2006	317	466	0	783	543	21	11	15	0	178	15
<u>Accepted</u>											
2004	94	134	0	228	174	7	4	2	0	30	11
2005	112	159	0	271	218	13	5	8	0	21	6
2006	106	148	0	254	198	7	3	7	0	30	9
<u>Selectivity</u>											
2004				35.5%							
2005				35.1%							
2006				32.4%							
<u>Matriculants</u>											
2004	76	110	0	186	153	15	2	1	0	15	0
2005	80	116	0	196	163	10	3	5	0	15	0
2006	84	103	0	187	154	11	1	4	0	17	0
<u>Yield</u>											
2004				81.6%							
2005				72.3%							
2006				73.6%							

BIOMEDICAL SCIENCES PROGRAMS

<u>Applicants</u>											
2004	192	193	16	401	190	25	13	21	1	121	30
2005	215	251	4	470	212	19	10	21	0	179	29
2006	247	262	7	516	191	19	8	20	2	210	66
<u>Accepted</u>											
2004	47	73	0	120	77	10	5	2	0	20	6
2005	57	83	0	140	93	5	2	6	0	29	5
2006	48	76	1	125	84	5	2	5	0	22	7
<u>Selectivity</u>											
2004				29.9%							
2005				29.8%							
2006				24.2%							
<u>Matriculants</u>											
2004	30	42	0	72	43	8	3	1	0	17	0
2005	34	45	0	79	51	4	1	5	0	18	0
2006	31	38	0	69	45	5	2	4	0	13	0
<u>Yield</u>											
2004				60.0%							
2005				56.4%							
2006				55.2%							

*U.S. Address, Asian Ethnicity

Non-U.S. Address, Ethnicity not checked

Applicants: Completed applications received

Accepted: Students to whom offers of admission were made

Matriculants: Students who enrolled

**TABLE 4. STUDENT PROFILE, APPLICANTS, MATRICULANTS, DEMOGRAPHICS
FALL 2004-FALL 2006**

REYNOLDA CAMPUS PROGRAMS

State*	2004		2005		2006	
	Applicants	Matriculants	Applicants	Matriculants	Applicants	Matriculants
AL	8	2	7	3	2	0
CA	13	7	10	1	10	1
FL	23	4	20	6	20	5
GA	22 (3.4%)	6 (3.2%)	19 (2.5%)	4 (2.0%)	18 (2.3%)	2 (1.1%)
MD	9	2	9	6	4	0
NC	278 (43.3%)	107 (57.5%)	330 (42.7%)	119 (60.7%)	307 (39.2%)	116 (62%)
NJ	5	1	5	0	6	1
NY	18	6	19	1	12	2
OH	10	0	18	4	12	2
PA	19 (3.0%)	4	27 (3.5%)	4 (2.0%)	26 (3.3%)	5 (2.7%)
SC	27 (4.2%)	6 (3.2%)	20 (2.6%)	3 (1.5%)	22 (2.8%)	6 (3.2%)
TN	8	2	12	3	23	6
TX	5	1	10	2	10	2
VA	31 (4.8%)	9 (4.8%)	49 (6.3%)	12 (6.1%)	47 (6.0%)	10 (5.3%)
Other States	86 (13.4%)	14 (7.5%)	86 (11.1%)	13 (6.6%)	86 (11.0%)	12 (6.4%)
Intern &Unkn	80 (12.5%)	15 (8.1%)	132 (17.1%)	15 (7.7%)	178 (22.7%)	17 (9.1%)
TOTAL	642	186	773	196	783	187

*State of student permanent address

**TABLE 4 (CONT). STUDENT PROFILE, APPLICANTS, MATRICULANTS, DEMOGRAPHICS
FALL 2004-FALL 2006**

BIOMEDICAL SCIENCES PROGRAMS

State*	2004		2005		2006	
	Applicants	Matriculants	Applicants	Matriculants	Applicants	Matriculants
AL	1	0	3	0	6	3
CA	13	1	16	1	10	0
FL	15 (3.7%)	0	6 (1.3%)	1 (1.3%)	13 (2.5%)	1 (1.4%)
GA	12	4	7	0	16	2
MD	11	2	6	0	5	0
NC	82 (20.4%)	22 (30.6%)	78 (16.6%)	25 (31.6%)	74 (14.3%)	23 (33.3%)
NJ	7	1	13	4	9	2
NY	8	2	10	1	11	2
OH	7	3	10	3	7	0
PA	13 (3.2%)	1 (1.4%)	20 (4.3%)	2 (2.5%)	14 (2.7%)	1 (1.4%)
SC	8	2	6	2	13	2
TN	1	1	16	4	11	2
TX	11	3	11	1	8	1
VA	20	6	34	4	26	5
Other States	65 (16.2%)	6 (8.3%)	55 (11.7%)	13 (16.5%)	83 (16.1%)	12 (17.4%)
Intern &Unkn	127 (31.7%)	18 (25.0%)	179 (38.1%)	18 (22.8%)	210 (40.7%)	13 (18.8%)
TOTAL	401	72	470	79	516	69

*State of student permanent address

TABLE 5. US - CITIZEN*/NON - CITIZEN APPLICATIONS

	Reynolda		Biomedical Sciences	
	2005	2006	2005	2006
US Citizens	589	605	249	306
Non-Citizens	179	178	210	210
China	93	72	92	102
India	20	38	39	62

*Includes permanent residents

**TABLE 6. STANDARDIZED SCORES AND GRADE POINT AVERAGES (GPA)
FALL 2004-FALL 2006**

REYNOLDA CAMPUS PROGRAMS

	Verb	Quant	(V+Q)	Anal	TOTAL	GPA	TOEFL	GMAT	GRE Anal
<u>Applicants</u>									
2004	531	631	1162	608	1770	3.4	607	627	4.67
2005	488	762	1250	541	1791	3.4	613	623	4.56
2006	517	639	1156	-	-	3.4	603	626	5
<u>Accepted</u>									
2004	579	690	1269	632	1901	3.5	603	639	4.84
2005	503	670	1173	641	1814	3.5	617	627	5.00
2006	541	669	1210	-	-	3.5	613	625	5.66
<u>Matriculants</u>									
2004	546	645	1191	637	1828	3.5	607	634	4.81
2005	495	669	1164	636	1800	3.5	617	635	4.86
2006	528	660	1188	-	-	3.4	613	625	5.21

BIOMEDICAL SCIENCES PROGRAMS

<u>Applicants</u>									
2004	511	684	1195	-	-	3.3	261*	-	4.50
2005	497	690	1187	-	-	3.4	258*	-	4.20
2006	499	703	1202	-	-	3.3	255*	-	4.10
<u>Accepted</u>									
2004	519	681	1200	-	-	3.5	266*	-	4.70
2005	523	694	1217	-	-	3.5	266*	-	4.50
2006	531	704	1235	-	-	3.6	246*	-	4.60
<u>Matriculants</u>									
2004	503	670	1173	-	-	3.4	265*	-	4.60
2005	515	682	1197	-	-	3.3	264*	-	4.40
2006	524	696	1220	-	-	3.5	245*	-	4.40

*Computer-based test results

**TABLE 7. STANDARDIZED TEST SCORES FOR MATRICULATED STUDENTS
GRADUATE RECORD EXAMINATION (GRE) SCORES**

REYNOLDA CAMPUS PROGRAMS

Year (Fall)	Verbal (%)*	Quantitative (%)*	(Combined)	Analytical (%)*	(Total)
1994	610	640	(1250)	670	(1920)
1995	600	650	(1250)	680	(1930)
1996	530	610	(1140)	620	(1760)
1997	565	636	(1201)	657	(1858)
1998	539	601	(1140)	612	(1752)
1999	533	634	(1167)	622	(1789)
2000	535 (69%)	634 (64%)	(1169)	647 (74%)	(1816)
2001	523 (66%)	630 (62%)	(1153)	627 (68%)	(1780)
2002	515 (62%)	624 (57%)	(1139)	622 (62%)	(1761)
2003	561 (76%)	662 (64%)	(1223)	673 (71%)	(1896)
2004	546 (69%)	645 (55%)	(1191)	637 (65%)	(1828)
2005	495 (59%)	669 (62%)	(1164)	636 (64%)	(1800)
2006	528 (64%)	660 (60%)	(1188)	5.21 (70%)	-

BIOMEDICAL SCIENCES PROGRAMS

1994	541	653	(1194)	620	(1814)
1995	545	655	(1200)	653	(1853)
1996	564	680	(1244)	634	(1878)
1997	551	668	(1219)	636	(1855)
1998	534	643	(1177)	636	(1813)
1999	544	642	(1186)	657	(1843)
2000	531 (68%)	660 (71%)	(1191)	667 (79%)	(1858)
2001	517 (64%)	635 (63%)	(1152)	640 (72%)	(1792)
2002	525 (65%)	646 (59%)	(1171)	621 (61%)	(1792)
2003	516 (64%)	658 (64%)	(1174)	652 (68%)	(1826)
2004	503 (60%)	670 (62%)	(1173)	4.60 (52%)	-
2005	515 (64%)	682 (64%)	(1197)	4.40 (52%)	-
2006	524 (65%)	696 (67%)	(1220)	4.40 (52%)	-

National mean all takers:

2000-2003	470	598	(1068)	4.2	
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**TABLE 7 (CONT). STANDARDIZED TEST SCORES FOR MATRICULATED STUDENTS GRADUATE MANAGEMENT ADMISSIONS TEST
GMAT SCORES**

ACCOUNTANCY PROGRAM

Year (Fall)	Score (%)*
1997	615
1998	626
1999	649
2000	646 (84%)
2001	635 (81%)
2002	629 (80%)
2003	645 (81%)
2004	634 (79%)
2005	635 (80%)
2006	625 (76%)

National Mean (50%), all takers:

2000-2002	528
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*Percent of examinees scoring lower than stated score

**STANDARDIZED TEST SCORES FOR MATRICULATED STUDENTS
MEDICAL COLLEGE ADMISSIONS TEST (MCAT) SCORES**

MD/PhD PROGRAM

Year (Fall)	Verb	Phys	Biol	Total
1998				34
1999				34
2000	7.5	11.5	11	30
2001	10	12	12	34
2002	12	12	10	34
2003	11	12	11	34
2004	8	13	11	32
2005	10	12.5	12	34.5
2006	11	11.5	11.5	34

**TABLE 8. STUDENT ENROLLMENT
FALL 1999-FALL 2006**

REYNOLDA CAMPUS PROGRAMS

<u>Year</u>	<u>F99</u>	<u>F00</u>	<u>F01</u>	<u>F02</u>	<u>F03</u>	<u>F04</u>	<u>F05</u>	<u>F06</u>
PhD Programs								
BIO	35	35	25	31	39	36	38	37
CHM	25	26	35	34	33	30	34	43
PHY	18	17	24	23	24	22	17	21
TOTAL	78	78	84	88	96	88	89	101
Masters-only Programs								
ACC	39*	60*	58*	62*	58*	58*	62*	66*
ANT	5	3	3	-----				
CNS	29	28	28	31	31	31	32	32
COM	20	19	19	21	25	23	23	19
CSC	15	14	14	16	17	13	12	16
EDU	32	24	29	30	32	33	29	28
ENG	20	20	17	20	26	26	26	25
HES	15	13	13	14	14	14	14	14
HST	9	5	1	-----				
MLS	61	62	48	52	76	68	70	72
MTH	12	14	14	9	14	14	14	13
PSY	24	26	28	30	28	24	25	20
REL	19	14	8	10	13	15	17	10
TOTAL	300	302	280	295	334	319	324	315
<u>Unclassified</u>								
TOTAL	22	19	33	20	21	15	15	20
<u>TOTAL</u>	<u>400</u>	<u>399</u>	<u>397</u>	<u>403</u>	<u>451</u>	<u>422</u>	<u>428</u>	<u>436</u>

* Does not include 4th year Accountancy students

**TABLE 8 (CONT). STUDENT ENROLLMENT
FALL 1999-FALL 2006**

BIOMEDICAL SCIENCES PROGRAMS

<u>Year</u>	<u>F99</u>	<u>F00</u>	<u>F01</u>	<u>F02</u>	<u>F03</u>	<u>F04</u>	<u>F05</u>	<u>F06</u>
<u>PhD Programs</u>								
BICM	24	21	21	24	25	31	30	27
BMES-WFU	10	10	6	8	9	11	17	19
BMES-VT	-----				8	15	20	22
CABI	11	12	18	23	22	23	22	25
MICR	20	21	22	26	28	32	34	29
MCPA	18	18	20	18	20	18	17	19
MOGN	13	12	14	14	16	18	19	24
MOME	7	11	13	16	23	24	30	33
NBAT	12	11	15	15	15	15	16	18
NUSC	19	19	22	27	25	27	25	24
PSPR	22	26	26	25	27	26	25	24
TOTAL	156	161	177	196	218	240	255	264

Masters Programs

BMES-WFU	-----			0	1	1	1	2
BMES-VT	-----				5	10	11	10
CEHS	-----	10	19	18	17	15	-----	
COMD	0	0	1	0	0	0	0	0
EPID	8	3	0	1	1	-----	-----	
HSRE	7	5	2	2	1	1	-----	
HSRP	-----						20	27
MICR	-----							1
MCPA	0	0	0	0	0	0	1	0
MOME	0	1	0	0	1	1	1	1
PSPR	0	0	0	0	0	0	1	0
TOTAL	15	19	22	21	26	28	35	41

Unclassified

TOTAL	12	6	9	22	22	20	25	19
<u>TOTAL</u>	<u>183</u>	<u>186</u>	<u>208</u>	<u>239</u>	<u>266</u>	<u>288</u>	<u>315</u>	<u>324</u>

TOTAL GRADUATE STUDENT ENROLLMENT (ALL programs)

583	585	605	642	717	710	743	760
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**TABLE 9. STUDENT PROFILE, TOTAL ENROLLMENT, DEGREE-SEEKING STUDENTS
FALL 2005, FALL 2006**

REYNOLDA CAMPUS PROGRAMS

	2005			2006		
	<u>Total</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>	<u>Male</u>	<u>Female</u>
African-American	25	9	16	28	9	19
Asian-American	6	2	4	8	0	8
Hispanic-American	6	1	5	3	1	2
Native-American	0	0	0	0	0	0
Total under-represented	37 (9.0%)	12	25	39 (9.4%)	10	29
White	334	139	195	331	145	186
Total Domestic	371	151	220	370	155	215
International	42 (10.2%)	22	20	46 (11.1%)	24	22
TOTAL	413	173	240	416	179	237

BIOMEDICAL SCIENCES PROGRAMS

	2005			2006		
	<u>Total</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>	<u>Male</u>	<u>Female</u>
African-American	*32	*9	23	*35	*12	23
Asian-American	12	7	5	14	6	8
Hispanic-American	4	3	1	4	2	2
Native-American	1	0	1	0	0	0
Total under-represented	49 (17.0%)	19	30	53	20	33
White	188	85	103	192	88	104
Total Domestic	237	104	133	245	108	137
International	52 (18.0%)	24	28	58	26	32
TOTAL	289	128	161	303	134	169

*One male African-American enrolled in 2 programs

**TABLE 10. INTERNATIONAL STUDENT PROFILE
FALL 2005**

<u>Reynolda Campus</u>	<u>All (New)</u>	<u>Biomedical Sciences</u>	<u>All (New)</u>
<u>Country of Origin</u>		<u>Country of Origin</u>	
Austria	1	Belarus	1
Belarus	1 (1)	Brazil	1
Canada	2	Canada	2
China	18 (5)	China	13 (5)
Columbia	1 (1)	Dominican Republic	1
Egypt	1 (1)	Ethiopia	1
France	1 (1)	Germany	2 (1)
India	8 (3)	Ghana	1 (1)
Indonesia	2	India	17 (7)
Japan	1 (1)	Indonesia	1
Mexico	1 (1)	Japan	1 (1)
Peru	1	Korea	3 (2)
Russia	1	Lebanon	1
Turkey	1 (1)	Norway	1 (1)
United Kingdom	1	Poland	1
Vietnam	1	Romania	1
		Russian Federation	1
		Seychelles	1
		Spain	1
		Sri Lanka	1
		Switzerland	1
		Taiwan	1
Total	42 (15)	Total	54 (18)
Degree-seeking enrollment:	413 (196)	Degree-seeking enrollment:	290 (79)
<u>% International: 10.2% (7.7%)</u>		<u>% International: 18.6% (22.8%)</u>	

Total International: 96(13.7%)(33)(12.0%)

<u>Programs of Study</u>		<u>Programs of Study</u>	
Accountancy	3 (3)	Biochemistry/Molecular Biology	5 (1)
Biology	7 (2)	Biomedical Engineering	11 (5)
Chemistry	14 (4)	Cancer Biology	7 (1)
Communication	2 (1)	Clinical Epid/Health Serv Res	0 (0)
Computer Science	2 (0)	Health Sciences Research	5 (2)
Counseling	1 (1)	Microbiology/Immunology	5 (1)
Education	3 (1)	Molecular/Cellular Pathobiology	3 (2)
English	1 (1)	Molecular Genetics	2 (2)
Health and Exercise	0 (0)	Molecular Medicine	5 (1)
Liberal Studies	1 (0)	Neurobiology/Anatomy	5 (2)
Mathematics	3 (1)	Neuroscience	2 (1)
Physics	5 (1)	Physiology/Pharmacology	4 (0)
Psychology	0 (0)		
Religion	0 (0)		

**TABLE 10. INTERNATIONAL STUDENT PROFILE
FALL 2006**

<u>Reynolda Campus</u>	<u>All (New)</u>	<u>Biomedical Sciences</u>	<u>All (New)</u>
<u>Country of Origin</u>		<u>Country of Origin</u>	
Austria	1	Argentina	1 (1)
Belarus	1	Belarus	1
Brazil	1 (1)	Brazil	1
China	18 (6)	Canada	3 (1)
Columbia	2	China	18 (8)
Egypt	1	Dominican Republic	1
France	1	Egypt	1 (1)
Ghana	1 (1)	Ethiopia	1
Indonesia	1	Ghana	1
India	12 (6)	India	13 (1)
Japan	2 (1)	Indonesia	1
Mexico	1 (1)	Japan	2 (1)
Peru	1	Jordan	1 (1)
Romania	1 (1)	Korea	3
Russian Federation	1	Norway	1
Turkey	1	Romania	1
		Russian Federation	1
		Seychelles	1
		Spain	1
		Sri Lanka	1
		Switzerland	1
		Taiwan	1
		Thailand	1 (1)
		Turkey	1 (1)
Total	46 (17)	TOTAL	58 (16)
Degree-seeking enrollment:	416 (187)	Degree-seeking enrollment:	304 (69)
<u>% International: 11.1%(9.1%)</u>		<u>% International: 19.1%(23.2%)</u>	

Total International: 104(14.4%)(33)(12.9%)

<u>Programs of Study</u>		<u>Programs of Study</u>	
Accountancy	4 (1)	Biochemistry/Molecular Biology	5 (1)
Biology	5 (1)	Biomedical Engineering	12 (3)
Chemistry	18 (6)	Cancer Biology	6 (2)
Communication	4 (3)	Clinical Epid/Health Serv Res	0
Computer Science	0	Health Sciences Research	6 (1)
Counseling	2 (1)	Microbiology/Immunology	2
Education	1	Molecular/Cellular Pathobiology	5 (3)
English	1	Molecular Genetics	6 (2)
Health and Exercise Science	1 (1)	Molecular Medicine	3
Liberal Studies	1	Neurobiology/Anatomy	8 (3)
Mathematics	2 (1)	Neuroscience	2 (1)
Physics	6 (2)	Physiology/Pharmacology	3
Psychology	1 (1)		
Religion	0		

**TABLE 11. DEGREES AWARDED
1999-2000 TO 2005-2006**

REYNOLDA CAMPUS PROGRAMS

<u>Year</u>	<u>99-00</u>	<u>00-01</u>	<u>01-02</u>	<u>02-03</u>	<u>03-04</u>	<u>04-05</u>	<u>05-06</u>
<u>Ph.D. (M.S.)</u>							
BIO	1 (7)	4 (7)	1 (4)	1 (7)	2 (4)	4 (5)	3 (4)
CHM	6 (1)	1 (1)	4 (0)	3 (3)	3 (4)	5 (0)	4 (1)
PHY	4 (0)	0 (2)	3 (1)	3 (0)	6 (1)	5 (0)	0 (1)
TOTAL	11 (8)	5 (10)	8 (5)	7 (10)	11 (9)	14 (5)	7 (6)

Masters degrees from Masters -only programs

ACC	35	44	42	52	47	46	51
ANT	0	0	4	-----			
CNS	-----					15	15
COM	12	8	11	9	13	6	13
CSC	10	10	3	8	12	10	4
EDU(C)	15	14	12	15	16	-----	
EDU(T)	32	28	22	26	33	37	39
ENG	6	14	1	7	5	16	10
HES	7	7	6	7	7	7	7
HST	6	1	2	1	-----		
MLS	13	10	14	13	9	9	18
MTH	5	6	7	5	4	7	6
PSY	11	10	14	10	12	12	12
REL	1	6	2	1	3	4	5
TOTAL	147	158	140	154	161	169	180
TOTAL	11(155)	5(168)	8(145)	7(164)	11 (170)	14 (174)	7 (186)

**TABLE 11 (CONT). DEGREES AWARDED
1999-2000 TO 2005-2006**

BIOMEDICAL SCIENCES PROGRAMS

<u>Year</u>	<u>99-00</u>	<u>00-01</u>	<u>01-02</u>	<u>02-03</u>	<u>03-04</u>	<u>04-05</u>	<u>05-06</u>
<u>Ph.D. (M.S.)</u>							
BICM	3 (0)	7 (1)	2 (0)	4 (0)	2 (1)	4 (0)	5 (1)
BMES							
WFU	1(0)	3 (0)	1 (0)	1 (0)	2 (0)	2 (0)	2 (2)
VT	-----				0 (1)	0 (3)	2 (3)
CABI	1(0)	1 (0)	0 (0)	4 (0)	3 (1)	4 (0)	1 (0)
MICR	2 (0)	2 (0)	2 (0)	4 (0)	3 (0)	3 (0)	8 (0)
MCPA	1 (0)	2 (0)	3 (0)	2 (3)	2 (0)	4 (1)	2 (1)
MOGN	2 (0)	1 (0)	1 (0)	3 (1)	1 (0)	4 (0)	1 (0)
MOME	-----		2 (0)	0 (0)	4 (0)	3 (0)	1 (0)
NBAT	1 (1)	0 (1)	1 (0)	2 (0)	3 (0)	1 (0)	5 (0)
NUSC	2 (0)	1 (0)	1 (0)	3 (0)	4 (0)	5 (1)	3 (1)
PHAR	3 (1)	3 (0)	4 (0)	4 (0)	4 (1)	0 (1)	-----
PHYS	1 (0)	0 (0)	0 (0)	2 (0)	1 (0)	0 (0)	0 (0)
PSPR	-----					4 (0)	4 (0)
TOTAL	17 (2)	20 (2)	17 (0)	29 (4)	29 (4)	34 (6)	34 (8)

M.S. from Masters-only programs

CEHS	-----		5	5	7	6	3
COMD	0	0	0	0	0	0	0
EPID	3	3	0	0	1	-----	
HSRE	1	1	1	1	-----		
TOTAL	4	4	6	6	8	6	3

<u>TOTAL</u>	<u>17(6)</u>	<u>20(6)</u>	<u>17(6)</u>	<u>29 (10)</u>	<u>29 (12)</u>	<u>34 (12)</u>	34 (11)
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TOTAL NUMBER OF DEGREES AWARDED (All programs)

28(161)	25(174)	25(151)	36(174)	40 (182)	48 (186)	41 (197)
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**TABLE 12. TIME TO PhD DEGREE
1999-2000 TO 2005-2006**

Number of Years*		
	<u>Reynolda Campus Programs</u>	<u>Biomedical Sciences Programs</u>
Year		
99-00	5.5	5.1
00-01	†	4.8
01-02	5.5	5.2
02-03	5.7	5.2
03-04	4.8	5.2
04-05	5.2	5.2
05-06	5.1	5.1
5-year Average	5.3	5.1

*Years from matriculation to awarding of the degree

†Data not available

**TABLE 13. PLACEMENT
2005-2006**

REYNOLDA CAMPUS GRADUATES

<u>Program</u>	<u>U/Grad</u>	<u>Degree</u>	<u>Plans</u>
ACC	College of Charleston Davidson College Transylvania University University of Notre Dame UNC-Charlotte Wake Forest University*	MSA	PricewaterhouseCoopers, McLean, VA Money Management, Winston-Salem, NC Ernst & Young, Charlotte, NC Ernst & Young, Nashville, TN PricewaterhouseCoopers, Cincinnati, OH KPMG, Washington, DC Grant Thornton, LLP, Charlotte, NC PricewaterhouseCoopers, Boston, MA (2) Ernst & Young, Atlanta, GA (3) Dixon Hughes, PLLC, Greenville, NC Pursue JD Degree, University of San Diego, San Diego, CA Wachovia Securities, Charlotte, NC (2) Reznick Group, Baltimore, MD Bank of America, Charlotte, NC Public Accounting, Location Unknown Ernst & Young, Chicago, IL PricewaterhouseCoopers, Washington, DC Ernst & Young, Charlotte, NC KPMG, Washington, DC Wachovia, New York, NY PricewaterhouseCoopers, New York, NY (2) PricewaterhouseCoopers, Charlotte, NC (2) PricewaterhouseCoopers, Atlanta, GA (2) Enlightened Ventures, Denver, CO Navigant Consulting, Washington, DC KPMG, Charlotte, NC Deloitte & Touche, Charlotte, NC (2) Deloitte & Touche, Miami, FL Ernst & Young, Boston, MA (2) Pursue MBA, Location Unknown Ernst & Young, New York, NY Public Accounting Firm, Charlotte, NC KPMG, Greensboro, NC Reznick Group, Charlotte, NC (2) Ernst & Young, Tampa, FL Ernst & Young, Greensboro, NC Merrill Lynch, New York, NY Bear Stearns, New York, NY

*All subsequent from WFU

**TABLE 13 (CONT). PLACEMENT
2005-2006**

REYNOLDA CAMPUS GRADUATES

<u>Program</u>	<u>U/Grad</u>	<u>Degree</u>	<u>Plans</u>
ACC	Wake Forest University	MSA	Greer Walker, Charlotte, NY
BIO	Acadia University	PhD	Professor in Biology, Location Unknown
	Lenoir-Rhyne College		Post Doc, Location Unknown
	North Carolina State University		Post Doc, Location Unknown
	Virginia Polytechnic Institute & State University		Pursue PhD in Biology, WFU
	Wake Forest University		Unknown
			Pursue PhD in Biology, WFU
	Western Carolina University		Biotechnology Research, Raleigh, NC
CHM	Bogor Agricultural Institute	PhD	Post Doc, Location Unknown
	Houghton College		Post Doc, National Institute for Standards and Technology, Rockville, MD
	University of Missouri		Post Doc, Los Alamos National Laboratory, Los Alamos, NM
	UNC-Greensboro		Unknown
	East China University of Science and Technology		Pursue MS in Accounting, WFU
CNS	Brigham-Young University	MA	Pursue PhD in Counseling, UNC-Greensboro, Greensboro, NC
	Connecticut College		Adrian College, Adrian, MI
	Franklin & Marshall College		Pursue PhD in Counseling, Syracuse University, Syracuse, NY
	Ithaca College		School Counselor, Location Unknown
	N C A&T State University		School Counselor, Charlotte Mecklenberg School System, Charlotte, NC
	University of California - Berkeley		Counselor, NJ
	Univ. of California - Los Angeles		Pursue PhD in Counseling, Syracuse University, Syracuse, NY
	University of Florida		Counselor, American International Schools, Europe
	University of Iowa		Undecided
	University of Michigan		School Counselor, Location Unknown
	UNC-Chapel Hill		Pursue PhD, Georgia State University, Atlanta, GA
			Counselor, Gwinnett County Schools, Georgia
	UNC-Greensboro		Pursue PhD in Psychology, George Washington University, Washington, DC

**TABLE 13 (CONT). PLACEMENT
2005-2006**

REYNOLDA CAMPUS GRADUATES

<u>Program</u>	<u>U/Grad</u>	<u>Degree</u>	<u>Plans</u>
CNS	University of Puget Sound	MA	Unknown
COM	Catholic University	MA	Boston College, Boston, MA
	Clarion University		Assistant Director of Debate, James Madison University, Harrisonburg, VA
	Delhi University		Pursue PhD in Communications, Texas A&M University, College Station, TX
	Mercer University		Pursue PhD in Communications, University of Georgia, Athens, GA
	Pennsylvania State University		Pursue PhD in Speech Communication, University of Georgia, Athens, GA
	State Univ. of New York at		Pursue PhD in Communications, UNC-Chapel Hill, Chapel Hill, NC
	University of Georgia		Health Education, Location Unknown
	University of Louisville		Unknown
	UNC-Chapel Hill		Public Relations/Marketing, Atlanta, GA
	Wake Forest University		Pursue PhD in Health Communication, Rutgers University, New Jersey
Washington & Lee University	Pursue PhD in Communication Studies, UNC-Chapel Hill, Chapel Hill, NC		
CSC	Averett University	MS	Unknown
	Quinnipiac University		Pursue PhD, Biomedical Engineering, WFUSM
	Shanghai University		Pursue PhD in Biochemistry, WFUSM
	Wake Forest University		Unknown
EDU	Appalachian State University	MAEd	Pursue PhD in Computer Science, Location Unknown
	Davidson College		Teacher, Southwest Guilford High School, High Point, NC
	Nairobi University		Teacher, Maryland
	Ricardo Palma University		Pursue PhD in Education, University of York, England
	University of Delaware		Teacher, Location Unknown
			High School Teacher, Winston-Salem, NC

**TABLE 13 (CONT). PLACEMENT
2005-2006**

REYNOLDA CAMPUS GRADUATES

<u>Program</u>	<u>U/Grad</u>	<u>Degree</u>	<u>Plans</u>
EDU	UNC-Asheville	MAEd	Teacher, Winston-Salem Forsyth County Schools, Winston-Salem, NC
	University of Regina		Teacher, Al-Bayan Bilingual School, Kuwait
	University of Virginia		Teacher, Mt. Tabor High School, Winston-Salem, NC
	University of the West Indies		Teacher, Florida Unknown (3) Pursue PhD in Education, Location Unknown
	Wake Forest University		Teacher, Al-Bayan Bilingual School, Kuwait Teacher, Maryland Teacher, Taconic High School, Pittsfield, MA Teacher, South Hadley High School, South Hadley, MA Teacher, Memphis City Schools, Memphis, TN Unknown Pursue PhD in Education, Location Unknown
	Western Carolina University		Pursue PhD in Theology, Vintage Bible College, Winston-Salem, NC
	Winston-Salem State University		
ENG	Auburn University	MA	Unknown
	Georgia Southern University		Teacher, Public High School, Winston-Salem, NC
	Clemson University		Publishing, Raleigh, NC
	Oglethorpe University		Trade Publication, Atlanta, GA
	Rollins College		High School Teacher, Florida
	University of California, Davis		Pursue PhD in English, Location Unknown
	University of Florida		Unknown
	UNC-Asheville		Unknown
	UNC-Chapel Hill		Unknown
	Wake Forest University		Unknown
HES	Appalachian State University	MS	Exercise Specialist, Atlanta, GA
	East Carolina University		Pursue DPT in Physical Therapy, Location Unknown
	Elon University		Exercise Physiologist, Suburban Hospital, Bethesda, MD
	Furman University		Unknown
	Middle Tennessee State Univ.		Pursue DPT in Physical Therapy, Location Unknown
	Pennsylvania State University		Pursue PhD in Kinesiology, University of Michigan, Ann Arbor, MI

**TABLE 13 (CONT). PLACEMENT
2005-2006**

REYNOLDA CAMPUS GRADUATES

<u>Program</u>	<u>U/Grad</u>	<u>Degree</u>	<u>Plans</u>
HES	Winston-Salem State Univ.	MS	Exercise Physiology, WFUBMC
MLS	Appalachian State University Clemson University College of Charleston College of Mount St. Joseph George Washington Univ. High Point University Lenoir-Rhyne College North Carolina State Univ. Pfeiffer University Purdue University Radford University St. Andrews Presbyterian University of Pennsylvania Wake Forest University Western Carolina University	MALS	Unknown Pursue PhD in History, West Virginia University, Morgantown, WV Pursue PhD in Psychology, Location Unknown Nurse, Winston-Salem, NC Chair, Reynolda Museum of American Art, Winston-Salem, NC Unknown Unknown (2) Teacher, Thomasville, NC Pursue PhD in Sports Administration, Location Unknown Pursue BFA in Filmmaking, North Carolina School of the Arts, Winston-Salem, NC Teacher, Winston-Salem, NC Pursue PhD in Liberal Studies, Location Unknown Unknown Unknown Unknown (2) Director, Institute of Black Culture, Gainesville, FL Unknown
MTH	Appalachian State University Catawba College James Madison University Lenoir-Rhyne College Nagarjuna University Wake Forest University	MA	Pursue PhD in Mathematics, University of California, San Diego, San Diego, CA Pursue PhD in Mathematics, North Carolina State University, Raleigh, NC Pursue PhD in Mathematics, Tulane University, New Orleans, LA Pursue PhD in Education, Capella University Unknown Unknown
PHY	Bethany College	MS	Pursue PhD in Biomedical Engineering, WFUSM
PSY	College of William & Mary	MA	Pursue PhD in Clinical Psychology, Virginia Commonwealth University, Richmond, VA

**TABLE 13 (CONT). PLACEMENT
2005-2006**

REYNOLDA CAMPUS GRADUATES

<u>Program</u>	<u>U/Grad</u>	<u>Degree</u>	<u>Plans</u>
PSY	College of William & Mary	MA	Pursue PhD in Clinical Psychology, University of Nebraska, Lincoln, NE
	Elon University		Pursue PhD in Psychology, University of California-Riverside, Riverside, CA
	Furman University		Pursue PhD in Clinical Psychology, Louisiana State University, Baton Rouge, LA
	Georgetown University		Pursue PhD in Psychology, Location Unknown
	James Madison University		Unknown
	McDaniel College		Pursue PhD in Social Psychology, UNC-Chapel Hill, Chapel Hill, NC
	Tufts University		Pursue PhD in Social Psychology, University of Kansas, Lawrence, KS
	University of Georgia		Pursue PhD in Social Psychology, Duke University, Durham, NC
	University of Oklahoma		Pursue PhD in Clinical Psychology, Temple University, Philadelphia, PA
	University of the South		Pursue PhD in Psychology, North Carolina State University, Raleigh, NC
REL	New York University	MA	Pursue PhD in Religion, UNC
	Oklahoma State University		Pursue PhD in Religion, Baylor University Waco, TX
	Palm Beach Atlantic Univ.		Pursue MA in Arab Studies, Georgetown University, Washington, DC
	Wake Forest University		Pursue PhD in Religion, Location Unknown
	Washington University		Pursue JD, Location Unknown

**TABLE 13 (CONT). PLACEMENT
2005-2006**

BIOMEDICAL SCIENCES GRADUATES

<u>Program</u>	<u>U/Grad</u>	<u>Degree</u>	<u>Plans</u>
BICM	Catawba College	PhD	Unknown
	Lebanese University		Post Doc, Texas A&M University, Temple, TX
	Siena College		Post Doc, Carolinas Medical Center, Charlotte, NC
	UNC-Charlotte		Post Doc, WFUSM
	UNC-Wilmington		Post Doc, WFUSM
BMES	Florida Atlantic University	MS	Lab Tech, Location Unknown
	Case Western Reserve University	PhD	Schering Plough Pharmaceuticals, New Jersey
	University of Virginia	MS	Pursuing MD, WFUSM
	Tsinghua University		Pursue PhD in Biomedical Engineering, Location Unknown
UNC-Chapel Hill	Pursue PhD in Biomedical Engineering, WFUSM		
CABI	East Carolina University	PhD	Post Doc, Vanderbilt University, Nashville, TN
CEHS	Iowa State University	MS	MD, Private Practice, Winston-Salem, NC
	NC A&T University		Pursue MS in Sports Administration, Georgia State University, Atlanta, GA
	Samford University		MD, WFUSM
MICR	Clemson University	PhD	Post Doc, Fox Chase Cancer Center, Philadelphia, PA
	Lenoir-Rhyne College		Post Doc, WFUSM
	Mansfield University of Pennsylvania		Post Doc, Location Unknown
	Miami University		Post Doc, University of Pittsburgh, Pittsburgh, PA
	NC Central University		Post Doc, WFUSM
	NC State University		Unknown
	Virginia Polytechnic State Institute and State University		Post Doc, University of Pittsburgh, Pittsburgh, PA
		Post Doc, UNC-Chapel Hill, Chapel Hill, NC	

**TABLE 13 (CONT). PLACEMENT
2005-2006**

BIOMEDICAL SCIENCES GRADUATES

<u>Program</u>	<u>U/Grad</u>	<u>Degree</u>	<u>Plans</u>
MCPA	East Stroudsburg University	PhD	Post Doc, Columbia University, New York, NY
	Rutgers University		Post Doc, University of Pennsylvania, Philadelphia, PA
	Cornell University	MS	Unknown
MOGN	Gettysburg College	PhD	Post Doc, Hershey Medical Center, Hershey, PA
MOME	HeBei Medical University	PhD	Post Doc, WFUSM
NBAT	Appalachian State University	PhD	Post Doc, WFUSM
	Sonoma State University		Post Doc, WFUSM
	State University of New York at Birmingham		Assistant Professor, County College of Morris, Randolph, NJ
	University of Central Florida Univ. of Michigan-Ann Arbor		Unknown Post doc, UNC-Chapel Hill, Chapel Hill, NC
NUSC	Franklin & Marshall College	PhD	Post Doc, WFUSM
	Illinois Wesleyan University		Post Doc, National Institute of Aging, Bethesda, MD
	West China University of Medical Sciences		Post Doc, WFUSM
	Florida State University	MS	Research Associate, Location Unknown
PSPR	California Polytechnic State University	PhD	Pursuing MD, WFUSM
	Cornell University		Post Doc, Location Unknown
	University of Nebraska at Kearney		Post Doc, WFUSM
	Winston-Salem State Univ.		US Patent & Trademark Office, Alexandria, VA

**TABLE 14. FINANCIAL AID
1999-2000 TO 2005-2006**

REYNOLDA CAMPUS PROGRAMS

<u>Year</u>	<u>99-00</u>	<u>00-01</u>	<u>01-02</u>	<u>02-03</u>	<u>03-04</u>	<u>04-05</u>	<u>05-06</u>
<u>Tuition</u>	18,000	19,800	20,790	22,200	23,310	24,475	25,700
<u>Stipend (10 months, *12 months)</u>							
Fellowship	4,000	4,000	4,000	4,000	4,000	4,000	4,000
MTF	4,000 *	4,000	6,000	6,000	6,000 *	6,000 *	6,000 *
MTF (min)	8,000 *	8,000	8,000	8,000	8,000 *	8,000 *	8,000 *
Dean's Assistantship			17,000	17,500			
Dean's Assistantship-BIO, PHY					17,500	17,500	
Dean's Assistantship - BIO							18,850
Dean's Assistantship-CHM					19,500 *	19,500 *	21,500 *
Dean's Assistantship-PHY							19,500
BIO	12,500	13,000	13,500	14,000	14,000	14,000	15,350
CHM	14,500 *	15,000 *	15,500 *	16,000 *	17,500 *	17,500 *	19,500 *
PHY	13,000 *	13,500	14,000	14,500	14,500	14,500	16,000
ACC	6,000	6,000	6,000	6,000	6,000	6,000	6,000
CSC, MTH	9,000	9,500	9,500	10,000	10,000		
CSC						12,000	12,000
HES	8,000	8,500	8,500	8,500	8,500	8,500	8,500
MTH						10,000	10,000
PSY	8,000	8,500	8,500	8,500	8,500	8,500	8,500
CNS, COM, EDU, ENG, REL	7,000	7,000	8,000	8,000	8,000	8,000	8,000

BIOMEDICAL SCIENCES PROGRAMS

<u>Tuition#</u>	18,300	20,100	21,090	22,500	23,610	24,775	27,285
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Stipend (12 months)

ALL PROGRAMS

	15,500 +	16,000 +	16,500 +	18,500 +	20,000 +	20,772 +	20,772 +
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Includes summer tuition of \$300 per year

+ Plus contribution to health insurance premium

(98-99, \$600; 99-00, \$750; 00-01, \$900; 01-02, \$900; 02-03, \$900; 03-04, \$1,200;
04-05, \$1,800; 05-06, \$1,800)

**TABLE 15. SOURCES OF FINANCIAL AID
1999-2000 TO 2005-2006**

REYNOLDA CAMPUS PROGRAMS

<u>Year</u>	<u>99-00</u>	<u>00-01</u>	<u>01-02</u>	<u>02-03</u>	<u>03-04</u>	<u>04-05</u>	<u>05-06</u>
Assistantships	110	126	125	133	142	142	138
William Randolph Hearst Minority Assistantship			1	1	2	1	1
Dean's Fellowships (PhD programs)		3	3	3		2	3
Educators				7 ⁽²⁾	15	12	14
Fellowships	37	18	20	31	32	32	30
Scholarships/FT (#external support, of total)	107 (26)	120 (22)	96 (22)	99 (34)	113 (37)	106 (31)	107 (41)
Scholarships/PT	15	9	9	10	7	5	5
One-Half Scholarships				33 ⁽²⁾	32	32	33
Total with support	269	276	254	317	345	332	331
Self-Support	131	123	143	86	106	75	82
TOTALS	400	399	397	403	451	407	413
% Students receiving some financial aid	67.2	69.2	63.6	78.6	76.5	81.6	80.1

(1) Financial aid for Accountancy graduate student (5th year) started

(2) Counted as Self-Support prior to 2002-03

**TABLE 15 (CONT). SOURCES OF FINANCIAL AID
1999-2000 TO 2005-2006**

BIOMEDICAL SCIENCES PROGRAMS

<u>Year</u>	<u>99-00</u>	<u>00-01</u>	<u>01-02</u>	<u>02-03</u>	<u>03-04</u>	<u>04-05</u>	<u>05-06</u>
<u>Graduate School Support</u>							
Grad Fellowships	60	67	68	66	69	72	67
Dean's Fellowships	0	0	0	2	2	1	0
Scholarships/FT				4	10	10	8
<u>Other Departmental Sources</u>							
Institutional	1	1	11	7	16	19	16
VT						13	12
Clinical					5	6	2
Total	61	68	79	79	102	109	105
<u>External support</u>							
Research Grants	42	43	43	65	87	73	93
VT					13	8	14
Training Grants	42	40	47	45	37	44	46
NRSA/NSF/HH/US							
Army/Packard/AHA/PG/							
Homeland Security	10	12	10	11	13	12	18
VT						1	1
Total	94	95	100	121	132	150	172
Total with support	155	163	179	200	234	259	277
% Students with external support	60.6	58.3	56	61	56	58	62
Self-Support/unclass	16/12	17/7	20/9	17/22	7/22*	5/21*	8/25*
VT						3	4
TOTALS	183	187	208	239	263	288	314
% Students receiving some financial aid	84.7	87.2	86	84	89	90	88

**Unclassified includes 11 PREP Scholars, 3 MDs, and 11 Other

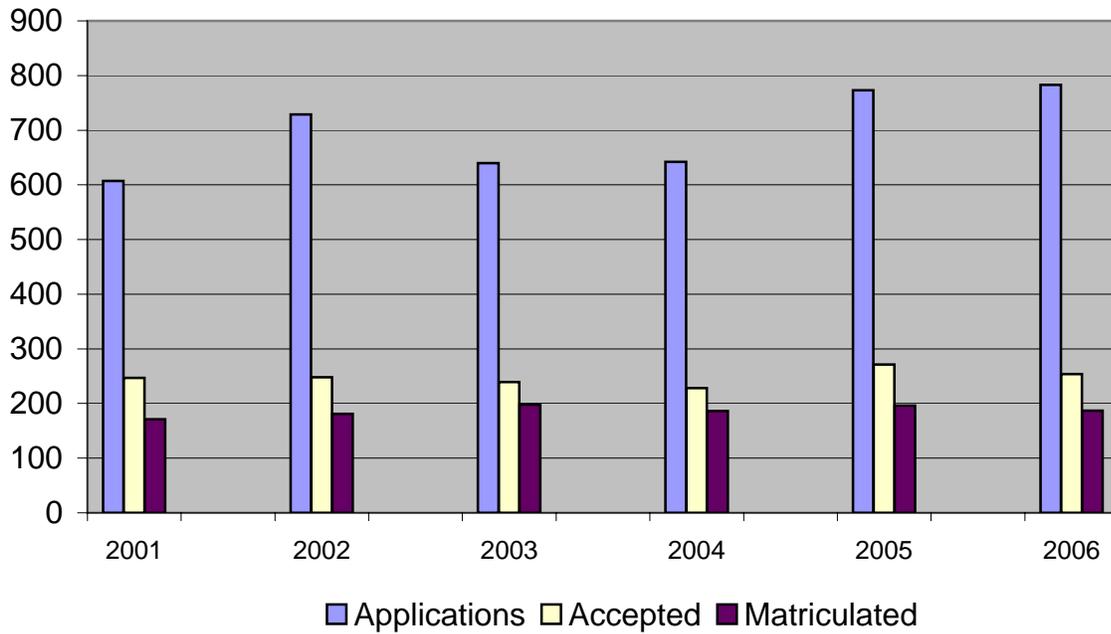
ADDENDUM

Selected Tables with information in graphical format.

**TABLE 2. APPLICATION STATISTICS
2001-2006**

REYNOLDA CAMPUS PROGRAMS

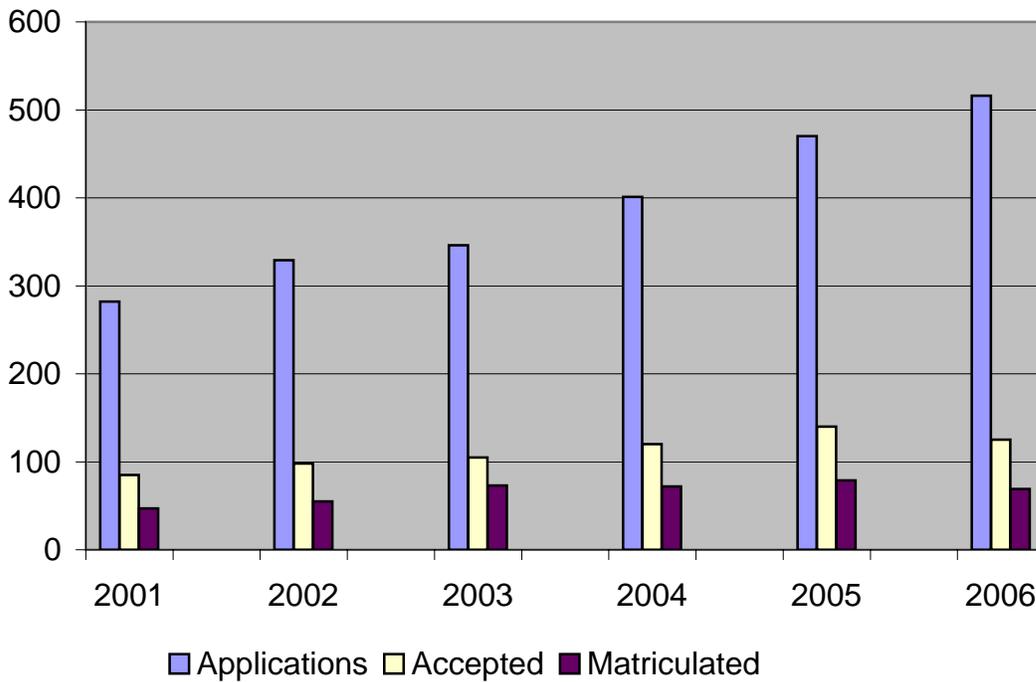
Year	Applications	Accepted	Matriculated
2001	607	247	171
2002	729	248	181
2003	640	239	198
2004	642	228	186
2005	773	271	196
2006	783	254	187



**TABLE 2 (CONT). APPLICATION STATISTICS
2001-2006**

BIOMEDICAL SCIENCES PROGRAMS

Year	Applications	Accepted	Matriculated
2001	282	85	47
2002	329	98	55
2003	346	105	73
2004	401	120	72
2005	470	140	79
2006	516	125	69



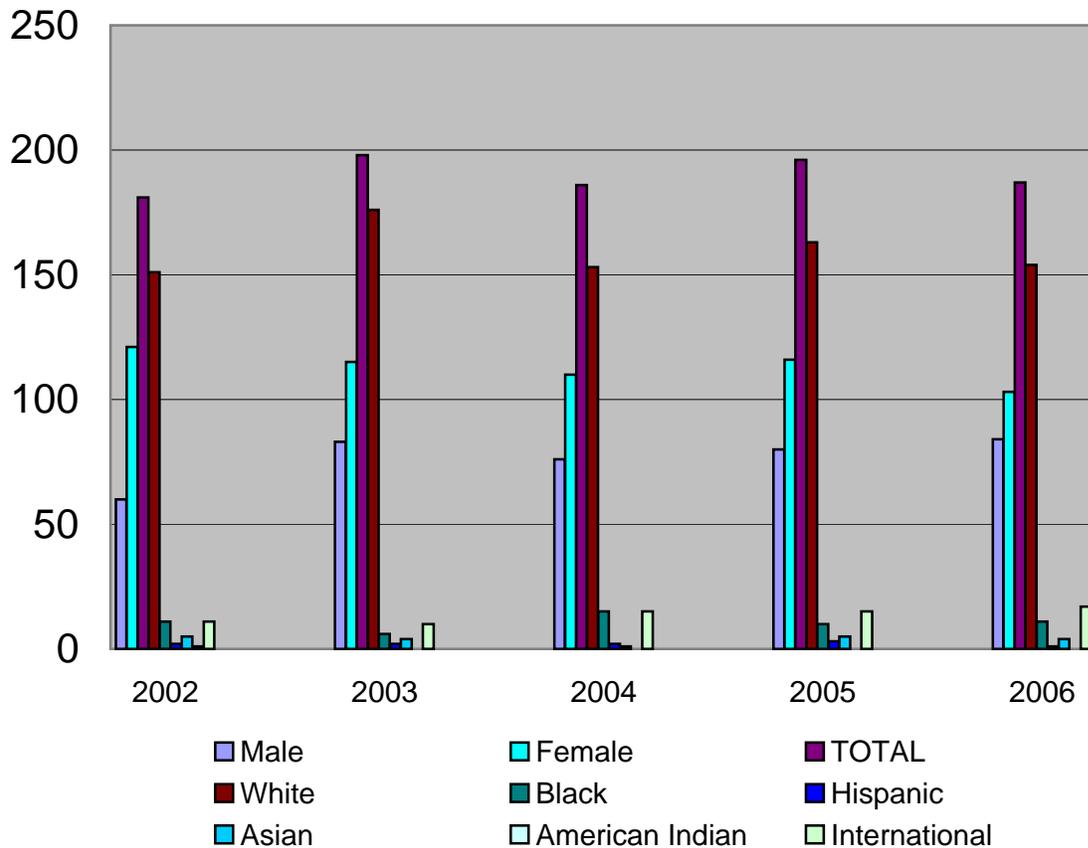
**TABLE 3. STUDENT PROFILE, MATRICULANTS
FALL 2002 TO FALL 2006**

REYNOLDA CAMPUS PROGRAMS

Year	Male	Female	TOTAL	White	Black	Hispanic	Asian*	American Indian	International#
2002	60	121	181	151	11	2	5	1	11
2003	83	115	198	176	6	2	4	0	10
2004	76	110	186	153	15	2	1	0	15
2005	80	116	196	163	10	3	5	0	15
2006	84	103	187	154	11	1	4	0	17

*U.S. Address, Asian Ethnicity

#Non-U.S. Address, Ethnicity not checked



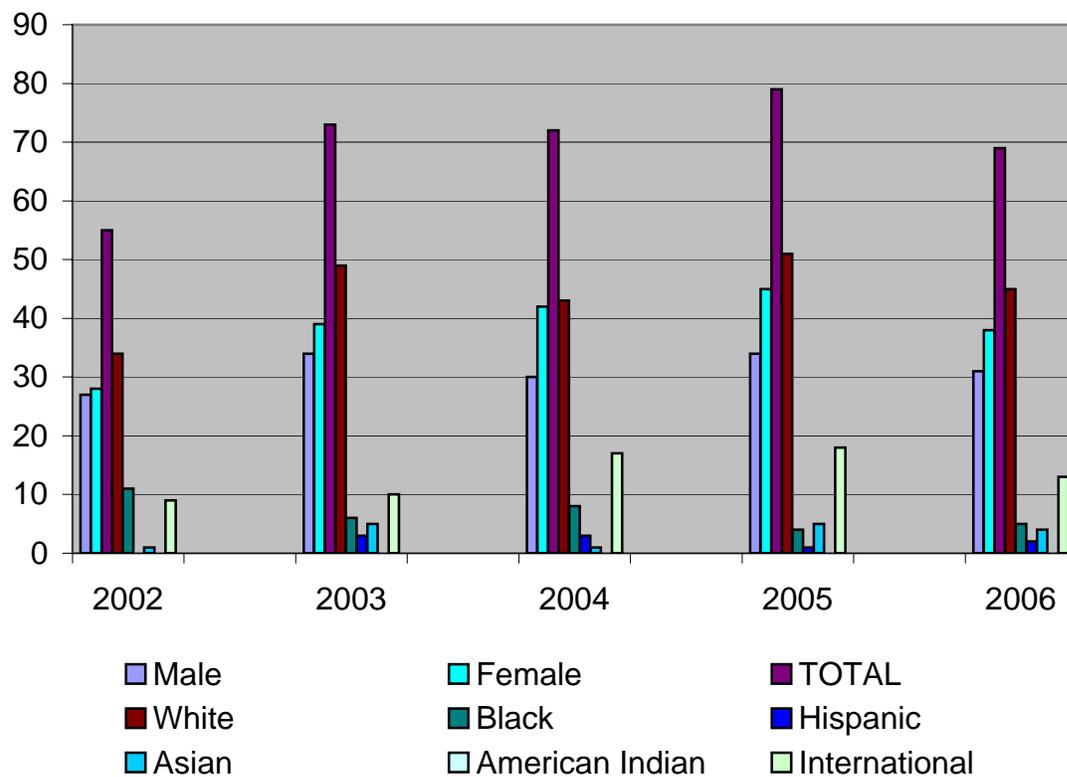
**TABLE 3 (CONT). STUDENT PROFILE, MATRICULANTS
FALL 2002 TO FALL 2006**

BIOMEDICAL SCIENCES PROGRAMS

Year	Male	Female	TOTAL	White	Black	Hispanic	Asian*	American Indian	International#
2002	27	28	55	34	11	0	1	0	9
2003	34	39	73	49	6	3	5	0	10
2004	30	42	72	43	8	3	1	0	17
2005	34	45	79	51	4	1	5	0	18
2006	31	38	69	45	5	2	4	0	13

*U.S. Address, Asian Ethnicity

#Non-U.S. Address, Ethnicity not checked



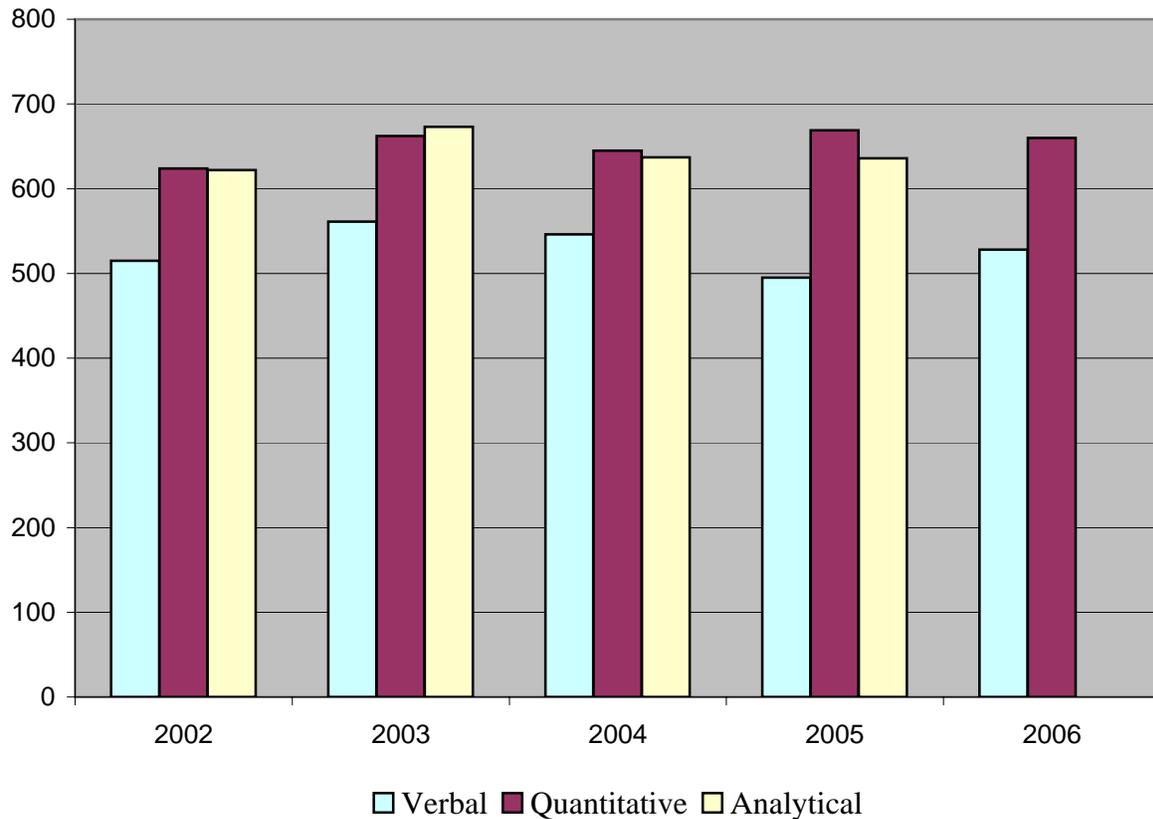
**TABLE 7. STANDARDIZED TEST SCORES FOR MATRICULATED STUDENTS
GRADUATE RECORD EXAMINATION (GRE) SCORES**

REYNOLDA CAMPUS PROGRAMS

Year (Fall)	Verbal	Quantitative	Analytical
2002	515	624	622
2003	561	662	673
2004	546	645	637
2005	495	669	636
2006	528	660	5.21

National mean all takers:

2000-2003	470	598	4.2
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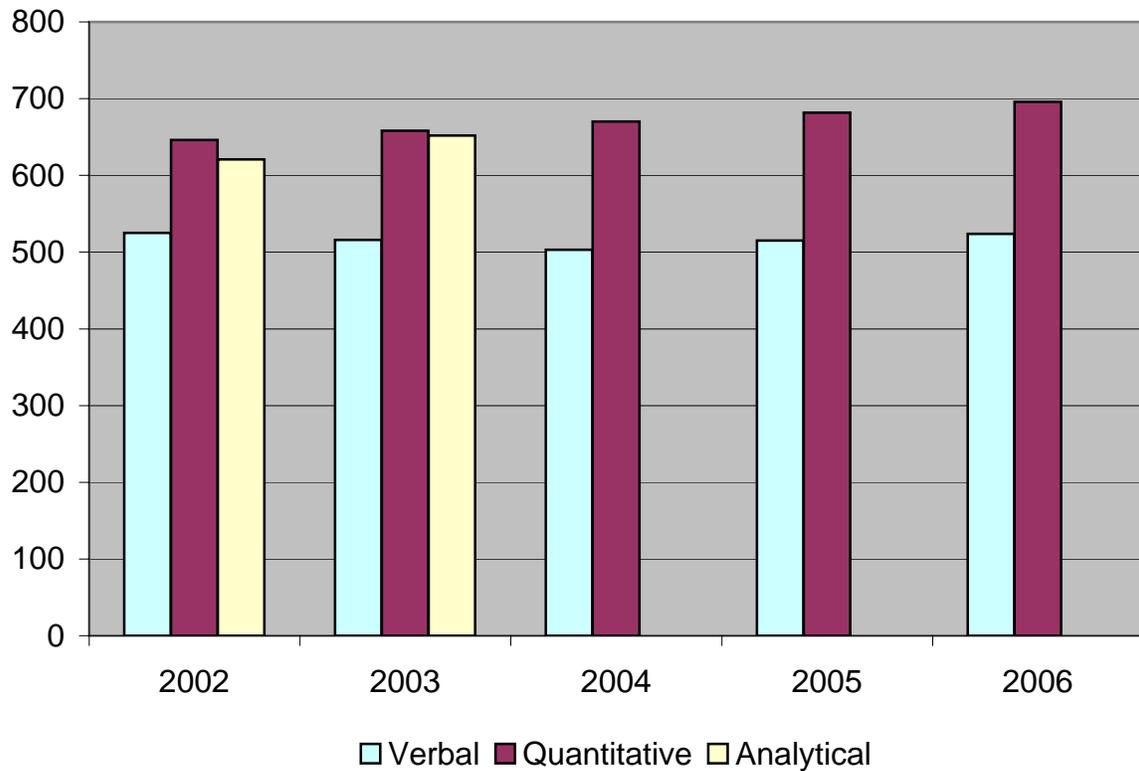
**TABLE 7 (CONT). STANDARDIZED TEST SCORES FOR
MATRICULATED STUDENTS
GRADUATE RECORD EXAMINATION (GRE) SCORES**

BIOMEDICAL SCIENCES PROGRAMS

Year (Fall)	Verbal	Quantitative	Analytical
2002	525	646	621
2003	516	658	652
2004	503	670	4.60
2005	515	682	4.40
2006	524	696	4.40

National mean all takers:

2000-2003	470	598	4.2
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**TABLE 7 (CONT). STANDARDIZED TEST SCORES FOR MATRICULATED STUDENTS
GRADUATE MANAGEMENT ADMISSIONS TEST (GMAT) SCORES**

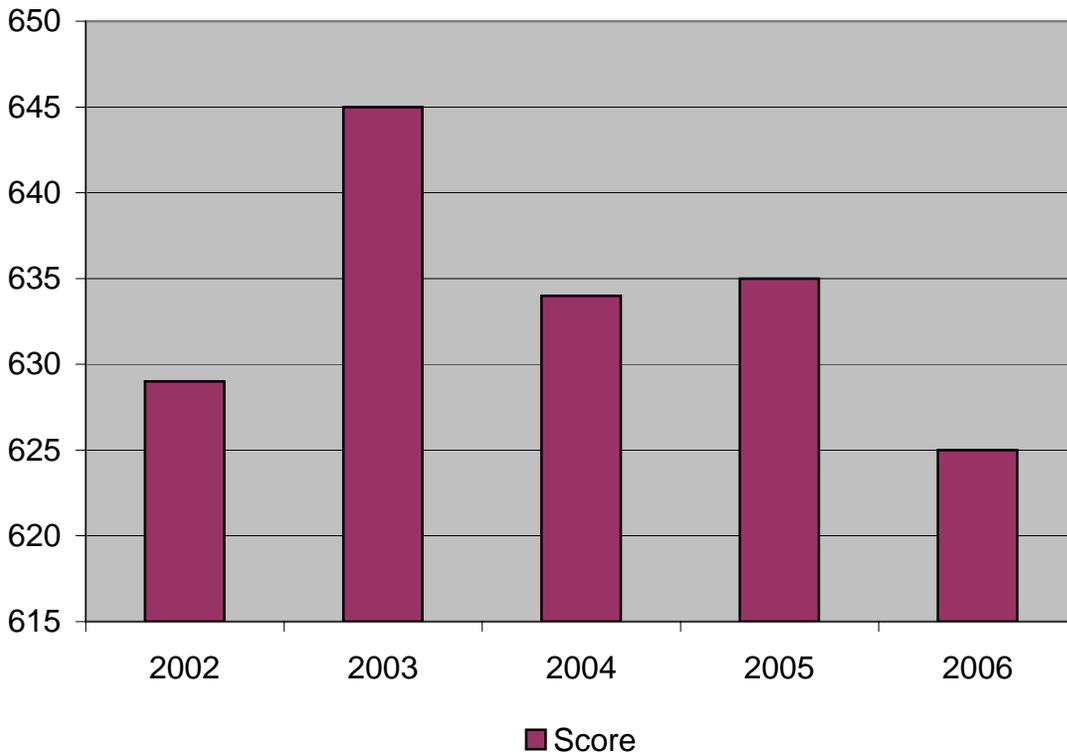
ACCOUNTANCY PROGRAM

Year (Fall)	Score	(%)*
2002	629	(80%)
2003	645	(81%)
2004	634	(79%)
2005	635	(80%)
2006	625	(76%)

National Mean (50%), all takers:

2000-2002 528

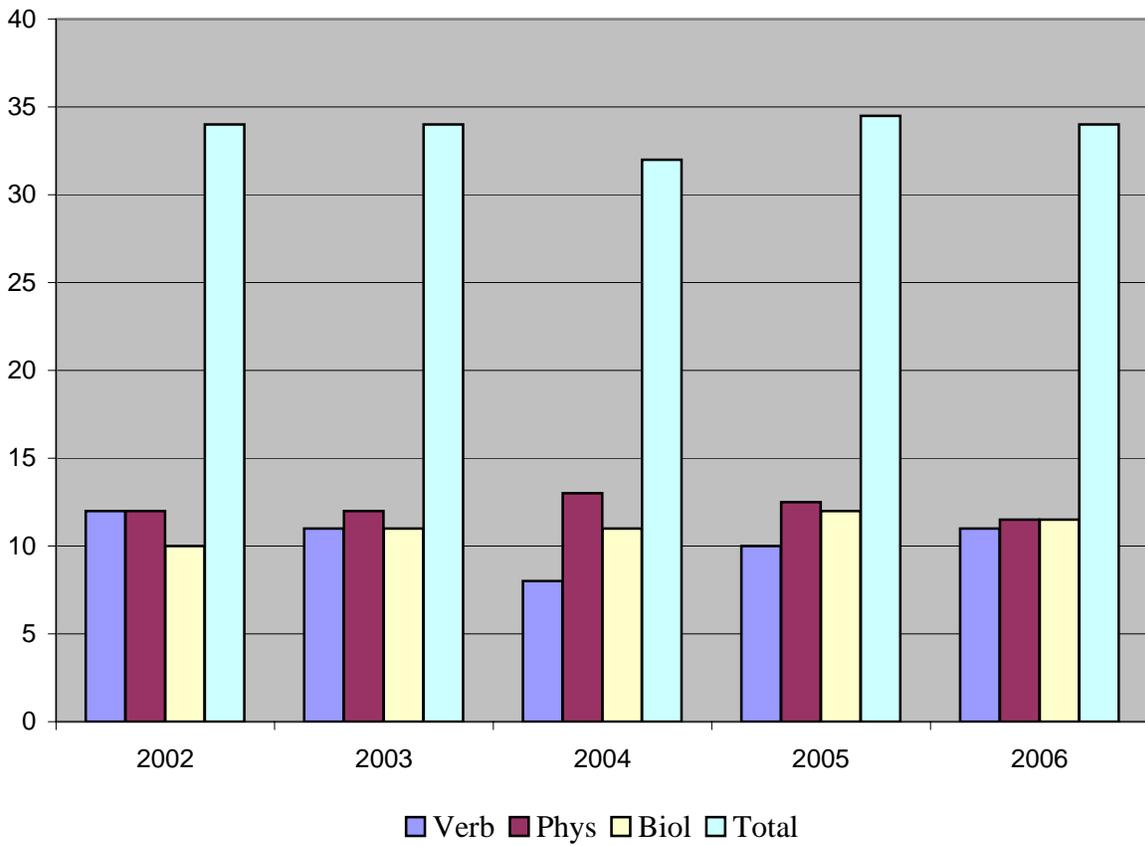
*Percent of examinees scoring lower than stated score



**TABLE 7 (CONT). STANDARDIZED TEST SCORES FOR MATRICULATED STUDENTS
MEDICAL COLLEGE ADMISSIONS TEST (MCAT) SCORES**

MD/PhD PROGRAM

Year (Fall)	Verb	Phys	Biol	Total
2002	12	12	10	34
2003	11	12	11	34
2004	8	13	11	32
2005	10	12.5	12	34.5
2006	11	11.5	11.5	34

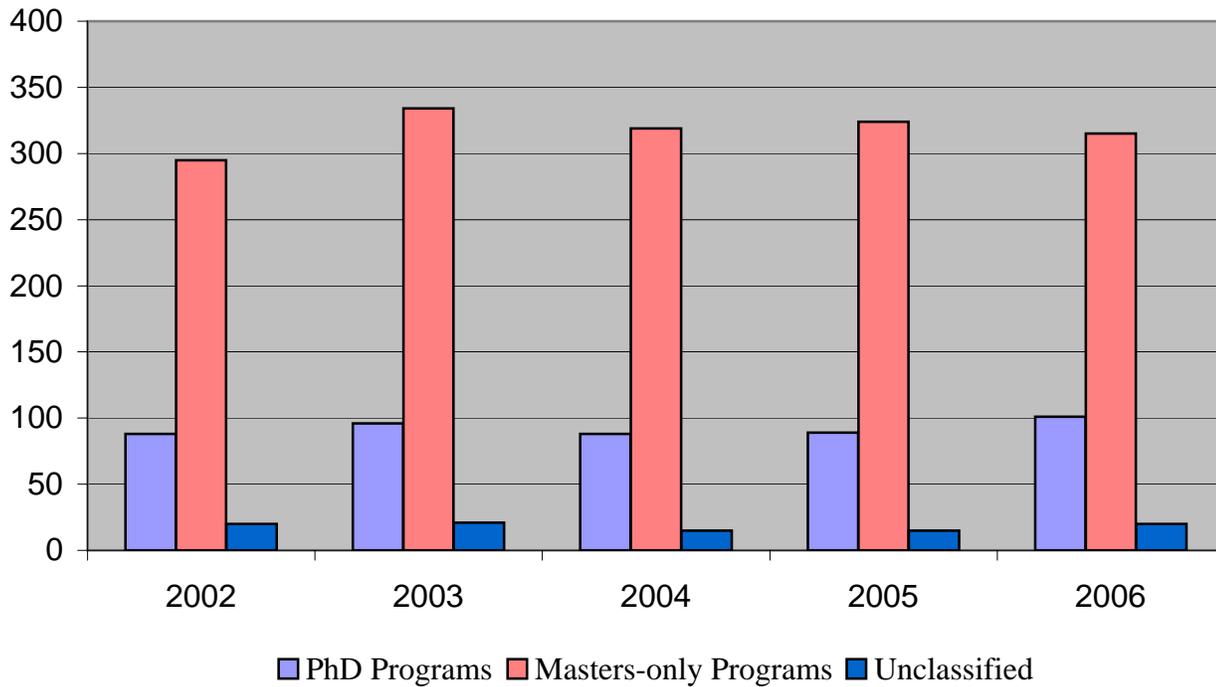


**TABLE 8. STUDENT ENROLLMENT
FALL 2002 TO FALL 2006**

REYNOLDA CAMPUS PROGRAMS

	2002	2003	2004	2005	2006
PhD Programs	88	96	88	89	101
Masters-only Programs*	295	334	319	324	315
Unclassified	20	21	15	15	20
TOTAL	403	451	422	428	436

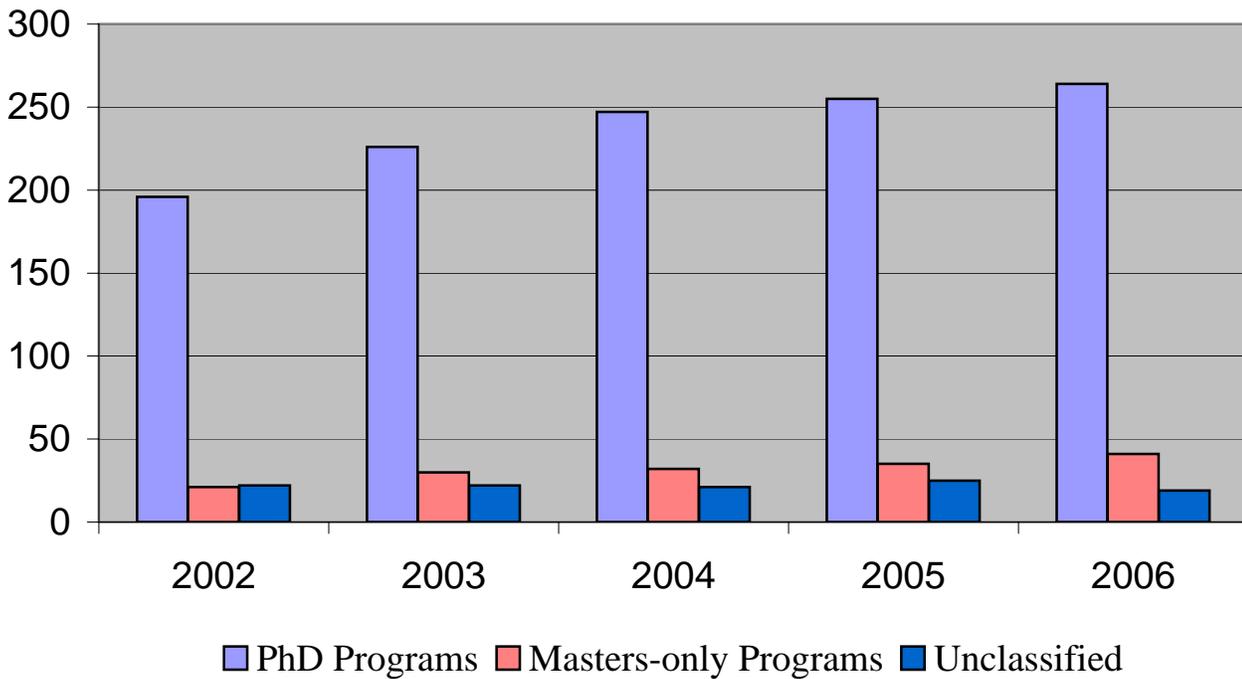
*Masters-only Programs do not include 4th year Accountancy students



**TABLE 8 (CONT). STUDENT ENROLLMENT
FALL 2002 TO FALL 2006**

BIOMEDICAL SCIENCES PROGRAMS

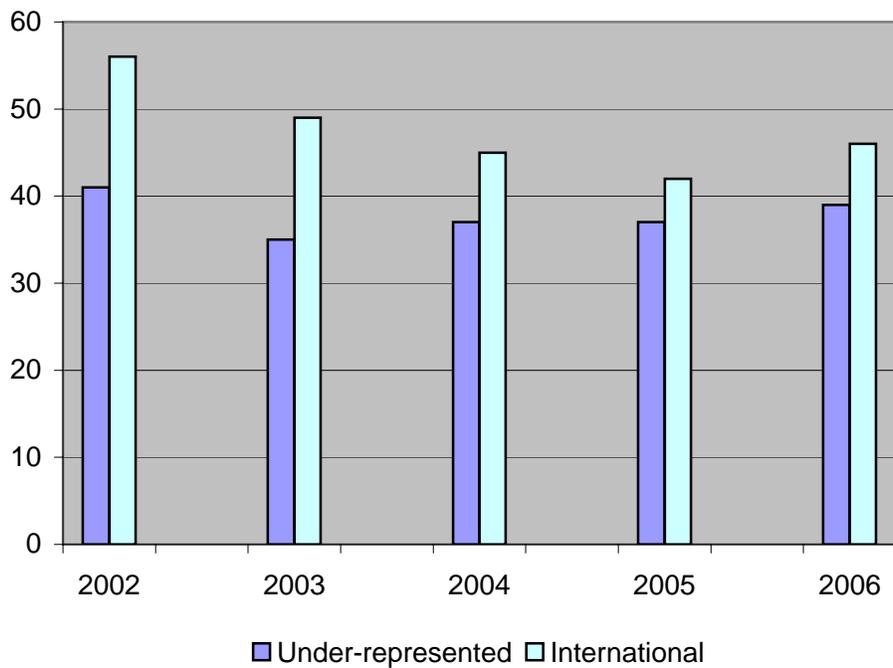
	2002	2003	2004	2005	2006
PhD Programs	196	226	247	255	264
Masters Programs	21	30	32	35	41
Unclassified	22	22	21	25	19
TOTAL	239	278	300	315	324
TOTAL (ALL PROGRAMS)	642	729	722	743	760



**TABLE 9. STUDENT PROFILE, TOTAL ENROLLMENT, DEGREE-SEEKING STUDENTS
FALL 2002 TO FALL 2006**

REYNOLDA CAMPUS PROGRAMS

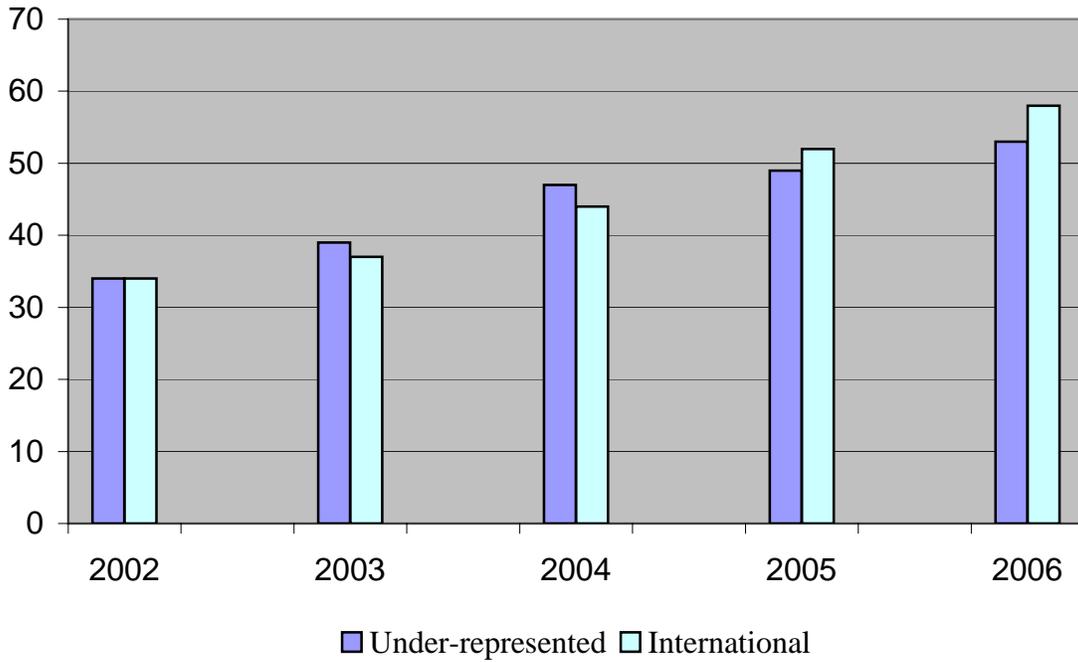
	Under-represented	International
2002	41	56
2003	35	49
2004	37	45
2005	37	42
2006	39	46



**TABLE 9 (CONT). STUDENT PROFILE, TOTAL ENROLLMENT,
DEGREE-SEEKING STUDENTS
FALL 2002 TO FALL 2006**

BIOMEDICAL SCIENCES PROGRAMS

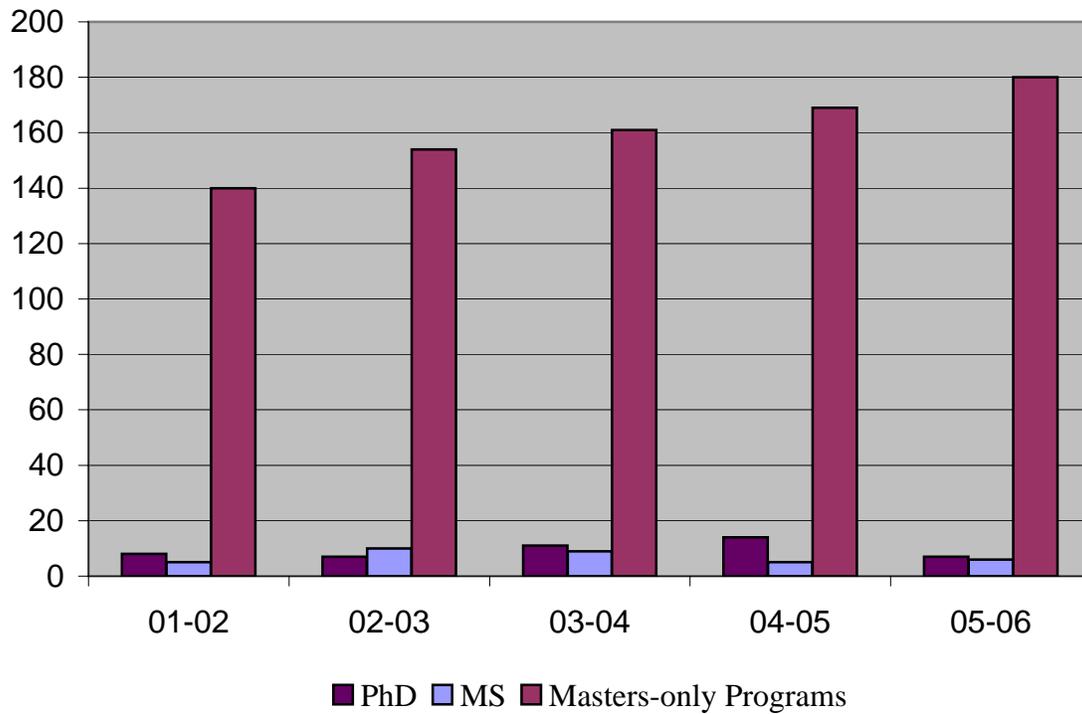
	Under-represented	International
2002	34	34
2003	39	37
2004	47	44
2005	49	52
2006	53	58



**TABLE 11. DEGREES AWARDED
2001-2002 TO 2005-2006**

REYNOLDA CAMPUS PROGRAMS

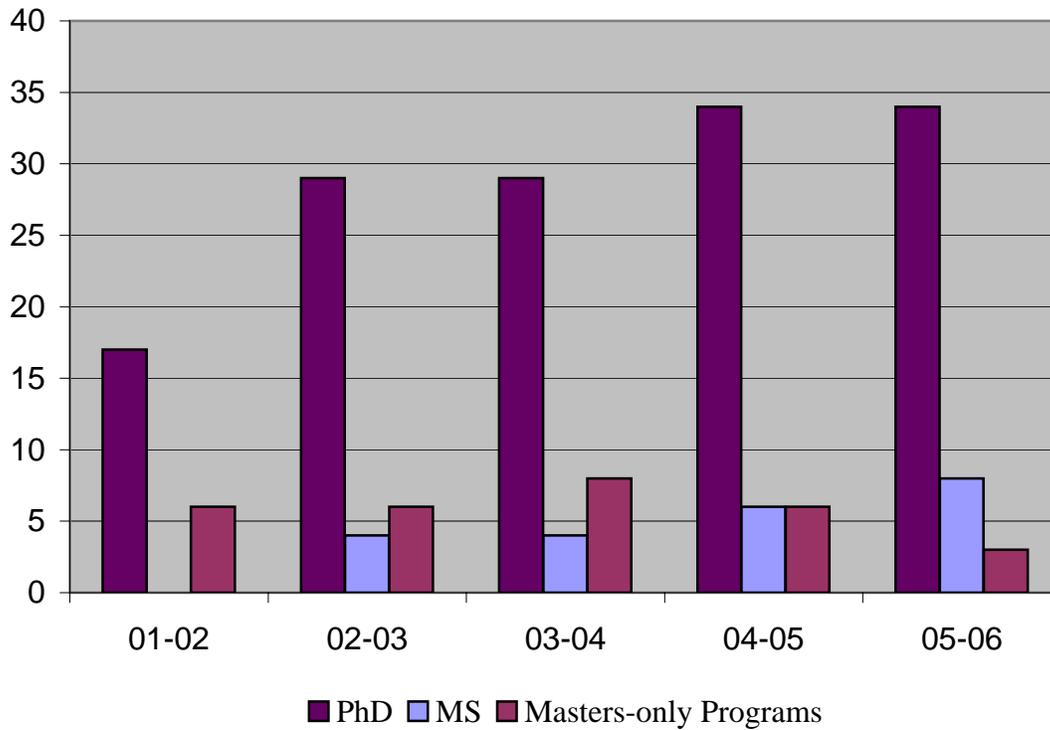
	01-02	02-03	03-04	04-05	05-06
PhD	8	7	11	14	7
MS	5	10	9	5	6
Masters-only Programs	140	154	161	169	180
TOTAL	153	171	181	188	193



**TABLE 11 (CONT). DEGREES AWARDED
2001-2002 TO 2005-2006**

BIOMEDICAL SCIENCES PROGRAMS

	01-02	02-03	03-04	04-05	05-06
PhD	17	29	29	34	34
MS	0	4	4	6	8
Masters-only Programs	6	6	8	6	3
TOTAL	23	39	41	46	45



**TABLE 11 (CONT). DEGREES AWARDED
2001-2002 TO 2005-2006**

ALL PROGRAMS

	01-02	02-03	03-04	04-05	05-06
PhD	25	36	40	48	41
MS	5	14	13	11	14
Masters-only Programs	146	160	169	175	183
TOTAL	176	210	222	234	238

