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Report of the Sutvel cf Howard Oniversity：The Graduaté Sckool and Selected＇Ph．D．Erograns． Office of Bducation（IAEM），Hashingten，D．C． 77 115p．

EP－\＄0．83 日C－$\$ 6.01$ Plus Postage． College ddission；Curriculna Evaluacton； ＊Departients；＊Doctoral Ericgrans；Eguipuent Evalnation；Faculty，Horkioad：＇Federal Goyernment； ＊Graduate Stody；保her Educaticí Library Pacilities；＊progras Evaluation；School Surveys； Student Pinancial Nia ＊Howard Dniversitq DC；＊institutional Evaluation

## ABSTBACT

Results of the Office of Education＇s Burean of Eigher and Continuing Education＇s inspecticn cf Howard Oniveisity＇s Graduate School and the Ph．D．progran are presented：thé inspection was performed by conducting a surveq of the adainistratice staff，the faculty，and student body，and by examining rélevant facilities； laboratories，equipment documents，reports，and ifrrarics．The 11 Ph．D．piograns reviened vere：African stứes and research prograns， history，political．science，sociolegy，English，mathenatics，physics and astronony．chenistry，zoology，physiology and bicphysics，and pharmacology．Despite inprovements in the frograns，it is concloded that there still exists nreven support services，a need in several départments foir adaitional seniór faculty，a lack cf sufficient student financial aid；a need to better develof the library，a need for additional modern equipment for the bicusciences；and a peed to give the Graduate＇School more authoriti，in all fhases of the aduissiohs process．（SPG）

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In recent years the Office of Education's Bureau of Higher and Contifying Education has hatd the responsibility for carrying out the añual inspection of Howard Univessity as required by Congress since 1928. Under Public, Law 70-134. The inspection method ądopted has been to conduct an in-depth survey of one particular aspect of Howard University's educational program each year rather than attempt'to inspect the entire University annually: Teams, comprised mostly of Office of Esucation professionals, sperid several days at the University meeting With members of Howard's administrative staff, its. faculty, and student body to obtain a rounded view of the area being inspected. In addition, relevant facilities, laboratiories, equipment, documents, reports and libraries are examined in this.process. As a result of this procedure, a.report emerges which, in large measure, reflects the views of all those involved.

The Office of EducaElion has carried out the following, inspections of Howard Universicty during the last three years: Student Financial Aid Program (1973); the International Education Program (1974); The College of Medicine (1975):
This year's report is focussed upon the Graduate School apd. the Ph.D. programs. Since a similar report was prepared by an DE-team ten years ago, it mas decided to review the progress Fiade during the intervening years by, the University in furthering advanced study.

Ten'years ago the dactorate was offered in eight different areas. Today le is possible to work toward that degree in some 22 areas. Since some of these areas have not' yet produced doctorates, it was decided to select representative Ph.D. programs from the yarious Academic Divisions which have produced one or more doctorates and wich have several candidates near completion of their work." In all some eleven Ph.D. programs are revierred In this report. Most of these programs are well-establisfied departments which have graduated studeats with the doctrorate . $A$...; for many years.

The inspection team capsisted of of troe of Education professionals with training and experience in the pields covered. : Those professional were assisted by anj butside consulfant, Dr. Dayid Hanlon; Professor of Biochemistry, Dartmouth College Schoof of Hedicine, whg inspected thosee Ph.D. programs related
$=$ to the medfaci field. Education who has been responsible for the doofdination in recent years of these annual reports and was resporsible for the overgli coordination of this report... As in the past, his educational and editorial explertise made a. significant cantribution to the total, inspection. Dr. Richard Jorgensen of the Office of Education gave him special assistance.
The inspection team is appreciative of the fine cooperation given by the administration, faculty, and students of Howard Oniversity. In particular, we wish to thank President James E. Cheek and Vice President for Academic Affairs Lorraine A. Williams for their encouragement to this particular inspection. Further, we wish to aeknowledge the specific and direct assistance provided by Dr. Edward Hy Hawthorne, Dean of the Graduate School of Arts and Sciences and Dr. Charles A. Asbury, Assiociate Dean of the Graduate School for icademic Affairs.

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## AFRICAN STUDIES AND RESEARCH PROGRAM

## I. Beterminants of the Program (Direction)

Recognizing the need for greater Snterdependence among nations of. the world in the pursuit of knowiedge, and with a comitment to international education as clearly exprestsed in a document prepared by the Comittee on International Edacation of the Graduate School apd the $=$ Division of Developrent and University Relations, of Ropard University in 1974, the Ph.D. Bepartment of African, Studies and Research Program is being redesigned and reorganized. The development of the African Studies and Research Progran at Howard as an interdilstipilinary prcgram emphasizing research design and planning' for probiern-solving investigations and for producing unique capability in the way of devetopment of programs related to international studies and in the general area of education is. now ander way.

## A. Philosophy/Mission

The utimate objective of the Program is to help revifalize, and make relevant to the African "peóples the educationat processes at-Howard University by projecting it into the forefront of the total culturai aspirations of the people in the contemporary perspectives of international . $r$ responsibilities. The Program is cognizant of, "and also enibraces the socfal, historicas, economic, psychologicat, and deological factors that connote the very essence of "Africanness" (Blackness) This "Africanness, besides the organfe and superorganic dimenstons atso envisions internationalism and humarism. The programts great poterntial in hontanism and
internationalism must life in its, dependence on its: cbjective human creativity" of African peoples' all over the world, specifically the African Continent, the Caribbean, and the Americas. In keeping with the true ideals of Pan-Africanism therefore; as well as freeting the objective needs . of aty Africán peoples; the Program does.not.tolerate white racism or black chaurinism; but fistead, it articulates the fundamental equality of all in respect to human personality and dignity. The Program therefore seeks to eliginate the old attitudes of historical submission and adjứstment of the African peoplẹs, It articulates the universal Identity, of the African peoples and identifies their comion problems and enàblep thereby the buitding of a world in which Africans from the continent, Afro-Americans here in the United States and, Afro-Caribbean's can live and share together as fel Yow human beings in a copmon setting.

## 1: Articulation

The Program sieeks to minimize the trend towards disciplinary specialfzation while emphiasizing vitality and scholarship. It séeks to enjargeresearch opportunities and teaching at Howard University and in Africa for faculty and students who are interested in the multiplicity of fields related to the situdy of Africa. The Program atso seeks to provide, promote, sce and coordinte the training of African specialists with competence in the analysis of chntemporary systems and processes an Africa for the development of models and projections which are to be used for comparative. analysis and public policy-orfented research that is relevant to Africa. Three goals will govern the Prograim over the next five years - 1977 -through (19) to raise the visibility of, 埋e program via positive results on and off tampus; (2) to develop Working elationships with other University units at Hovard University, based on academic respect; and (3) to establish a research component within the African Studies, and Research Program wich will demons trate the public pollicy of oriented research and planning by this Department as itt relates to Ăfrica;
?. Relevaricy
Howard Unjversity,' the Graduate Sahool and Department of the African Studies and Kesearch Program, are all accredited by the Middle States, Association of Secondary Schools and colleges and by the accrediting bodies of each of the professions for which training is provided, Nore than one-half of the nation's black population of physicians, latyers dentists, pharmacists, engineers and architects were trained at Howard University. The Department of African Studies since its Hitiation in 1964 with African Languages as a major component, then in ig69 with the U.S. Office of Éducation (Title VI, , M, D.E.A.), for support of African Languages and Area Studías Center, has reflected, a steady pattern of growth since 1969.

Beginning September 1969 , Howard University authorized the offering of the Ph.D. degree in addition to the Master of Ârts degree and transferred the Program from the College of LFEers Arts to the Graduate School. It has remained with the Graduate School sifce that time
3. Impact of, the Ph.D. Offering

Hith the-authorization of the offering of the doctoral degree in the

Depariment of African Studiés and kesearch Program, beginning 1969, the Department vas able to have its first graduate with the Ph.D. degree in 1979, and through "the academic year 1976-77, the record shows a total of 27 persons holding the Ph. D. degree from this Program. Thesere graduates haye all been gáfnfully employed as professors in universities here and. in other countries" while somé are holding "important government positions.

## 4. Department Cormitment,

Howard University, and the Department of the Africañ, Studies and Research Program, as a member of the Consortium of Universities in the Washington Metropolitan area, is committed to Fead in African Lancuaces and in Literature. At the moment, 10 different African Languages are offered and as time goes on, it is expected to offer even more. While doctoral students are required to be proficient in a Hestern Landuage they must also learn an African Language in order to be able to do their research., Hence, these African languages ape taught to both graduates and undergraduates at Howard University, to employees from the Department of State who are being trasned to serve in Africa as welt as from other agencies Thke AID, etc. Because there are not enough Linguists per se on the faculty; the services of native born Afrícans have been used to teach these languages. They are called Teaching Assistants. However, all of these Teaching Assistants are themseives Horking for the doctor.
 of philosophy. degree.

## B. Administrative Poffcies/Leadership

'x. The African Studies and Research Programis administered by an

Director, recommended by the Dean of Graduate School and Vice President for Academic Affairs, and approved by the Presjdent of the University for the Board of Trustees. He 'is athorized to direct the Program sending his. recommendations, to the Vice President-for Academic Affairs through the Dean of the Graduate Schopl. In keeping with the duties surroundingthe office of the Director, the University has established two positions 'of Program Assistants and that'of a Deppartmental Secretary.

The: University accepted the responsibility, for graduate instruction in the African area with au understanding from the Tniversity Consortium that additional support wili be provided for tye development of research and teaching in this Program as these are considered important facets of African Studies at Howard University.

This unit, supervised by a director of African Studies and Research Program, reports directly to the Graduate Schoo? of Arts and Sciences. '. It is responsible with the offic̣e of Admissions for the selection and admission of students entering 'the Program to seek the Master's or doctorate degree. Additionally, the 'Program!

1. Seeks to interface the Ph.D. degree program with other disciplinary departmental units;
2. Emphasizes its research component with the objective of establishing formal relationships" withtinterested pro-fessionak and international 'institutesiand-centers;
-3. EstabTishes a Certificate Program in the Department of
 African Studies and Research Program; and.
3. Encourages national and "international scholars' to associate with the African Studies and Research Program ass Research Associates.
;- It is clearly evident that the African Studies and Research Program has well defined objectives through the next five years as indicated in a Five-Year Plan, 1977-82. However, these goals need to be implemented beginning with the academic year 197i-1978.

The efficiency in carrying out. these planned projected programs will depend in large measure on the combined efforts of the Director and his faculty. It is hoped that, beginning with the academic year 1977-1978, a concerted effort will be made for the entire faculty to * work together so that the Program can realize maximum efficiency.
*Special programs will be/ developed between,"1977-1982 for research and development, in which the following areas will be highlighted:
a. Research on a Bibliography of current research studies;
b. Preparation of a Directory of Grants available for Research Proposals;
c. Community Resources (student \& faculty projects);
d. Employment opportunities - setting up a directory of firms, agencies aid other institutions with employment opportunities for the graduates of the African Studies and Research Program; Community Requirements - Determination of local community requirements in terms of: special educational programs, materials, reference materials, radio and television i programs;
f: Compenity Education - (1) Preparation of self-instructional language materials of basic courses tn Africañ languages that can be used for ondependent study by facuity or

- students preparing for, fie7d trips, othere corleges or unit
 or private industry with offrese in Africa. These courses should include programmed materials with recordings that ćan be copied and distributed on request. Priorities for preparation of materials will bé úpported by cémmunty requifements putijured above; with modifications in terms of national requirements'.
Research proposalso presented by the stúdents wimprovide a medfum for initial discussion of research praposals at the regular seminars established for this purpose, and at which time, all interested persons, especially soctal scientists, and member of government and other organjzationtconcerned with development and pollcy are welcome to attend.

In addition to thése regular program seninars, specialized workshops "and conferences wils be held to disseminate resedrch findings in an effort to promoteknowledge of specific areas of deyelogment policy ande so stimulate important further research.

The Ḍepartment of the African Stufies, and Research Program has ad-:. mitted one doctoral students, over the past 4 yeats, than orginalily

- planned. There have not bean, therefore, enough full-time professors to "instruct and supervise the work of the doctorai students. . In the area

Of economics; for example, for the past four years the Department has had only the services of a half-time Assistant Professor, while it Anthropology, for 2 years the Department has had a Visiting Professor half-time and for the last two years, a Visiting Lecturer. The Program needs a full-time professor in these two fields"as well as a full-time staff of qualified professors in all the other areas, i.e., Linguistics, Sociology, Aistory, Bolitical Sccience and Literature. It is believed that the Program is understaffed at the present time, but, with the present salary scale as established, it is difficult to attract top-ranking scholars to the Program,

In talking with the Director of the Program, it was obvious that he has definite ideas regardind how he wants the African Studies and Research Pregram.operated. He evidently is a strong administrator and is determined to achieve an exemplary program which can serve as a.model. Apparently, he has the support of the University administration, because he is in the process of completely revamping the Program's' faculty, reducing the number of graduate students, and implementing research requirements for both faculty and students.

He is concerned with the 10 w percentage of tenured faculty, a facrity. staff ratio that was about 9 (for all graduate students), the dearth of research and published writing by the faculty, and the physical facilities which house the program.

Faculty recruitment is somerhat of a problem, but it is anticipated
that the full complement will be added by the time schoot opens in fall 1977.

## C. Faculty.

The faculty of the African Studies and Research Program is under-: going a significint change.: Quring the 1976-77 academic year, the faculty totaled 13, including the Director, 2 full professors, 1 wisiting professor, 1 associate professor, 3 assistant professors, 2 part-time
 cluding the Director, were tenured. Because the Director is in the process of developing a comprehensive plan for the Progran wich will require that all faculty have acquired a terminal degree and have published extersively, only six (6).of the 13 will be, jeturning in 1977 \% as̀sistant professor, 1 visiting professor, añd 1 assistant professor on a one-year appointment).

Nine faculty members have the Ph.D. or other earned equivalent degrees: Since Howard. University is the only-irstitution which offers a Ph.D. in African Studies, the program faculty, while required to have a terminal. degree, may have as their specialty area such fields as econorics, economic development, history, ete., but must have written extensively on Africa and hąve acquired expertise in a foeus area on Africa through research and be ablẹ to speak an African language. "During the year the facuity, published 1 article, 1 book, submitted 4 articles and books for publication, and made 9 oral presentations. In addition; the Program had a research
grant in process ( $\$ 135,717$ ) \& and submitted 4 research proposals.
For the 1977-78, academic year, it is anticipated that each' of the projected 15 faculity members will have acquired the doctoral degree, and will have experience in research miting, will be able to speak at least onè African language and be employed fủll-time.

The Director is of the opinion that the current, average of.a $9-$ somester-hour teaching loads with some äs high as 12, has hampered the research of the faculty and lessened their accessibifity to the studerfs. Planib. are' being made to reduce the teaching ioad to an average of 6 hours'over the next tro years: Currently, fhe Director does not teach, but he hopes to renedy this by rotating the Directorship.

It is projeeted that all faculty menbers in the African Studies Research Progräm will serve as Ph.D. advisors and will supervise student dissertations. Each professor is. expected to supervise at least 5 stidents, efone of whom should be a. doctoral candidate.

In 1974, the African Studies and Research Program printed. "Seminar Papers on African Studies": (Edited by SuTayman Sheih Híyand), inficheentains papers written by the faculty. Hith the exception of this docyents very íittle research has been done by the faculty. This fact may be attributed to the heavy teaching load and number of students supervised by each professor. The lack of research by professors is recogitized as a deterent to the program. Thus, the Birector is actively recruiting new faculty members who have published in a number of"areas.

There were eight comittees for 13 faculty members untif 1976. The Director found attendance at assigned comittees to be impossible and responsibilizies not-carried out by the conmittees. These eight were the Executivè Comittes (which is now defunct); Admissions; Comprehensive , Examination Compittee; Fellowships and Researcingrants; Curricuium; Program; Appointment Promotion; and Tenure. Hext year (77-78) he hopes to reduce the number. of committees. The power of the, Executiye Committee was transferred to the tenured faculty in 1976-77. Herbership en comittees is attained by appointment by the oirector;

Faculty members are encouraged by the firector to make themselves easily accessible; for consultations, to böth the Director and the students of the Progran. Min ln anticipated lower teaching load, accessibility of faculty is expected to improve, as the Director feitls that close consultation between, faculty and students is very important. Since the Director is extremeTy enthusfastic regarding excellence for the Program, he stated that faculty comitment to the program must be .
 In the Howard Program; will be able to go on and estabilish similar pnograms "in other higher education institutions and in government agencies.
A. Of the 90 graduate students enrolled in the program in 1976-77, 35 fere enrolled in the Ph.D. prograja. The majority of the doctoral stúdents ( 1.9 ) were from foreign countrles (Nigeria; 5 ; Fgypt, 4 ; Congo, Hest Africa, 1; Ethiopia, $2 ;$ Britain, 1; Martinique, 部rench Hest Indies, 1 ; Iran, T; Sierra Leone, Uest Africa, 2; Ghana, West Africa, 7; añ South Africa, 1.)
 24 of the total. Some of the decteral candfectes are iractive or are -pursuing thejr degree on a part-t土ace basiṣ. In actordance with recent departmentail poitcy, students will be asked to make a statement of intention regarding the expected completfon of their work, or withdraw from the program.

The objective is to reduce the total number of students matriculating for the doctoral degree in African Studes and Researck.

The enrollwent of students over the next three (3) years will be stabilized to a maximum of sixty ( 60 ) students:

$$
\begin{aligned}
& \text { H. A. Students }-\cdots-20 \\
& \text { Ph.O. Students }-\cdots \quad 20
\end{aligned}
$$

=This will be accomplished by having students enroll in the Program only once a year - during the Fall semester - and only one out of every thre openfing which folfow gaduation of present 5 tudents will be filled until projected total is establishet.

Candidates for Degrees
Students at the doctoral tevel will be requitred to complete als.

## 12

requirements for the Ph.D. degree within three (3) years after completion of their comprehensive examinations; these stipulations will be followed. strictly over the next three years. Students will also be-a a llowed only two (2) failures of the comprehensive/qualifying examinations. The sêcond failure will autoratically terminate the student's association with the Program, as stipulated by the Graduate School policy. This criterion win be strictly followed.

## C. Aumissions Policies

Students graduating with the K.A. degree from the Program wil not
 * carefully on the basis of their academic preparation, future career plans and goals: and corparaive standing to other non-Howard University sraduates seeking admission before being allowed to enter. Into this second degree program,

Objective: to fnfuse new students and new ideas into the Program and to inçease the total number of terminal H.A. degreés at Howard.

Applicants for admission first pass through the ceptral admissions office of Howard Uhiversity. Afterisatisfying the general requirements, applications are sent to the Director's office where the department admissions committee reviews all completed applications. The Director knows of no quota for U.S. yerșus foreign students, but admịts that perhaps the central University admissions office may take citizenship into consideration.

## D. Student Aid

The Dirictor, ideally, fould like to see each doctoral student receive financial as istance. However, monies are not avaHable for such an undertaking. Funding beginning HA students with University fid is presenty a priority. Ph.D. students must look to public and private funding agencies for assistance. The Director, 'personaTy, its influencine and helping those Ph. D. students working op their dissertations to find outside support. 等.

To receive an award, the student must demonstrate finencial need asi'well is academic excellence ( 3.5 GPA ), The financial assistence provided to the Program by the لِniversity includes four graduáa assistants receiving. $\$ 4,200$ each, seven teaching assistants receiving, $\$ 4,200$ each, three research assistants receiving $\$ 7,150$ each, two $H B F L$ fellowships totalling $\$ 8,744$ and one conference award fellowship for $\$ 15,000$. Jwo of the graduate assistants are $M A$ students while all of the other awards went to Ph.D. students.

The Director feels that $\$ 4,200$ is inadequate assistance for a stưdent fiving and attending a school in Hashington, D.C., where the cost of living is extremely high.
-1II. Curriculum/Program
A. Course Offerings.

- Ph.D. students take a minimug of 42 credit hours; 9 hours in African Studies seminars, 30 credit hours related to Africa distributed between two other departments, and credit hours for Resefrch Seminar I. A, residence requirement and a knowledge of a language apprepriate tơ the area of
specialization is mandatory in addition to knowledge of a world lanquage. A dissertation on an African topic based on field work in Africa is required. Departmental assistance is proyided for local supervisory. arrangenents .

The Director feels that the course offerings were well suited to the Program's, goals of training a cadre of academicians able to set up similar. programs in other academic instidytions and governmental units. However, he feers that the teaching method deft a lot to be desired. The standup lecture course should give way to a discussion typeatmosabiere.

## B. Experiential Learning

 is attempting to institute ant internship at the sith level. ${ }^{\text {a }}$ /The field experience in Africa, the availability of African lecturers on campus, scholars and practioners, and the African diplomatic community in D.C. serve as experiential learning for the students.
C. Research Options and/or Requirements

Each PG.D. student is required to completé a dissertation of publishable quality on an African topic based upon field work in Africa. The Program: provides faculty and outside assistance in teaching the particular language prior to the field research as well as general supervisory. arrangenents.

The research requirement, appears to be realistic and adequate in 1ight of the particular goals of the Program and interest of the students, many, of whom are native ffricans.

## D. Evidence of growth/godification of the Program

In order to demonstrate a viable program with great potential, the Program is reducing the number of sturdents enirolled at the MA and Ph.D. leve1. By increasing the number of faculty, the Director sees a smaller student/faculty ratio. He antict屋tes doctoral studerts turning out dkssertations of quality and becoming publishable books. After this strengthening period, he hopes that the program will attract ronies from African countries private and public agencies̀ ; and University funds which will then aifow the number of faculty and students to grow.

The Director is cognizant of the negative image that has teen projected by the program due to its lack of productivity. 'But, the University has no objection to funding the Program as long as it is producinc trained academicians of high quality.

## E. Problem Areas

Space is a problem for the programı. With an addition of two professors and a reduction in the number of students, the University seems wiling to watit to see the progress of the program before the program is moved to larger quarters.

The Howard University Depariment of History in 1976-77. consists of . 23 full-time ánd four part-time faculty, and an enrollment of 77 students in pursuit of advanced (M.A. and' Ph.D.) degrees in history.: A vigorous, knowledgeable and highly articulate Chairman of the Department, Dr. Joseeph E. Harris, and a distinguished veteran Director of the Graduate Program, Dr, Martha S. Pytney, have sought to capitalize upor a timely and significant Ford Foundation grant (which served, for 1971-73, as a pivotal period in othe deveippment of the graduate history program at Howard) by bringing about changes in the character, scope and availability of curricular offerings at Howard, and by working to emhance the quality of the degree programs in historyat the University. Currently the Department of History' offers the M.A. and Ph.D. degrees in the history of the United States, Africa, Moderf Europe, East Asía and Latin Arierica/Caribbean:

The Howard University Department of History was established in 1913 and the Ph.D. program-one of two in history at traditionally black institutions of higher education the United States--was inaugurated in 1962. The Department's ffirst Ph.D. was awarded in 1966; by. 1974 it had awarded as many as ten degrees. In the 1975-76 academic year there were three recipients of the Ph.R. Currently there are 44 students enrolled in the Howard Ph.D. program, eleven of whom have been "advanced to candidacy.". The objective of the Howard University graduate progran in history is "to provide in' depth training in specialized areas of knowtedge and to sharpen the students' perception and use of the tools for historical research
and teaching." Guiding and supervising the graduate students in accord with this fundamental objective are Drs. Harris. and Putney along with five other members of the History. Department, which together constitute the Gráduate Faculty (formally éstablished in-1975-76). In offering candidates for the Ph.D. speciarization in the history of the United States, Africa, Moderín-Euroje, East Asia, or Latin Americà and the Caribbean, severai combinations of course clusters within the designated field may be used tom. concentrate on certain areas of interest; such as Afro-American, urban or comparativehtstory: The student is also givent the opportunity to "sample" courses in other departments and schools of the University, while the consortium of Universities in the Washington area allows the student to profit-from courses, library and other resources available at institutions of higher education and government installations in the kashington area.

The graduate program is administered by a Director, elected by the = Department of History from those faculty members holding the rank of associate professor or above. In 1976,77 there were among the history faculty (all eleven of whom possessed tenure), 8 assistant professors, 2 instructors and 5 lecturers; The primary duty of the Graduate, Program Director at Howard is to serve as a resource person for both faculty and students in the facilitation of communication regarding student records, admission requirements, major/minor course distribution; credit allocations, graduation requitrements, current regulations and policies, proper procedures and deadlintes e-The Graduate Program Director oversees the adnission of
students to the Master of Arts and Ph.D. pregrams. In general, admission requirements for the Ph.D. program are consonant with those estabilished for applicants to the M.A. program. Appltcants who have earned a bachelor's. degree or its equivalent are considered if they have completed an undergraduate major in history with a grade of $B$ or better and a cumulatize average of 2.7 or better. Non-històry major's may also Be considered if their average in the major field is $B$ or better and their cumulative average Q. $7^{\circ}$ or better. Students whose undergraduate training does not meet the above requirements or who have received degress from non-accredited schools may be granted provisional admission to the university for one semester, at the end of which students with such provisional'status may be considered for admission to the M.A. program ff they have corpleted successfully nine hours of course work and received favorable recommendations from the professors in whose courses they have registered. . Students who have done work beyond the B.A. degree" at another university are considered for admission to the M!'A. program if their level of performance has been satisfactory. Those students pursuing a M. $\dot{A}$. degree in history 2 howard must seek forma, $l^{\prime}$ admission to the Doctor of Philosophy program before continuing work foh the doctorate. Three letters of recommendation submitted with application for the Ph.D. progran tust come from Howard Univers ty faculty members. Students who have earned a M.A. degree in history at another university, or a Master's Degree in, a field other than history, are considered foradmission to the Ph.D program upon submission of proof that work completed.. for thein degree has been equivalente to requirements for the Master
of Arts degree in history at Howard, or upon completion those reguifements. Upon admission to the PhiD program each student is assjgned an academic adviser by the Director in consultation with the studeht and in consonance With the student's expressed field of interest. Students are expected to meet with their adviser at least once during each semester.

Students seeking a Ph.D. in history at Howard University must complete a minimum of 72 hours; which may include credit eathed at the master's ${ }^{\prime \prime \prime}$ level. Varifus factors, may make it necessary for $\frac{\tilde{V}^{2}}{}$ student to po beyond the 72 -hour minimum, such as the advisability of further training some area of fulfillment of a four-semester full-time residency requily prescribed by the Graduate council. Satisfactoty completion of cqursenork -is only one of several requirements for the oftorate. the sto dent must pass the qualifying examination (a writyon fimprehensive exameation), and fulfill the freign language requiremint prior to $\begin{gathered}\text { and ission to candidacy }\end{gathered}$ for the degree. An acceptable dissertafion and successful defense of it at a final oral examination complete the requirements.

In the Ph.D. programpllistudents rexe regitred to choose ondmat. field of specialization and three separate minor fields (two of which mustit be in history fields other than the major, and the other onfe of which niay be in an additional history field-iother than the flelds of specialization offered by the department- or in any one related discipline, in an area studies combination, or in any distribution of releyancé to the student's program. Such options for the thard minor provide flexibility in that they pormit students to spectalize further in history or to select courses df
interest from a variety of deparments. Twenty-one, hours constitate a major field and 12 hours a minor field, but additionai hours may be. : allotted a student depending on the number of hours he has earned in thesis. or dissertation writing courses. Content coursës exclude courses in methodologg, special skills, thesis and dissertation writing. Two seminar courses beyond the master's level are required. Upon application to the Chairman of the Départment anduyith the approval of the Director of the Graduate Program, à student may pursue indẻpendent study under a graciuate façulty member who agrees to direct the project for a maximum of 12 rouns: All students preparing a dissertation are required to énroli in çissertezicn writing. While no more than six credit hours in dissertation writing max be counted toward the degree, a student must continue to enroll in treacourse as long as he is using university facilities or receivigg regular supervision in the dissertation.

As part of the requirements' for the doctorate and before admission to candidacy a student must demonstrațe reading ability in twa languages approved by the Department. A.specific skill related to the student's research (sựch as compuțer language or statistic̣al analysis) may serve as a substitute for one of the foreign languages: Finally, for admission to candzdacy the .studeñt must pass a "written qualifying examination designed to test his (a) specialized knowledge of the subject matter., bibliography and impartant unresolved problems within, nifs major field, and (b) general competence in two minor fields of his choiçe. The examination is divided into three sections: one eight-hisur section for the major field and one four-hour,
section for each, of the two minor fields.
Given the above requirement for the Ph.D. and recorded details concerning the Department of History, its administration, faculty and policies; it is possible to conclude in. the spring of 1977 that the program is functioning quite well. The stated requirements for the Ph.D. at Howard University may be described as conkentional, reasobable for the participants engaged in the program, and suitable in the light of the institution's mission and historical development. The Ph.D. program in history is viable, fundamentally sound generally relevant to the expressed needs and interests of the historical profession. The products of the program-mostly young bilack Americans" but a fair number of foreign students and white Americans as well-appear qenerally to have had a good experiemce during the course of their (avgpage) five years of work for the degree:

Extended interviews with the Chairman of the Department, the Director of the Graduäte Program, mèmbers of the history faculty, current and previous (recent) enrollees in' the Ph.D. program at Howard have yielded the following generalizations, observations, recommendations concerning. the program--its requirements, administration, achievements and promise.
7. The philosophy/mission of the Howard University history programfor all levels (undergraduate mājors, the Master of Arts degree program the Ph.D.' program) --shouid be more carefully thought through by membexs of the Graduate Faculty and artfculated in a clear, forceful statement reflective (a) of priorities in the profession (perhaps determined in consultation with the American Historical Assoctation and the Organization
of American Historians)s(b) of the unique and positive strengths" of the presently assembled facuity in the Department of History; (c) of the histöric mission of Howard University; and (d) of the challenge presented by the inexorable dekelopment of the university as a citadel of learning especially attractive te citizens and subjects of the Third World.
2. Administration of the Department and of the Graduate Programs presently rests in highly cápable hands. Policies for the Graduate Program are explicit, generally realistic and humane. They are also subject- to revision annually and are currently undergoing considerable rethinking. * The administrative assistance available tobrs. Harris and Putney is rendered by a number of young ladies whose cheerfulness, competence and diligence have contributed decisively to the reititively smooth operation of vital offices, the workload of which is considerable. The workload and demands upon the time of bothitirs. Harris and Putney are substantial if not excessive. Dr. Putney has a full teaching load, supervises the progress of several Ph.D. students, and has responsibility for general supervision of the office of the Grāduate Program. Professor Harris has teaching and seminar duties as kell as Ph.D. advisees and numerous cormittee assignments and general administrative responsibilities.for the Department of History. While both offices appear to be functioning. well, in spite of the heavy demands upon the leadership,, efforts should be made in the, months ahead to relieve Drs. Putney and Harris of a part of the administrative load: that has befallen them.
3. The faculty of the History Department may be described as com-
paratively young, generally well cualified and comitted to quality (albeit somerhat conventional) instrucsion and research. Teaching and committee i assignment loads may be too heavy. Hith only, seven of 26 in the department members the Graduate cFaculty, supervision of enrollees in the doctoral program may be considered to be uneven and problematical. Óne professor is supervising as rany as eleven students at yarious stages of their work tofiard the coctorate. The Ford Foundation grant of 1971 enables the Deparfment to strengthen its faculty resources--this effort to expand and "upgrace" tine histery feculty continues.

Fhile it cannct be said the ficculty roster presently contains the names of historians of rational prominence, a highily regarded faculty is being built.

The University viliz need to reexamine its recruitment and retention-of-faculty policies if it seeks to buite a firsi-rate Department of history. The strongest areas--United States, African and Caribbean/Latin 户merican history-hąve scte noticeàble gaps:. Hore could/should be done to strengthen curricular offerings in urban history, Acerican constitutional history, legai institutiens, vomen's history. The Departrent should do more to " strengthen its" already strong (and rost appropriate) ties with the Caribbean;recrutument of an instructor of Érazifian history oughe to be top priority for the Departrent. The addition of two or rore African specialists to the faculty would help to strengthen the already fine resources ayaflable in that area of instruction. The Departrent presently runs the risk of
spreading itself too thin. Its offerings in the areas of Modern Europe and East Asia are sporadic and propably unsatisfactory given evidence of the kinds of resources available in those areas at other universities in the Hashington area. Greater reliance on the consortium and what may be available through it in these important areas yould seem a logical alternative for Howard University's Department of History in the years ahead. Desired expansion and/or reinforcement of faculty resources in the areas of United States and black history, African, and Latin American/Cafibbean could justify the gradual phasing cut of pesources in East Asia and Hodern Europe at Howard University.
4. The enrollment of 40-45 students in the Ph.D. progrâm seems about right: manageable and challenging to the faculty and administration of the Uniwersity. The 44 presently enrolled represent a good mix, mostly black Americans, some foreign. There are about 8 white Americans presently enrolled in the program. Abput $15 \%$ of the enrollees are on leave from traditionally black institutions of higher education. ". (These are the more "mitur students). Between 15-20\% of applicants to the Ph.D. program are turned dorm; about $40 \%$ of those enrolled are "recruited" from traditionally black institutions in the South.

The students, interviewed in this survey generally spoke enthusiastically, $\because$ about the program. They felt it had been an intellectually rewarding, challenging experience. (At least one member of the faculty, however, felt strongly that the Ph.D. program needed to be more intellectually rigorous.) Instruction was good, research options appropriate, and opportunities 'were
exceptional--given the ayailability in Hashington of resources within the consortium, thè Libracy of Congress and the National Archiyes. There is some feeling that enrollment could be more geographically representative of the United States" as a whole--at present and in the past Americans have tended to come from the South and Southeastern Urizzed States. This may be partly the result of the Department's recruitment efforts that have tended to be restrićted to traditionally black institutions of higher education in, the South. The university would do well tof go bajond the U.S. South in its recruitment efforts: :

In contrast with Ph.D. programs in history throughout the country in the mid-1970s, the placement of. Howard University graduates has not been a terribly serious problem. Demand is still high for the products of the Howard University Ph.D., program--the tendency is for the young schdlars . to seeks and win placement in conventional teaching positions at collieges and universities as concerned aboưt affirmative action as they about quality instruction in history. : There have been some recent exceptions: (a) a 1974'graduate is now with the Smithsonian Institution; another 1974 graduate works for the U.S. Department of Agriculture; at lieast one Ph.D. candidate prosently works at the National Archives and plans to remain there upon conpletion of her Ph.D. requirements; a 1976 graduate is working 'full time as a Research Associate at the University's Hoorland-Spingarn Research Center. While the, graduates frem Howard have apparently jot had 2 serious problem securing jobs, the Department of tistory is wisely exploring other options for students outside of the traditional history
teaching positions at American colleges and universities:
Probably the most vexing problem facing the History Department is that of student aid. . Financial probigms of the students are very serious and may be the leading, factor causing dropouts. There arepresently about is fellowships available to first and second-year doctoral students-awards that were originally established with the ford foundation grant and which are now sustained by HEH füding. There are assistantships also avaizable-but to obtain"an assistantship a student must be enrolled in courserork (whether he or she needs the credits or not). The "financfal crunch time" for studehts is usually in their fourth or fifth year of fork toward the egree.
5. The curricular offerings of the Department of History are generally conceded to be fairly good in breadth, range, quality of instruction. As with most universities, courses vary in character, suitability, relevance, and quality. The students interviewed generally spoke highly of the quality of Instruction and range of offerings availiable to them, although they adidtted some gaps in the curriculum. Consortium opportunities were not always available to them because of a cost differential. The curriculum tends toward the traditional/conservative side; and there are gaps even and

1. especially in the U.S., African, Latin American/Caribbean areas which are generally regarded ks the strongest fieids, of concentration at Howard. There is a need for greater flexibility in the Ph.D. program-especiafly in the area of course requirements. There is a need for greater coordination between course offerings, and for greater distinction between the M.A. and : Ph.D. level offerings. The 72-hour requirement should be modified. Further
consideration might be given to a more flexibre schedule of course offerings-e.g., evening, weekend, summer period offerings.' Perhaps greater consideration' should be given to the concept of experfential learning as an alternative to strict compliance with the course-completion requirement of the Graduate School. The ties with the National Archives, the Hoodrow Wilson Center and other jnstitutions in the Hashington area might be strengthened. Dr. Harold T. Pinketき of the Archives has worked to promote a relationship between the University and the Archives, and this should be reinforced in the years ahead. The connsortium might be made to work ${ }^{-}$ more effectively on behalf of Horiard University candidates'for the 'Ph.D. in history--some mean's must be 'found to make up for the cost differential in course offerings of the consortium.
2. Program support services and facilities are fairly good. 销ile there -appears to be general agreement anding faculty and students alike that the University' $\varepsilon$ Founder's $\frac{\ell}{\text { ibrary }}$ is inadequate to the needs and interest of the Ph.D. enrollees, the avallability of library resources within the consortium and the accessibility of the National Archives, the Library of Congress and other resources in the Hashington area make up for any deficiencies on the Howard University campus. And a wonderful, umique center of scholarship exists right on the campus̈--convenient to Ph.D. students; the Hapr fand-Spingarn Research Center. This Center collects, preserves and makes available for study thousands of artifacts, books,
manuscripts, newspapers, photographs, prints, recordings and other materifis documenting from antiquity to the present history and culture of black people in Africa, Europe, Latin America, the Caribbeaf and the United States. It is recognized as one of the largest and most comprehensive repositories of Howard University. The Iibrary, manuscript, archive and museum facilities of the Research Center--physically a part of. the Founder's Library. Building (but destined perhaps within five years to be situated in a new facility on the campus) are maintained for the scholarly study of black history and cuiture. All Howard University students, facuḷty, s,taff as well as scholars and the general public are free to use these resources. Budgetary constraints pliced upon the Center and its staff have restricted some of the services of the Center fon students of history but there is no question of the importance and general usefulness of the Center and.its holdings. Its full potential--destined to be great-has ̧et to be realized.

In general, academic facilities at the University are most adequate to the needs of the graduate students in history. The Ford Grant of 1971 enabled the Department of History to improve the physical appearance and utility of Department offices and classrooms sonthat today they constitute quifte an attractive place on the campus. Apparently there is still need for a "graduate student lounge" on campus, and the University could/should do much more for married as well as unmarried students on behalf of their need for suitabie housing in the vicifity of the campus.

In June 1974 the Howard Uniyersity Department published A Directory of Black Historians as a part of the Second Senies of Historical Publications of the Diepartment. Earlier, in 1973 on the occasion of its sixtseth $\therefore$ anniversary, there was published Michael R. Hinston's fine piece The Howard Univensity Department of History, $9913 \div\{973$. This series of historical publications provides an opportunity for the faculty and students to publish the results of their research. Research grants for this series are available from the Faculty Research Programi in the Social Sciences, Humanities and Education at Homard University: In the Directory there are listed 230 practicing black historians in the United States--of whom at least 53 have or have had an association with Howard University. In addition to the Depertment's research publications, there have been held annually since 1970 the Rayford Logan Lectures that have very nicely seryed the Howard acadentic comuntys past lectures in the series, delivered by John Hope Franklin, c. yann hoodward; and distinguished graduates of Howard University, Hary Berry, John Blasifgame, et.al., have been made avallable in pramphet form. . An annuat seminar in diplomatic history, honoring Dr. Merze Tate, will be instituted in the 1977-78 year. In addftion, prizes are awarded annually by the Department to a graduate and undergraduate student of history submitting the best essay in the field, Such programs, services and activities have served generally to enhance and enrich the Ph.p. program in history at Howard University.

## POLITICIAL-SCIENCE’;

The Howard University Department ofupolitical Science has the appearance. in 1976-77 of a well-established, fairly strong academic department with a good range of specialists in the field among its faculty. It may be further described as an essentially traditional/conservative academic department, medium-sized with 28 full-time faculty (reasonably "young" with at least one-half tenured and over $70 \%$ in possession of an earned Ph. $\overline{\mathrm{D}}$.$) and over 60$ students on the graduate level, 30 of whom are presently working toward a Phi. in Political Science. Since 1964, when the first ${ }^{\circ}$. Phi. in Political Science was awarded by Howard University, there have been two to three recipients of the degree annually." The majority of enrollees in the PhD. program at Howard have been black Americans while roughly one-third of thê`enrollment have been foreign students generally representative of The, Third World.

Howard University is one of two predominantly black institutions of higher education in the United States offering the Ph.D. in Political Science. The other is Atlanta University in Georgia. In contrast with the situation at other universities around the country in recent years, the placement of those earning the Ph.D. in Political Science at Howard University has been no problem as graduates appear to be very much in demand. Host seek and win teaching positions at American colleges and universities; some have preferred upper level positions in government and public administration.

In the 1970s, with political and governmental activity among black

Americans and persons from Asia, Africa, the Middle East, the Caribbean and Latin America at seemingly an all time high, Howard University's Department of Political Science fates, in the words of the Chairman, "an unprecedented challenge and responsibilit. The Departinent seeks to interpret this ferment, this aetivity, and to "̈repare young men, and women--particularly minoritiesfor full participation in it. It seeks especially to promote students' leadership and research roles in the political activity of the times'and. to $s$ trengthen $n_{\lambda}$ the ties between Third Vorld peoples and. the black community of the United States.

The Department of Political Science offers graduate work leading to the Master of Arts and Doctor of Philosophy degrees, as well as the Master of Arts in Public Affairs designed to prepare students for professional careers in international affairs, public senvice, with national., state or local goverment, and overseas administration. The regular. M.A. program is designed to prepare, students'for research positions, jumior college teaching, ánd to serve as a first level of training for the more advanced work of the doctoral program. The objective of the Ph.D. program is to develop scholars who mifest a high level of excelience in teaching and research. There are seven fields of concentration: (7) American Government and Polftical Behavior; (2) Public Admínistration and, Public Policy: (3) Comparative Goverment; (4) Internaţionil Relations;
(5) Politica Theory; (6) Quantitative Methodology; and (7) Black Politics.

In addition to formal classroom study, students of politicia science
at Howard University have an opportunity to enroll in independent study courses, to engage th programs of work and study in the comunity, and (for M.A. students ohly) to serve as interns in the government. They are also able to'take adyantage of educational resources in a,variety of special areas. The joint center for Political Studies, which is operated by Howar多 University and the Metropolitan Applied Research Center provides technical assistance to black elected officials throughout the country and at the same time affords research and internship opportunities for students. Howard is a member of the Copsortium of Washington Universities, whose, other members are American University, George Kashingion University, Georgetown Uniyersity and Catholic University. Students in the Ph.D. progrom in political science may take courses at any of the member in-: stitutions as they can also use cerfain factlities, including--in particularlibraries. Students and facuity benfefit greatly from the use of the Library of/Congress, departmental and àgency libraries (such as State, HEW) located elsewhere the Federal Government, the yational Archives, special liaison" with members of the Congressional Black Caucus and other members, and committees of Congress, as well as unique relationship with various agencies in the executive and legislative bkanches of the. government.

The University maintains a stringent admissions, policy toward appilicants to the Ph.D. program in political science. The Department of Pelitical Scfence has established a Committee on. Admissions and Ạwards which reviews applications for admissions. Students with a master's.
degree (or its equivalent) from a fully accredited institution may be : admitted into the Ph.Q. program upon submission of the necessary documents. (transcripts of studies, at least two letters of recommendation from members of the academic corminity familiar with the applicant's recordis a brief autobịographical sketch and a statement of the applicant's educational and professional objectives) and proval of the Comittee on Admissions , and Awards. Applicants musthave maintained a'çumulative grade point' average of.at least 3.5 in al work above the baccalaureate level $l_{g}$ - Students who have engaged in previous study at Howard must submit letters from three or more members of the Department of Political Science. Students with a $B A$ degree who possess untque qualifications may be admitted to the doctoral program if they request it in their initial application and if their. admission to the program is approved by the Cormittee. Admissian" the "MA program is not equivalent to admission to the Ph.D.aprogram-H.A. degree candidates seeking admiscions to the Ph.D. program "must request agproval from the Cormittee on Admissions and Awards. For the Ph.D. program. beginning in the fall of 1976 there vere 12 appifcants in political science; five were accepted and started Ph.D. work: A recruitment effort is undertaken on a•regular basis by Howard University. A special effort is made to recruit eligible and interested parties from the predominately black institutions of higher education in the Southern region of the country.

The Ph. De program requirements in polftica $\overline{\overline{1}}$ science may be termed stringent but conventional: (l) a minimum of 72 hours beyond the baccalaureatè dègree in courses yiêding gräduate credit. (including a
reçpired course in Scoped and Methods); (2) demonstrattion of the ability. to use at least research tools among the following: a foreitanguage, statistics, computer language, quantitatịive methodolqgy, testing methods; (3) 'the passing of written qualifying examinations in four fields of conentration, one of which may be in a related discipline such as history, sociology or economics. Candidates for the Ph.D. must have a 3.5 average of better for aid courses taken as a part of their graduate work prior to the taking of the written qualifying examinations. A Ph.D. student magr only be admittéd to candidacy after having fulfillied the researeth tool requirements; passing the qualifying examinations, receiving the recommendations of the Department of Political Science andsesecuring the approval of the Graduate Council. As the final requirements for the doctorate, the candidate must' submit a dissertation nepresenting an original contribution to the field of pgificical science," and successfully defend the work in an oral examination. A candidatenust secure formal approval of the dissertation topic from the graduate faculty adviser, who has agreed to serve as fils or her dissertation supervisor." In consultation with the supervisor, the candidate requests two addj.tional graduate faculty members to serve as readers. This becomes the candigate's Dissertation Committee (the composition of which is subject to the approval of the Chairman of the Department and the Director of the Graduate Program). The oral examination of the dissertation is administered by a.panel consisting of three graduate faculty members of the Department of Political Science (one of whom is the dissertation supervisor), one person from outside
the Howard University Community, the Dírector of the 'Graduate Program and the Chairman of the Department. -

The general requirements for the Ph.D. in political science at Howard appear to be very much "in line" "with those representative of the more prestigious, better known and lồnger established Departments of Political Science in the United States, such as at Yaie, Johns Hopkins, the Universities of Chicägo, Michigan, California. The range of course offoritags and fields of concentration in political science at Howard may be considered to be very good in compen with other institutional offerings around the country. The لnixersfty is unique th that it is one of only two predominantly black institutions of higher education in the U.S. affering a Ph.D. program in political science, and it is special in that it offers as one of seven fields of concentration, Black Politics. This has attracited a fair number of students to Howard University, just as the department's special'strengths in public administration, public policy, international relations and comparative government (Third Horld Poiftics) have tended to *ract än unusually large number of foreign students to the campus and to the Ph.D. program.
C. In the spring of 1977 the Ph.D. program appears quite alive and wellfrom the vantage point of the students invoived and members of the Howard University faculty associated with it. The Chairman of the Department, a specialist in intergovernmental relations and urban politics, holds á high regard for the members of his faculty. He speaks of them and of their accomplishments. with considerable pride--Howard University Political Scientists
haye had as many as four books published in recent months. Dr. Margeurite Ross Barnett wrote The Politics of Cultural Nationalism in South India, published by Princeton University Press; she also co-authored a book entitled Public Policy for the Black Comunity, published by the Alfred Publishing Co. of New York. Dr. William Erlis of the Department is the co-authar of a study on airport access traffic, entitled forecast of Landsidde Airport Access Traff)c at Major U.S. Airports to 1990. Dr. Archibald Singham of the Departmeny is the author of From Bandung to Colombo, recently publịshed by the Third Press *Review Book Co. of New York. Other members of the faculty are nationally known in their special fields: Professor. D.G. Kousoulas in comparative politics; Professor Pincent J. Browne in public administration; Professor Brian Reinstein in internationaj relationsAfrica; Professor Roberte E. Martin in American Government and Black Politics; among others.

An exceptional product of the Howard University Ph.D. program, Dr. Hilbourne Hatson, is presently serving as Director of the Graduate Program in Political. Science. Hatson brought to this important and sensitive position the perspective of a foreign student (who could have attended any number" of universities in the U.S. but chose Howard), the discipline and spirit of a recent graduate student, the activism and wisdom of a leader in the Political Science Graduate Student Association of Howard University (established in 1971 and serving since as an "agent of change" at Howard Unversity). As President of this group in 1971-73, Hatson took the lead in bringing about some dramatic changes in the Ph.D.pprogram. His tenure as a Ph.D. sttudent

- at Howard coincided with the award of a siffificicant, substantial and timely. Ford Foundation grant to the University for the purpose of upgrading its programs in history and political stiente, the Ford grant enabled the Department to expand the poititical science faculty and administrative staff, to award graduate fellowships to prospective black Ph.D.'s, and to-improve its facilities for graduate education at Howard. 多atson sinitianly sought an MA degree at Howard; the Ford grant changed his sights and with assurance of fellowship aid pursued the doctoral degree. Assumption of the presidency Of the Graduate Student Association gave Hatson the opportunity to effect some changes in the then "archaic and inflexible" requirerrents for the Ph, io. in Political science. Independent study, reduction from five to four the nimber of special fields of competence; modification of the format of compyenensive examinations, and of the research requirements for the degre-: 'these and other graduate student demand's were acknowledged and subseguently àdopted by the Department.

In general the members of the Political Science Department facuity have "seen fair Growth and steady improvement in their Ph.D. program: in range and scife of eurricular offerings, in opportunities avaifable to students for researich and general assistance, and in the graduaf modification of degree requirements. The Departnent appears, in 1977, to make every effort to assure thequatity of its products. The students confirm this the their "Jutgment of the program and in their generailiy high regard for the facuity", and their high morale. They see it as a tough program, with getiff but fatr and generally sensible requirements. They recognize the weaknesses. in the program:
some gaps in faculty strength, inadequate 'library and (possibly) other support services, the 72-hoưr course work requirement in need of modification, the desirability of having a choice of either written or oral qualifying examinations. But there definitely exists at Howard a good, mutually productive relationship betreen faculty and students-a prime irequisite - for any Ph.D. program of merit.

## sociology

## 1. DIRECTION OF PROGRAM

The doctoral program in sociology at Howard University was started formally in 1974. A program leading to the master's degree has been offered
 It is moving slowly, but with care and study. As a result", no 'student yet has been awarded a doctoral degree in sociology; however, it is Expected that the Ph.0. Uegree will be awarded in the fall of 1977 or spring of 1978.

Hell defired objectives has been developed as a result of considerable deliberation by facuity menbers and others during the past ten years. They include:

1. To provide competently-trained manpower for teaching and research positions in public and private academic institutions.
2. To train graduate students in the sociological analysis of urban social, structures, especiaily the minority urban community.
r 3. To provide graduates, especially those from minority groups, with research skills that will contribite'significantly to the formulation and inplementation of social policies.
The main fields of interest which provide the focus of the doctoral program are: (a) urban studies and demography, (b) race and ethnic relations, and (c) medical sociology. Efforts also are being made to strengthen the program in social psychology, deviance and social control and comparative sociology.

The objectives and fiefds developed for this program provide the bases
of an impressive program. With the support of the faculty, the Department Chairman has been able to begin a student and façulty recruitment program, and to secure a developmental grant that is süpplemental to the regular budget of the Graduate School for the Department of Sociology. Policies are being established as the Ph.D. program becomes more of a reality.

FACULTY: The Sociology Department is now in the process of selecting a distinct high ievel faculty to conduct the dostoral program. At present, there are six (6) full-time staff wenbers holding the rank of professpr. in the program. There are ritid sefection and appointrsent procedures that are used to screen candidates for the Graduate sschool. They include, apong "other things, academic status, research and publications, previous positions, and evaluation by appropriate councils.

The staffing pattern of the Sociology Department for 1976-77 included: Professors - 6; Associate Professors - 4; Assistant Professors - 7; Instructors. - 1; Lecturers -13. .

The desired teaching load in the Bepartment is: six (6) hours teaching plus four (4) student advisees at, the graduate level, and nine (9) Fours * Of teaching plus a minimum of four (4).student advisees at the undergraduate leveî. A recognized proplem is the lack of an adequate number of well-qualified senfor staff menbers in some of the proposed.fieids, i.e., Social Theory, which creates a shortage of advisers for Ph.D. candidates in those fields.

To encourage the faculty to undertake research and publication; a summer Rësearch Program has been deve?ped. Graduate students also may attend and those wie do are provided the opportunity to gain experience. in research requirements under the guidance $\partial \boldsymbol{\sigma}$ faculty members.

Faculty membets are expected to serve as advisers to all Ph.D. candidates, thate is, to be available to assist the candidates in the selection of their courses, research projects and with the preparation for the preliminary and comprehensive examinations.

## II. EHROLLHEIT

Buring the 1976-77 term, there were 15 full-time and 6 part-time students enrolled in the Ph.D. program. (There were 55 enrolled in the master's program.) Hone of those in the doctoral progran was expected to complete thein program during this year. With the limited faculty, care must be taken to restrict the number of Ph.D. students until adequate qualified staff is appointed to provide the individual student counseling necessary.

Considerable time has been devoted to procedures for recruitment and admission policies. Because the Ph.D.. prōgram $j s$-in the developinental stage, the quality of those who apply may be limited as there are well established programs being offered now in other universities in the area. Policies for admission to the program and to candidacy for the degree, therefore, have been established to correspond generblly with those used by other universities. Points considered are: (a) the number of quality point average for admissions, (b) course requirements for specific fields,
(c) examinations,
(d) tranguage,
(e) oral and written examinations, and (f) a dissertation.

STUDEKT AID: The Department provides financial support through tro kinds of programs: (i) graduate fellowships carrying stipends usualiy of $\$ 5,200 ;$ (2) graduate" assistantships, paying approximately, $\$ 4,000$. "During

1976-77, there were six (6) assistantships and seventeen (17) fellowships. This number of fellowships was made possible by a grant from the. Ford -Foundation which funded twelve (12) of the 17.

Régulations have been developed which specify the bases for- the awards, i.e., the length of time the student can expect to receive the stipend, and the standards required for retaining the assistance.' To quote from their Repart:*

The assignment of financial assistance will be governed by, in order of intportance, a student ${ }^{1}$ s ability, apparent professional comitment, and financial needs." Ability will be judged both from the applicant's scholastic record and the recommendations supporting the application.' Professional cormitment will De indicated by the applicant's professional objectives in his/her choser discipline; and financial needs whil be considered on the basis of the applicant's financial report(s).
Awards are made for one year only. The reneral of financial assistance is subject to the recomendations of the faculty members with whom the student has worked, and the approval of the Committee on Admissions. and Scholarships and the Chairman of the Department. ${ }^{3}$ Specific criteria for renewal of financial-assistance are: (1) maintenance of a' grade point average of 3.5 or above, (2) satisfactory progress toward the. degree for which the applicant is working, (3) satisfactory fulfillment of the duties or other conditions for financial support, and (4) eligibility for financial assistance under the time limitation set forth below.
*1975:-76 Annual Report of the Department of Sociology and Anthropology, subbiltted to the Ford Foundation, August $31,1976$.

Unless the following time limits are individually saived by vote of a majority of the faculty members of the Department, financial assistance fill 11 be granted for no more than:

1. Four (4) semesters for the entering B.A. horking toward the M.A.
2. Four (4) âddítional semesters for the entering M.A. working toward the Ph:D. (M.A. earned in this Department).
The entering B .A. thus may have a maximum of eight (8) semesters of
support torard the Ph.D:
3. Six $(\bar{\sigma})$ semesters for the entering H.A. working toward the Ph.D. ( $\mathrm{H} . \mathrm{A}$. recejved from another institution and/or a field other than sociolog.y.)
'Time limits ore financial assistance do. not:imply that a student is assured of completing the degree program within the prescribed time limits, nor do they imply a limitation on the time a student may spend in obtaining the graduate degree(s).

- Students receiving the awards gust be in full-time residence (12 credits for the H.A.) and during the period of the award must not hold any employment either full-time or part-time, except with the written permission of the Chairperson of the department.

Students on financial aid tust not have more than one incomplete course per semester.

Students receriving financial assistance will be assigned to one or more-professors for practical training which may include leading student discussion groups, and assisting members of the faculty in thsearch and related work. The training will involve ten to flfteen hours a week.

The average cost for a student is approximately $\$ 7,000-8,000$ per year. A full-time student, therefore, must be in a position provide the difference between the amount of the fellowship or assistantship and the total costs. - Ph.D. Candidates' Views of the Program: The candidates' views are varied, but strong on each of the following points.

There is a feeling that there is need for strengthening the quality and quantity of the faculty members in the doctoral program. Some students have interests in fièds other than those now included or emphasized in the Department. They also-feed that there are not enough faculty merbers of high level status and quality to provide them with the guidance that is needed. Some feel that certain faculty members might be required to offer an additional course in order to provide broader coverage of certain fields.

Because the program is in the developmental stage, the candidates recognize the need for change and refinement in the administration and - requirements of the Department. Yet, those who entered the program at the beginning feel that they are being penalized by changes in regulations. and policies.

Due to the access to the Colkge of Medicine, the program in Medical Sociology, like that dealing with urban studies and demography, and ethnic relations will provide ample job opportunities when the students have completed the program for the degree.
$\therefore$ In addition to staffing, the Ph.D: candidate's consider the lack of adequate facilities to be one of the most severe problefis. They believe
that a center with library facilities, laboratory, space for seminars and group meetings would add greatly to an environment for a productive program. The administration is aware of the lack of adequate facilities and some steps aré being taken to improve the physical conditions.
III. . CURRIEULUM PROGRAH

As a developing program, care has, been taken to limit the number of ffelds in which the students can concentrate. is the faculty increases, it is hoped that a broader coverage can be undertaken. Other departments are Zavailable now which offer supportive programs, such as the College of Medicine which provides research and experimental learning experiences for those invoived in the program:

Study, has been made to assure that the number of hours to be, taken in the yarious fields is adequate. There is evidence of growth and modification of the program through appropriate planning.

The major problems are those of inadequate number an quality of staff, . and the lack of space and facilities needed for unifying program objectives.
IV. PROGRAM SUPPORT
$\geqslant$,
PTans for converting one floor of a building to a center for the Department's use are underway. This will make it possịle to have pubitications, periodicals and other reference materials, including spere media resources, available for the doctoral candidates' use.

Students iff the Department may request permission to take courses at other universities, then the courses are deemed appropriate and have the approval of the candidate's adyisor or advisory comittee, permission will
be granted. . This practice utilizes, further the resources of the other universities.

The Founders' Library, on Hoyzard's campus, has an acceptable colleçtion of publications and resource information pertaining to the field of sociology.' There also is à Data Processing and Computer Center on 'campus which can be used by faculty and-students. The Department of Sociology pfovides desk cálculators that can be used for programs in research methodology and for carrying out research projects.

THE GRADUATE SCHOOL OF ARTS AHD SCIEHCES
The perly organized Graduate School of Arts and Sciences began a restructuring process in 1974-75 with the following najor objectives: Howard University has the responsibility to create an intellectual. milieu for faculty and students to become competent scholars, teachers' and researchers. With the moral and finãncial backing of the University, the Graduate School of Arts and Sciences shall set these goals: (1) to increase the number of graduates capable. of assuming roles of leadership in every field of human knowledge; $(2)$ to improve the philosophical coherence of the graduate program; (3) to contribute to an atrosphere that nurtures talent for identifying major problems and arriving at solutions; (4) to'augment the size of the faculty and supporting staff; (5) to raise the level of faculty performance; (6) to provide adequate_library and physical facilities for professional growth; and (7) to establish an international cormunity of scholars.

The Advisory Council for Graduate Education has as its purpose: " to advise the Dean on all matters governing graduate education. It shall aiso formulate policy (e.g., certification and evaluation) and promote high standards within the Graduate School."

The Council is composed of "the Dean of the Graduate School as chairman; the President of the University, Yice President for Academic Affairs, Vice President for Health Affairs as.ex officio members; the Chairgersons. from each of the five (5) divistons; and the Directors of the Institutes and Centers."

The-Sociology Department through graduate fellowships and assistantships provided by the Graduate School assists Ph.D. candidates in meeting their financial obligations. Some assistance comes fron the budget of the Graduate School, and some is provided by the Ford Foundation. It is hoped that the Ford assistance will be absorbed by the regular budget when that grant is terminated.

There is a student advisory procedure established within each Department that) has individual faculty and committee counseling support. The lack of sufficient number of senior Graduate, School faculty members, however, is viewed as a problem by some of the doctoral candidates tho desire a closer working relationship with the adrishrs.

Academic Facilities: Along with the limited number of faculty menbers, there are inadequate accommodations, There is a need to improve the housing of the Department. More office space, for faculty, laboratory space, seminnar and conferenceirooms, and a departmental library should be made available.

These needs are recognized by the Unfversity's administration and plans
have been devgioped to provide for some of the facilities within the next "two years.

- The location of the University is such that there is a wealth of relateđ: agencies and institutions, Government and non-Government, which can and are being used by the Department to strengthen it's program. . The Fculty should be 10 nded for developing good working relationshofs with these and other - outside resources. $ل$

Suinmary: The Sociology Department hàs undertaken to provide a progräm that is commendable. The efforts made to obtain outside financial than riett of the gther Departments in the Graduate School. Such outside funding helps to provide reșearch opportunities which are basic to the Ph.D. - prográn.

The two outstanding problems are (1) that ensufficient senior faculty an $\alpha^{\prime}(2)$ lack of space. The administration' recognizes these problems and is making plans to provide additional space which will be more centrally located and make it possibie țo bring together faculty and resources. This should make for a more closely organizized Depąrtment. as

The Graduate School has a top salary level that can be used to attract senior fàculty; once adequate office and laboratory space àre avaitable. Efforts, therefore, should be made to recruit enough senior staff members for the Graduate School faculty and that of the Department to provide the quality and esperience needed to strengthen the program?

The rele of the Director of the Gratuate Program fintin the Department
should be strengthened in order to free the Depariment's Chairman of many duties that he-has nor to assume.

Because of the shortage of Ph.B. graduates; particularly of minority groups; in this field, Howard University can provide, a great seryice and meet'a great need by continuing to develop this Ph.D. program. More and * continued support should be provided.


## I. Determinants of the Program (Direction)

## A. ' Philosophy/Mission

The Department of English at Howard University has expressed a commitment to excelfence in its graduate program. The program, both in current practice. and as planned for the future, is clearly articulated and seems appropriate to the needs of the tudents and those of the academic world at large in. this country: It is 离1so relevant to conditions in the "real world" as relevant as a graduate prograñ can be in our rapidịy changing confemporanéous scene. The lively, alert, interesting personafities in the English faculty? with their rich variety of backgrounds and experiences of international scope, keep this department from the isolation of an "ivory tower," such as still tries to survivé on a fer campuses. A viable departmens must maintain contact with its surpounding community, and this department endeavors to remain viable.

The activities and afins of the graduate program are set forth in a .current 11-page document, "Graduate Study in English at Howard University." Additional details on current operations and on plans for the next five years are presented in logical succession in a memorandum of March 30; 1977, from The Chairroman to the Dean. of the Graduate School.

Hth a view to the enrichiment of its graduate offerings, the depafoment initiated at the beginning of the 1976-77 aciademic year the regtructuring of its graduate program in English. TThe department bas planned to revise and strengthen thits program in at least three phases. At this date they
are in Phase One, which consists of defining and setting forth a rationale for graduate study in English, as well do of establishing statements of policy. Such statements will include prerequisites for admission to candidacy, requiremients for the Haster of Arts and the Doctor of Philosophy degrees, procedures for the assignment of advisers, and descriptions of the duties of gráduate-assistants.

Phase Two winl focus on the curriculum. .
Phase Three will concentrate on evaluation (i.e.., type, format, and scope: of examinations., grading, etc:)

Since the above areas are intricately linked with one another, irplementation of one part cannot be carried out in complete isolation from the Others. Menbers of the Grackate Faculty are making and will contine to make a concerted effort to marshal all axailable resources to accompliṣi the ends stated.
 The graduate professors of English have colmitted themseives to prepare. students to becore competent scholars and teachers, as well as to function effectively in non-academic positions in which knowledge and skitl in the usè of English language, gramar and rhetoric are essential, such as general writers, writers of "how to" manuails, journalists, researchers for contract. organizations, and writers óf governnent position papers. To help students achleve these goais, 'the department offers, a curriculum which consists. off a wide choice of courses in the traditional fields of concentration in

Tanguage (including linguistics), literature, and criticism. These courses are supported and amplified by extensive offerings in closely, related cógnate fields, such as history, classical studies, and modern languages and literatures. In addition, graduate students majoring in English may now undertake serious research and comparative studies in Afro-American literature and in the little-known but serious literatures of the Caribbean countries.

## B. Administrative Policies/Leadership

With a view tonmore efficient administration, the Graduate School was recently reorganized into two separate divisions. The Dêpartment of English forms a part of the Division of Arts and Humanities, which likerise includes Philosohpy, General Humanities, and Fine Arts. The' departnent has' strong, disciplined leadership in the personality of the Cháirroman. She also serves as the Chairman of the Division of Arts and Humanities.

Comminications within the Department of English seem good; in spite of a difficult, almost chaotic physical layout, in which there appears to be. 1ittle hope of imsediate improvement. There is ready access to the Chairwoman. Brief conversations with faculty members reflett generally good morale and a respect for one another's status and achiévements.

The Chairvoman sharies responsibility for policy matters with the graduate faculty, which meets at regular intervals. Members are consulted on matters of Pfi.D. dissertations (including comittee responsibilities to the candidate), standards of perfomance in course work, construction of examinations and other form, if educational measurement (including the special English

Proficiency Examination), duties and responsibilities of graduate assistants, and general matters of curriculum development, such as the "General Course in Hethods of Graduate Study and Thesis Kriting for the Graduate School," required of aill H.A. candidates. . L.

Under the general Feading of Problens and Concerns, the mose obvious解的 acite need is for more space, space specifically planned" for the needs of the English Department. The highest priority is for a special room of at least classroom șize that call be used exclusively for the graduate program. The Department envisions it as a rọm for seminars, collcquia and small conferences, and advisory center, and a comittee neeting room: Graduate students in English in need of special assistance from a faculty member or on a workshop project-ripuld use this roon as a place of study. Propision would also be made for the housing of apprgpriate research materials in this special room. It. seems problematic that one room could provide for all these needs, but a starit must be made somérhere.

As in the case with the humanities in generah, classes in English are held in-a number of different buildings on all parts of the campus, whereever space happens to be available. The University is so crowded that during a typical weekday it is hard to find any classroond not in use. officespace is likerrise very severely limited. The senior professors in particular need offices where they may meet advanced students or visitors in privacy. Ideally, the Department of English should have, a building of its own, housing offices, classrooms, a seminar room and a departmental library.

[^0]C. Faculty

The following numbers of professors are accredited to the Gradyate Faculty of English. (As in most institutions, some of these people teach undergraduate as well.)

Professors: Full-time 3; Part-time 1. In addition, there will be a writer-in-resideace next fall who will rank as a senior professer. Associate Professors: Eull time 3: A fourth will be added next fall. Assistant Professors: Fulli-time 13. An additional assistant professor will begin her duties next fall.

All of the above persons are holders of an earned Ph.D. Of the associate professors, one holds a Ph.D. from Howard University. Of the assistant professors; tho recently completed the Ph.t. at Howard: The others have varied and substantial experience and hold doctorates, from the folforing well-knorm; áccredited universities: Brown, State University of liew York at Buffalo, The Catholic University of America; Cornell, Haryard (2); University of Illinois, Indiana Üniversity (Bloomington), Universty of Maryland, University of Minnesota, State University of lew York, University of Oregon, Starford, and Yale:

All full-time senior professors and associate professors in the Departrient of English are tenured.

The English Department includes 18 persons ranked as "Instructor" who do not teach on the graduate level.

In addition to the above tabulation, during the past two years there have been two part-time graduate faculty members with earned doctorates. Likewise, thrẹe fulli-time lecturers and two part-time lecturers are acčredited
to teach graduates as well as undergraduates. Four of these five hold earned doctorates from the follewing universities: Cornell, Haryard, University of Pittsburgn, and the Urban University of Roing, Italy. The fifth, who lectures in poetry and creative writing; holds an M.A. from the Breadloaf SchooT of English, Middlebury, College.

A number of the graduate faculty originally game from other Englishspeaking countries, including Guayana, India, and Jamaica.

Facualty members without administrative responsibilities do not generally teach nore than 12 semester hours. (four three-hour courses). The average number of advanced Ph.D. advisees per faculty member is currently no more than one. (See later explanation.)

Fäculty members àre encouraged to do research and to submit their writing for publication. The Graduate School as a whole, however, does not operate on a "publish or perish" basis. This is to their credit--they feel an obiligation to serve their students first. Effective teaching is a high priority.

Publication in the learned journals associated with the broad field of English is highly competitiye in this country. Even when an article is accepted, there is often a wait of a year or tho before it actually appears. Articies and books by the English Graduate Faculty have been appearing in recent years on a regular basis. This is their record for the current acadefric year (1976-77): articles published, 6; books published, 2 (including a book of poems); and articies submitted,: i3.

The Chairmoman, who is a well known Renaịssance Setholar, has seyeral
published studies to her credit, including the following CLA Journal, Yo1. XIX, June 1976: "Shakespeare's'Use of Eth and Es Endings in the First Folio" and Halt thiman Revien, Yo1. 21, No. 4, December. - 7975: "Moments of Silence in Leayes of Gras\$." She is currently serving on the six-member Folger Shakespeare Library Fellowship Selection. Committee.

The English Graduate Faculty has made plans for quantitative and qualitative growth during the 1977-82 period. They have requested the Graduate Dean to approve the appointrent of ten additional faculty members to serve in the graduate program, in addition to one writer-in-residence-for each acdemic year from 1977 to 1982. This writer will deliver, graduate lectures, conduct a briters" workshop and while at the University, hill write and ${ }^{\circ}$. publish works which it is hoped wikl attract students and other schorors to the Department.

If funds are available for the appointment of sufficient additional. staff, the Department hopes to initiate.and strengthen still other programs during the academic years 1978 tip 1980: (1) a Renafssance Studies Program, (2) an American Studies Program, and (3) an interdiscíplinary program in linguistics.

Since the Department is at present understaffed at the upper ranks; as indicated, there is 'a dire need for the addition of at least two senior professors at $\$ 30,000$ per annum, one for açademic ýear $7978-79$, and the second for academic year 1979-80. Also needed are three assoctate professors at $\$ 20,000$ each, one to be added each year for the next three years. . Three. assistant professors have also been requested at $\$ 17,500$ each, one for each
of the next three years. The Department believes that these additions are essential if it ist to function at its maximum capacity. They will help to assure continuity as the Department loses members through retirement, resignation, or severance.

- The observer's yisit revealed that the highest priority staff need is for an Adrinistrative Assistant to the Chairman at $\$ 14,824$. . This person will coordinate information, reports and schedules 0 of activities and -will disseminate materials and keep statistical records pertaining to the Expository $\hat{\text { Ḧriting Program, as well as to other graduate programs in the }}$ Department. This assistant will also keep up-to-date records and files for the overall graduate program.

Another high priority need is for a Research Associate at $\$ 20,032$. $\downarrow$ As the Department increases its emphasis on research and attempts to attract needed assistance throrgh grants from various sounces, the need for a Research Associate will grow. This person will collect and classify appropriate statistical information and will help coordinate information 'concerning poțential sources of grants.

## II. Enroijment

- Seventy-one graduate students are enrolled in the English, Depariment as of May 1977, compared with 69 for the previous year. Twenty-seven are male and 44 are female. Hineteen are foreign. Thirty-eight are enrolled for the Ph.D. the majority of these are in. $a^{2}$ three-year program and havé not yet. OCompleted the H.A. Only a smali number of the Ph.D. candidates have reached the dissertation stage, where they need repeated and regular contact with. their adviser. This is' why the average load of Ph.D. advisees has been
reported as not much more than one per faculty member.
At present, this number of graduate students seems manageable in pro. portion to the number of professors accredited to the Graduate school. As these students adyance, however, and more are needed the additional faculty members requested vill, clearly be needed to teach, provide guidance, and maintain standards.
c. Admission Policies

Graduates of accredited colleges and universities who have been - admitted to the Graduate Schools of Arts, and Sciences may be accepted by the Department as candidates for the degree of Master of Arts. Admission to candidacy will be valid for only three calendar years. Students wishing $\%_{0}$. admission to candidacy must secure an adrisstions form from the Office , of thé Dean. , Eefore admission is granted, a student must have completed 12 credits in-graduate cqurses with sakisfactory grades.

If "the student has not'been, an undergraduate at Howard University", the Bepartment carefully evaluates his transcrifpts before admitting him to. candidacy. Letters of recomendation must accompany these, transcripts.

III: Program Support

## A. Library

Founder's Library, the main library of the University "is well known as being one of the two richest depositories of materials on Black literature and Black origins in. the United States. The collections of African and Caribbean background books, monographs, periodicals and

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pamphlets is yery impressive. Further, .the African-American Studies Center, which occupies its own building, has rich library resources.

Founders Library is a large and substantial building in traditional style, with fairly adequate study space. One special room is open for study 84 hours a day. The. Library has adequate collections of the British * afd American classic through the end of the nineteenth century. It häs á yery good special theatre collection (the Channing Pollock Collection). thore meney is needed to purchase contemporary literature of the period since forld Har II.

Professor Lettie J. Austin and a group of-graduate assistants are cataloging and cfassifying all the holdings in Afro-American and Caribbean Studies. Hithin a year the Department hopes to offer a full major, in, Cariobean Studies.

Valuable nearby research resources are the Library of Congress and the priceless Renaissance and Elizabetinan holdings of the Folger Shakespeare Library.

Other facilitiés and courses are available through the Consortium of Universities. Under the Consortivm, the American University, The Catholic. University of America, The George Hashington University, Georgetown University and Howard University cooperate, aiong with three associate menbers, D.C. Teachers College ${ }_{b}$ Gallaudet College and Trintty College, have agreed to share their facilities, and give students at any member.. university the-opportunity to take coürses offered by the other séven.

## B. Special Featurès of the Graduate Program if English

The English Department hás been sponsoring a special evening lecture series which hás enriched the formal program and attracted sizeable. audiences: During the first semester, 1976-77, four separate evening: Tecture-seminars were held, with time for discussion aftervard. During the second semester nine special lecture-seminars vere scheduled, .some of them "back-to-back," i.e., tho lectures in an evening. Occasionally, as in the case of the annual Charles Eaton. Burch Hemorial Lecture, a distinguished scholar is brought from outside. This year a new three-day "Humanities Colloquium", was held frof' April 28 through 28 , featuring talks and informal discussions with two distinguished writers. It wass made possible by the Andrew E: Hellon Fund:
C. Relationships with Students

This year ten graduate bitudents in Englisf received universitysponsored research grants, two received fellowships from the fiational Fellowhisp Foundation in Atlanta, and fro received substantial grants from the Andrew Mellon Foundation. Four students received special Graduate fonors at eongincement. As stated earlier, the University is eager $7 y$ seeking additional sources of fid for graduate students,

Morale sems yery good among students. All indicated saťisfaction with their counseling and said they have ready access to their advisors. Their main problem seem to be those of space for study and research, which are faced by the Unikersity as a whole.'
„The Ph.D. program in mathematics was inaugurated in 1976. The M.S. program In mathematics is now in its 50 th year.

In spise of the fact that there is an ample number of Ph.D. programs in mathematics ácross the çountry, there are two good reasons for the establishment of the Ph.D. program at Howard. First, it is the onfy Ph.D: program at a predominately black institution, offering more opportunities for black Ph.D. candidates to kork under black advisors with whom they may feel more comfortable. Second, a Ph.D. progran is also a necessity if a university is to attract top scholars, to its faculty and retain them.

## FACULTY

The inauguration of the eloctoral program has required strong support from the: administration of the University, and this support has been enthusiastically given. - This kind of support will be needed in the next several yeark and Its expected to continue. The number of full-time faculty increased from 26 in 7975 and $30^{\circ}$ in 1976. The support of the administration of the Graduate School for thif program has been effective in enabling the department to attract one establisfled yesearch professor, whose activity in publishing in differential equations has provided the department with additionat" strength in this "areá of analysis, has also brought to the faculty two young mathenaticiăns, Dr. James Curry and Mr. Gerald Chacere.
-The additional financial support provided by the Graduate School was necessary to achieve this strengthening of the faculty in applied nathematics. Other areas are continuing to gro as is indicated by the appointment of Professor James E. Joseph, a"strong research"topologist and

The research activity of the faculty has increased significantly in récent years: : Whereas there were only 8 research papers published in "7965, there were 23 in, 1975 and 30 in 7976 . There. is also a weekly seminar.

- featuring a presentation of one of the :faculty or"an invited guest.

The fine 鲜thematics faculty at Howard University should be further


FACILITIES
The. present housing of the Deparetnent of Mathematics is modern and only two:years old. A colloquia room, librafy, and computer terminal and daplicating room are in the office area:

Although computer facilities are avallable, service and aṣsistance in operating them are not àailable to department members bift ought to be. Furthermore, a graphical display system br ploter is badily péeded.
-There is also a lack of copying facilitities. The department needs $\%$. a copy䱣g facility of its own.

## STUDENT'S

To be admitted to the Ph. $0^{\circ}$. program," a candidate must pass a qualifying examination, with the master's degree giving contitional admittance, Ad--mission to candjdacy corresponds to the successful completion of the preliminary examination and the language examination. Students who do not' have the master's degree may be admitted to the graduate.program but theins work must "be the equivalent of the master's degree.

There are only two dectoral surently enrolled in the Rh.D.
programi, one full-time añd one part-time. This future e, years.

Graduate fellowships and assistantships carrying stipends from $\$ 4,000$ to $\$ 5^{\circ}, 000$-are available in the Department of Mathematics, Financial aid in the form of feflowships, grants-in-aid, or tuition remission is available through the Grafuate School office. An "A" or "B" average" is required to Wold one of these swards.

## LIBRARY

$\dot{A}$ departrient library-room has been set lip to make sorewhat more convenient library usage by both faculty and mathematics majors. A set of Mathematical Reviews is maintained along withi a selected collection of adjanced books.

- Except for the above, ay library holdings fice in the Founder's Library, which is the matn Universityis rary. These holdings, consisting of over 3,000 mathematics voluries and 87 mathematical journals, are presently scattered on three floors, one-quấrter of 'them classified under the Dewey,
Decimal System and the rest of them under the Library of fongress 'System. All books shouitd be classified under the Library' of 'congress System as soon "aş possiblé:

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## PHYSICS AND ASTRONOMY

The Howard University Department of Physics and Astronomy is housed in a building constructed in 1903 when the needs of graduate physics departments were considerably different fro in what they are now.

The Department has eighteen full-time faculty members of whom eleven are professors, tiro are associate, professors, three are assistant professors ant two are instructors. In addition,' $t^{\prime}$ '.ere are four part-time lecturers and four adjunct professors. Those, the rank of professor and associate professor also have tenure: The' tenured faculty fave primary responsibility for the direction of graduate students. The remainder participate to the extent permitted by Graduate School ruled, and to the extent that their - expertise cain contribute to this function. Faculty responsibility for directing master's level students cannot readily be separated from that, for 'directing doctoral students' since every doctoral student, must get the master's degree as part of this doctoral program.

In addition to the approximately 50 graduate students in the Department, and the approximately 35 undergraduate physics majors, this faculty "services" approximately 1000 students in other departments.. This load does not; however, unduly encroach upon the time of thosemembers of the faculty who are directing: graduate students:

- The relatively high faculty turnover reported in 1967 is no. jogger $a_{8}$ problem. There' is good faculty stability now. .

The Departinent has three clerica子-secretarial people, tho of whom are supported by the College of Liberal Arts", and one by the graduate School.

Since nejther faculty nor students complaine about the adequacy of this clericial assistunce, it is apparently satisfactory.

There is no reason to question the qualifications of the faculty members= who are directing graduate students:" They are productive scholars who publish in the best scholarly journals: The Department has recently set up a ten- $\therefore$. member graduate faculty committee which is focussing its efforts exclusively Unon the growth in the strength of the Department's graduate effort.

To be admitted into the Departrente's graduate program, an applicant 'must have achieved at ? ${ }^{\text {east..'a }}$ c-plus undergraduate grade average and must be favorably recomended by three of his/her undergraduate instructors. The Department provides financial assistance to ppproximately 25 'graduate students in the form of assistantships, scholarsitips, and fellowships. Of the approximately. 50 graduate students in the Department, 15 are currently working for the doctorate. In the past five years, the University has ariàded the Ph.D. degree in Physics to 10 s.tudents. The doctoral students in the Department are competent, professional, and dedicated. The faculty
 scholarly study and research into its students. 'Thf students speàk well of most of the facuity and they are pleased with the graduate education they are getting. Despite the much-publicized surplus of Pfi.D.'s in Physics, Ph.D. graduates from Howard have no difficulty finding positions. in which they can make use of their training.

The Depártafent has a two-fold goal - (1) to provide a graduate program which will give students educational opportunities and training equivalent.
to, or better than, that of any institution in, the Forld, and (2) to accommodate a large number of black minority students desiring to study grấduate physics. It is evident that the Department is consciously striving. to achieve this goal. The five-year program objectives of the Department' are:
(1) to increase course offerings and research in astrophysics, solid physics, 鞍mic physics, and 7onergy physics.
(2) To increfase the nurber of assistantships, fellowships, and scholakhips from 25 to 30.
(3) To increase the nurber of graduate students enrolled from 50 to 100.

These ambitious objectives will probably be difficult to reach.
Graduate course offerings, and doctoral research opportunities, appear to be adequate to meet the needsmof students. Through the D.C. Consortium of Universities, students have access to courses in other Toc̣al universities which are not offered at Howard. Since the last report on the Department's graduate progran (in i967), it has dropped the foreign language requirements forin "ts curriculum. In coing. so, it has done what many graduate departinents of Physics in the country have done during the past ten years. The language requirements are no longèr found to be meaningful.

## COHMENTS

That makes the impressive resèarch accomplishments of the faculty admirable is the rather difficult conditions under which research has to
be done. Support services are, by and large; poor. The first of these is the sadly inadequate library sèrvice: The Departmental ilibrary', which; houses $\hat{\text { recent books and recent issues of learned journals, is not staffed: }}$ As a result, many items are missing, either because they have been taken, out and never. returned, or have been stolen. 'Both faculty and students mentioned repeatediy that this is a soumce of both hardship and annoyance to them. Here it not for the relative proximity of the well staffed, and well stocked, libraries of other universities in. the area which students and faculty are permitted to úse, inadequacy of library would be àn almost insurmountable obstacle in the conduct of research. Interlibrary loans cannot serve às a substitute for a seriously inadequate locay library. Another serious problem is the lack of adequate University building maintenance services. For example, there are bad leaks in the roof of the Physics building which have been left unrepaired for a long tire despite repeated requésts bythe chaiman of the Departrent that this be done. . This is especialliy serious in that it could result in irreparable damage to cosţly research equipment.

Faculty members renprt that there are unconscionably long delays in the processing of purchase orders for supplies and equipment needed in their laboratories. One faculty menber reported that he has to resort to purchasing government surpius equiprent with his own money to meet his resexheh' needs, and thus avoid long delays in doing his research. The, shortage of space reported ten years ago is 'still a serious, problcm. Some of the research laboratories are too small for the eqripment
and people they must accomodate. Classroom space is in such short-supply $\therefore$ that some classes must be held in faculty offices.

## RECOHELIDATIOHS

I. To the Department:
7. Do something. immediately to get competent staff for the Physics library:
2. Consider, in so far ás this is in accord with Howard University's mission, recruiting graduate students from a broader scope of undergraduate colleges. This would very likely pring benefits both to the students and the faculty.
II. To the University:

1. Give immediate attention to the rather serious failures in the maintenance of: the Physics building.
2. Streamine the fulchastifl process
3. . Build a building for the Physics Department as scon as possible, or provide adequate quarters and facilities in an

4- existing modern building. It is doubtful that the present building can be properly renovated, and brought int conformity with the D.C. building code, for Tess money than it would cost to construct a new building.
A. FACuLTY

Comment: The Chemistry faculty and their research interest compares very favorably with some of the strongest graduate schools in the midkest.

Interviews with about half of the faculty revealed significant. scholarly attitudes and interest in students.
(NOTE: -Three additional facuity will be hired for tenure siot positions in the near future.) -
B. EQUIPYENT

Observation: The depar.ment has well-equipped research laboratories in the fields of Physicalechemistry, Biockemistry (inciuding Bio - inorganic) and Natural Products. WV = Visible, IR, Laser, Raman Spectrometeirs; eguiprent for magnetic measurements', gas chromatographic separations, HoR and ESSR reasurements, $\mathrm{C}=\mathrm{H}$ analysis, thermodynamic and kinetic measurements. Some of the more highly specialized èquipment inlcude a Finnigan 6S-HS, HA-100 HWR, Spectrometer, Cary 14 Spectrophotofiter, preparative ultracentrifuge, DuPont DTA TGA thermoanalyzer Perkjn-Elmar ל̂2l IR Spectrophotoneter, PAR Polarographic Analyzers and a PDP/8 Computer. Terminals to the IBM $360 / 158$ are avaidable daity from 8 a.m. - 11 p.m. and weekends.

## Comment

The research equipnent listed above is being used tò conduct sophisticated research in a variety of areas. This equipment would compare favorably with some of the strongest quaduateischools in the midnest.

## C. RESEARCH SUPPORT.

Observation: At the time of this survey $\$ 1,247,000$ in grants-were in progress; new grants amounted to $\$ 650,000$; and grants totalling $\$ 1,085,000$ were applied for. These grants have been received from a variety of Federal agencies; including ÉRDA, NIH, UASA, UIGMS, HSSC, NSF, AEC and busines's organịzations, such as Americạn Can and Upjohn.

## Comment

In 1975, the total research suppopt for the Departrent was about $\$ 200,000$. The dramatic increase showh above is excellent'eyidence of ${ }^{-}$a strong graduate program'that is 'making an actiye, up-to-date research contribution to the field of Chemistry.

## D. FACILITIES

Observation: The Chemistry Department is housed is a five-story building with a net floor area of approximately 58,000 square feet. The present - building is about 35 years old, and is very crowded. Honever, a $\$ 2,000,000$ remodeling program is underwáy which will result in modern and vell-designed research and student laboratories, classroons and faculty offices,

## Comment -

The $\$ 2,000,000$ renovatioh will not add any square feet to the Chemistry building. The need for additional space is acute. The Chemistry Departnent Chairman has estimated that at least 80,000 square feet are needed. There is a possibility that the Chemístry Department will acquire a wing of the old hospital building. However, there art two disadyantages to this: (1). the wing is:a half-block from the Chemistry building and (2) the old
hospital is to be demolished not later than 1985.

## IE. LIBRARY

- Observation: The library has 12,000 volumes, 121 periodicals
(journal subscriptions) and 100 reference volumes. In addition, Howard University is a member of a consortium of Washington, D.C. universities which share library resources. The Chemistry department has a full-time librarian with appropriate student assistants.
- Comment.
"The graduate students interviewed said the area libraries were -excelfent. There was some unhappiness because (1) graduate, students were no. longer permitted to have individual keys to the library (too many missing books) and (2) the university library system/ has taken over all departmental libraries and the head librarian determines the budget for each departmental library.
F. STUDENT FINANCIAL AID

Observation: The following financial assistance is available for students; (a) 26 Graduate assistapthips, (b) $2^{\prime}$ NSF traineeships,
9-NIH traineeships, (d) $\dot{4}$ Research grants, (e) 2 Bionmed traineeships,.
(f) 3 Terminal fellowships.

## Comment

The good spread-of-finnancial support for students provides the opportunity for both classroom and research experiences.

## G. REQUIREMENTS FOR THE DOCTOR OF PHILOSOPHY DEGREE

a. Courses All'students are required to take the core courses unless exempted by examination:- The minfmum credit requirement for the Ph.D. degree is. 72 hours beyond the B.S. degree of which 48 hours must be pursuef in course work and 24 hours in dissertation research. The student's courses must be approved by an adyisory committee.
b. Examinations. Students in the Ph.D. program are requirely to take and pass (1) three writiten divisional comprehensive examinations (2) an adyanced written comprehensive exarination in the student's field or speciality and (3).a finnal oral examination bașed primarily on the student's rẹsēarch.

NOTE: The passing of this $\overline{\text { oral }}$ and the final acceptance of the dissertation by the Graduate-School fulfills all the requirements in the Ph.D. in Chemistry.-
c. Scholastic Requirements A cumulative average of 3.00 (B) is required for graduation. Courses with grades below B may not be submitted for meeting course requirements for the degree. A student who accumulates Fiore than fifted hours (inclusive of the H.S) below B in the Ph.D. program is dropped from the graduate school.
d. Foreign Language Requirements Two foreign languages are required. A reading knowledge of Êerman, French, Russian, Japanese or Chinese may be satisfied by taking (a) Princeton Standardized Examination minimum score 375 or (b) an examination adminstered by the For ${ }^{\circ}$ ign Language Departments in materiai's submitted by the Chemistry Department.
e. Admission to Candidacy Admission to candidacy may be requested after
successful completion of parts a through d (above) in addition, the student must be certified by the department or the Graduate School for competency in Englishry: "He-must also be recommended by the Department and approved by - the Graduate Council (elected by the Graduate School from the five divisions of the college.)
f. Teaching requirements Ali students pursuing the Ph.D. degree must ${ }^{\circ}$ participate in some form of teaching activity which could include a year as a: teaching assistant.

## Comment

The requirements for the Doctor of Philosophy Degree are as rigorous as you-would find in any high quality graduate school.

## g. Requirements for admission to graduate school

Observation:- To be admitted to the Graduate School to study Chemistry, a student is required to have a B.S. in Chemistry from a college with an approved program. The student should have as a minimum a $3.0 / 4.0$ or " $B$ ". average in Chemistry. Occasionally consideration is given to students with ai C+ average, in Chemistry. In addition to transcripts, three letters of recommendation are also required.

Comment

It is suggested that the A.B. degree be included and a mathematics requirement be included as strong mathematics background is absolutely essential for success in modern chemistry.

## h. Publiciations

Observation; Thirty-three publications appeared for the academic year. sixteen publications are in press.

Comment
This is a very: respectable publication record.
Administrative Support
Observation: The -ghairgian of the Chemis'try department indicated that administrative support of the graduate department of chemistry was "excellent." Comment

Strong àdministrative support is essential to building" and maintaining a strong graduate department.
j. Interviews fith graduate, students

Observation: All five s,tudent intervieked gave the department high marks for (7) the releyance and quatity of instruction; (2) the releyance. 'of the requirements for the Ph.D. dégree; (3) the number of research options; (4). the overall administration of the programiand (5) program support including the library, computer and research fácilities. They were particularly complimentary about the harmonious relation between faculty and' stadents,

They were yery crittical regarding the long time (in some cases up to one-year) required to obtain essential research materials (such as chart papers).. They said that requisitions for supplies get lost and the business office is sp tarrdy-about paying birts that companies will not accept Howard's credit fand are requiring cash.

Another complaint was that the responsible officials do not act promptly to "(1) install equipment or (2) repair equipment.
SUMMARY COMMENT
This is a strong department of Chemistry administered by a hard-working completely dedicated and thoroughly capable chairman. The stäff is doing an excellent job of training chemists.

## ZOOLOGY

.The Department of Zoology at Howard Unitersity offers the Doctor of Philosophy degree with areas of research spectialtzation in cytology; ecology, endocrinology, genettics, 'parasitology, physiology, protozoology, and developmental biology.

The general objectives of, the graduate program are best expressed by the department chairman, Dr. Winsted Anderson.: A major objective of the graduate facuity is to traín research scholars in areas of furdamental biology through formal and informal instruction. The faculty believes that wa through frounding in the Iife sciences is essential for understanding. and seeking solutions to many pressing probzofs in the biomeal sciences The faculty, therefore, offers gore courses with the following objectres:
(1) to provide background information fundamental and essential to subsequent çencentration in advanced course;
(2). to stimulate and motivate-students to pursue careers in the biologicaz and medical sciences":
(3) to encourage originaju research and
(4) to develop cillumspective thinking in the minds of students. through training in the stife sciéncés.
In sinmary, therefore, thit department is obligated to trafn welfrounded biologists, to develop research skills' and expertise in crithcal. areas of the life sciences) and to prepare them for areers inteaching,
résearch; ànd for professions in other areas of human concern."

1. Braduate Eacyity

The graduate faculty is comprised of 7 professors, 2 associate professóss, 1 assi'stant professor and instructor. As a group the graduafe faculty are well quâffedefrofessionally. All: are actively engaged in research and rost have predótoral students doing thesis research under their direction. Graduate faculty research productivity for the periód of $w$ 197557976 included the publication of: 27 papers., Each faculty menber hant fat at Teast one publication'zndiseveral had three or more.

All graduate, faculty hàve obligations to undergraduate teaghing. This places "rore strain on some faculty than ${ }^{\circ}$, others since teaching loads in". gradyate courses are not equaliy shared. This is due prifarily to difference in student interest among various sourse offerings. The departinent chairman has taken steps to equalize total teaching loads for graduate faculty by increasing undergraduate teaching responsibilities for faculty members with yery light gräduate Feaching requirements, i.e. 'with few or no students enrolled in thes courses. This has understandably created a degree of concern among affected faculty, who feel that preparation tor a course taught to a few students is as demanding as preparation for a larger class.

Eight geaduate faculty members received sone form of research and training: grant for the $1976=77$ year (see following).


## ' $x^{\prime}$. Graduate Curriculum'

The present Doctoral Program in Zoology, at Howard reflects a traditional view of graduate study in'science. All candidates for the Doctor of Philosfahys - degree must spend at least four regular semesters of residence in the Graduate School. To obtain fill residence credit for any seryester, candidates must complete satisfactorily at least pine credits on the graduate level each semester.
 $\because$ and investigation with suitable facilities aft under proper. supervision. Students are requiked/to attain general proficiency in 200iogl and in a minor subject in a related field of natural science. All students seeking the Doctor of Philosophy degree rust have completed ail curse requirements of the caster's degree program in Zoology'. They must also pass one foreign language examination "os well as the quality acceptable' dissertation; and pass the final oral examination.

The doctorate is granted only upton evidence, of recognized ability for independent research as demonstrated in a thesis based upon significant and sustained research and not merely on the sum of semesters- in residences. and courses completed.

Formal instruction is offered in all areas of specialization totalizing 30 different courses and seven seminars. Students' may elect to duo researchunder the guidance of any of the eleven graduate faculty members.

Comment
Requirements for the Doctoral degree are typical for a traditional

program. Obviously, the needs of breadth and range. in course work age met.
Student opinion of graduate course content and teaching competence is good to excellent. However, research facilities are severely limited, qualitatively and quantitatively. Graduate faculty as a group are overtaxed with undergraduate as well as graduate teaching responsibilities.

Currently there is an attempt to change the major emphasis in the graduate program in Zoology. Leadership in effecting this change is provided". by. the Zoology Chairman. The following information with regard tor this ¿ner progrgn is taken from a training grant proposal submitted to HIH by the Chairman.

A group of 20 faculty scientists have developed en inter-departuratal, multidisciplinary graduate training and research. program in Cellular and Molecular Biology. This group includes Biochemists, microbiologists, immunologists, geneticists, and cellular and developmental biologists. 'The proposed program will. support research and training at the predoctoral, level for qualified graduate students. $\because$. The major objective of the program will be to train graduate students for teaching and research positions in the areas of cellular and molecular biology. Predoctoral students mill participate ${ }^{\circ}$ in the program through traditional graduate programs in the Departments of Zoology, Chemistry, Mịcrobiofiogy, Biochemistry;' Physiology, and Medicine. In addition, to meet the requirement's of the specificigraduate program, the trainee must meet specific requirement in course work and research experiences outlined by the cellular and Molecular. Biology training program. The trainee will participate in a weekly seminar program and
conduct guided and independent disserertation research under a faculty scientist in the program:

The multi-disciplinary program- is designed to brejk dọn traditional departmental boundaries, making available for the first time in an" organized progita, the skills and tecknicaly expertise in yarious departments which will enhance technical, expernientaf and intellectual interchange among research scientists and trainess. Above all, the establishment of this multi-disciplinary training program will produce a-Zore of well-trained minnority scientis'ts qualified to teach and conduct research in the area of celluillr and quantitative rolectiar biology.

The research and teaching facilities are located in a group of six (6) buildings which are in easy walking distance of each other. Biochenists, Biophysicists, Nicrobiologists, Immongogists, and Cell and Molecular 8iplogists in the program conduct ongoing research and have active laboratories in these faciliaies. Trainees will be located in laboratories and offices in spemific departrents under the direct observation. and guidance of a faculzy " sponsor who is a part of this program.

Predoctoral trainees will be selected from undergraduate progrfamis at Hopard University, other ninority schopl's throughout the country, and other universities.' They must meet all the requirenents for entry into the Graduate School and into, the specific department. Irajnees must deronstrate in'their collegiate record a comitment and aptituce for graduate study in the areas of cellular and molecular biologgy. Support will be for a period of up to 4 years, after which the trainee is expected
to apply for individual fellowship support. : Upon the completion of the program, the trainee will be capable of conducting independent research and teaching in some area of cellular and molecular,biology, in a basic science departrent: and/or in a research institution.

## Corment

An increased emphasis on so-called modern molecular bindogy must mean a decrease in attention paid to "classical" zoplogy. To no one's. surprise, plans for this note aremet by seme resistance as weuld be expected when -prerogative is dipinished or changes hands.

Horiever, it is felt that the change in erphasis for graduate trainifg can be justified. if Hoyard wished to place its doctoral graduates in Fore prestigious positions. The Chafrean points out that Howard has in the "past provided good, traditional. training in zoology. This' classicap approach has in recent years firmited the brightest Ph.D. graduates to carfers in less prestigious institutions. In this manner datery viers in biology continue ta be taught a and further exacerbate the intellectual lag of small colleges behind the zarger universitids.

## 3. Student Enfoliment

The Departrent of Zoology currently has 29 graduate students effrofiled in the Ph.D: program (33 are pursuing a Master's degree). Sot all are. actively dquing research because of course work requirerents. The graduate facuity size-rould be adequate to händle this load provided undérgraduate teaching̣/ loads were limited.

Admission polzcies have been.stated above (see section, Graduaze '

Curriculum). Standards for "admission to graduate work appear adequate. However, Howard University's comitment to minority education at the graduate as well undergraduate level encourages graduate departments accept studeds who are not as well prepared as they should be.

Student aid is in the form of 13 fellowships, 1 teaching assistantship. and 2 tesching fellowships distributed among 62 graduate students. Stipends are $\$ 4,493$ per year: Both forms of support go to the higker academic e. achievers, feaving a-considerablé number of students in the position of obtaining incore therough part-iime jobs and/or loans. Students, corplained that even when supported by fellorships they were often required to hold part-time jobs to make ends meet in Hashington: Financial worries and enforced part-tire occupation compounded do not nake for a positive learniffg environront.

Student opinion of the program is based on discussions with a group $=$ = of trenty or so'individuals composed of students af different points in their graduate career. No faculty were present at the, neeting. The following statements summrize student feeling.
a. Graduate courses areigenamily weil taught; Degree of "diffictuty,". $i, e .$, scholarship demands, is comarable, to that of good graduate schools elsewhere.
$(\because \cdot$
b.' Faculty research adyisors are generally avaitible when needed and are supportive of graduate students in their research efforts.
c. Students say that equipment and supplies necessary for gapd research are seriousty inadequate. "Space and support facilities

(a decent library nearby) are likerise inadequate.
d." Financial support is limited, and barely adequate át best for those receiving sfipends:. Students feit they would be better scholars if not under so much financial strain.
e. Students are supportive of faculty efforts and the administration of the program, They are optimistic about job opportunities for well-trained minority scholars. A. Support Facilities for Docotral Prograr:

- Zoology shares artwenty-two year qid buildirg with Botany and GeologyBeography. Space avaiTable for Zoologynas originally intended for 8 facuilty, $30^{\circ}$ graduate students and 400 undergraduates.
Aligroups are now doubled in number.
Various make-shift arrangements have provided uncomfortable, inađequate. space for graduate students in former walk-in refrigerators, balance rooms,
etc. Aiterations have commonly been made by faculty and students with little help from howard University maintenance people.

Fàculty and graduate research is often carried. out at one end of a laboratory aliso used by undergraduates. Equipment is limited and school maintenance or repur virtually nonexisfent. Sore excellent equipment is ayajable. A late model scintillation counter and spectrophotoneter have been purchased. Several ultracentrifuges äre an service; The Graduate ${ }^{-}$ Dean has been very Eupportive on behalf of the sciencès in their attemptse. . to expand and update their requipment add facilitíes.

Zoology has a small 13 brary-reading room. it is cleariy inadequate.

Uniץersity library facilities will be discussed later.
Comment
Equipment, supplies. and space are in severe shortage. In order to attract and hold good faculty interested in research productivity this shortcoming should be corrected.

The Department of Physiology and Biophysics was authorized in 1958 to initiate a doctoral program. The general objectives of this program are as follows: $\qquad$
"To provide a center of academic endeavor for the development of competent teachers and bell qualified investigators in physiology and related disciplines with special emphasis to increase the number of minority group scientists in this areas Fo provide an adequate atmosphere for developing the thinking modes and processes of an individual comizited to research. To develop anti cures ${ }^{5}$ of inquiry, perseverance, objectivity, and a respect for the principles of logic as applied to the scientific method. To create, respect $=$ for the teaching process as a powerful instrument'for communication and development of ideas and talent. To instill the philosophy that learning is a perpetual process that does not end with thecquisition of a degree."

In order to achieve the objectives outlined, the department has set the following five-year goals. The department projects that the graduate progceic will produce well qualified PhD. physiologists at a minimus rate of 4 per year over the next five years beginning in 1977. Recognizing that, $=$ any graduate program must, be supported by research, the faculty is committed, $t$ to increasing substantially the number of "on-going" supported research programs within the department. In order to develop an" academic, intellectual center arid an atmosphere for developing the thinking modes of an individual, adequate sources of, current information must, be conveniently
availăble to graduate students. Consequently, the department intends a - to establish a physiology departmental library which will serve as a resource for periodicals and reference boŏks in physiology and related areas. In addition the department profects the development of a centralized instments recource and audio-visuàl-repository."

## 1. Faculty

The Department of Physiology and Biophysics has 17. faculty; 4 professors, 7 associate professors. and 6 assistant professors, of these 14 are full-time. Half of the junior faculty are recent graduates from the Howard Doctoral iProgran in Physhology and Biophysics. The Graduate School Deantholds an appointment in the department but plays a swall direct part in graduate training.

The teaching load for the faculty in this department is staggering. The Chairman has provided a summary sheet of teaching responsibilities showing an average of 91 contact hours per yeak per faculty member. This does not inclưe reviey sessions for medical studéñts, graduate student Hesearch ${ }^{\dagger}$ difection aṇd course preparation time.

The overload of teaching responsibifities is reflected in a relatively low degree ef reseaxch productivity, Currently orly 2 faculty are supported by extramural funds (Costello and Trouth). Dr. Holloway administers"a large training grant (for graduate students) budgeted at $\$ 275 ; 000$ for 1976-77. © Dr's. Noolenaar and Trouth are listed as coinvestigators.

Projected increases in faculty size shöild decrease teaching loads and facilitate fncreased research productivity. Dr. Costelio hopes to
add 5 new faculty over the next 5 years (1977-82).. Preference in hiring new faculty will be given to applicants with expertise in areas of physiology that are not presently represented or not adequately represented.

## Comment:

The faculty of Physiology and Biophysics is clearly overloaded with classroom teaching responsibilities. This is particularly hard on younger members who find it difficult to develop ere search program to a point where government funding is possible. Since most will move on, to other schools as they pursue a career it is in their best interests to be productive in research. For this reason one can understand whatever ambivalent feelings junior faculty maya have about crass room teaching., it is worthwhile pointing out that the department houses a number of its own recent graduates. The exact reason is not known for this but is a matter' of some concern... The problem could be absence of job opportunities. At any rate; it is felt that hiring young faculty produced by the same department is not a good general operating policy. It tends to decrease the likelihood of in-: traducing fresh, new ideas into a program of research and teaching, and to further satisfy views that should be challenged. one further point; nothing: serves às advertisement of a good program like itu graduates. Good Howard Ph.D. physiologists should go elserffere and in doing so would encourage bright black science students to continue their education at Howard.
2. The Graduate Curriculum


Thee graduate program in Physiology is designed primarily to lead to the Doctor of Phil sophy degree. The program requires a minimum of three`
-
years, starting with Stage II; a maximum of six years is allowed for completion. In special circumstances a, student may be admitted to pursue a course of study leading to the M.S. degree where that satisfies a special need of the student.

Students. who have expressed the désire to pursue a program or graduate study in Mammalian Physiology and who have been approved following their application at the Graduate School will be eligible for fonsideration. All students are free to apply for admission to the prograr.

## ELIGIBILITY

a. Applicants with a Docfor of Medicine or, Doctor of Dental Surgery Degree
b. Applicants with a Bachielor of Science or Bachelqr of Arts degree. c. - Applicants who meet the requirements of 1 of 2 above, but do not have the adequate number of credit hour may be eligible for accéptance to make. up prerequisites.

## Comment

The prescribed curriculum for graduate students in Phesiology and Biophysics has been designed to give every student a broad background in "phy'sology. "Since many students enter the program with prerequisite courses lacking; time is required to fulfill these needs. For this reason the minimum course work requirement of 38 hours is, usually increased by, 10-15. mare, caurse hours. It is beileved that this adds up to too muich course work. Beyond a point graduate students become disenchanted by further course work and this requirement could be more petrimental tha beneficial to their scholarship:

The position of the faculty is certainly understandable. Graduate students, "while bright enough, are often products of outdated undergraduate" training. They enter the program'short of information and with appreciation of how and where to get it. Revertheless, it is. questionea whether the current curriculum best meets students needs, or best utilizes faculty timg:

$\because\{$ As a possible aiternative, the following is suggested:
a. Remoye Medical Physiology as a year long required course and replace it with a course in physiology specificaliy oriented toward, graduate: student. needs. Hiost Hedical Physiology çourses are not designed for potential scholars. Stress is laid on facts, not on theories; on what experimentation reveals', not on methods of experimentation. A total of 10-12 credit hours should be adequate.
b. The Speciality course requirement should be reduced to between 12 and 15 hours total ( $4: 5$ courses).
These changes would reduce the total course work load to approximately 25 hours but would more likèty produce scholars than students, thatever demands on faculty. time, would be c'reated by offering separate courses for graduate students wiould be compensated by an overall decrease in graduate teaching responsibilịtịes.

## 3. Student Enrollment.

The present student enroilment ing the Department of Physialogy is 23: The mazimurn enrollment as determbed by the department is 30 . The following 'represents a projected' estimate of sfudent enrollment for the period 197.7'82, along with projected admissions, and graduates.
c. Haximum 5 year program: There should be a maximum of 5 years to obtaín the Ph.D. degree. Studerft's shơuld not be admitted to the program With coürse defiçits. If such application are presented, the applicants might be advised to satisfy the entrance requirements before his/her application is considered. Such advice must be construed as a commitment.

ADHISSIOH PROCEDURES:
1 The student must apply for admission to the general Graduate School.
2. The student must provide a letter of intent, a transcript, and three letters of reference to the Graduate Schicol.
3. The Graduate School decides whether the student meets the minimum criteria for acceptance.
4. The Graduate School contacts the departrent to determine if the department is willing to accept the siudent for graduate study.
5. The department evaluates the student's past record, interviews the student where possible and then reaches a decision (to facilitate this step all'students must provide a facsimile of their transc̣ript, letter of reference and letter of intent to the Department of Physiology).
6. The departrient notifies the Office of Admissions of its decision. The Office of Admissions notifies, the students accepted for graduate study.

Comment
Graduate stydents in the Department of Physiology and Biophysics are drahm from the same polol of undergriaduates as those in, Zopjogy and Pharma-
 to, obtain the Ph.D. degree. Studerits should not be admitted to the program With coürse defiçits. If such application are presénted, the applicants might be advised to satisfy the entrance requirements before his/her application is considered. Such advice must be construed as a commitnent. ADHISSION PROCEDURES:
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3. The Graduate School decides whether the student meets the minimum criteria for acceptance.
4. The Graduate School contacts the departrent to determike if the department is willing to accept the student for graduate study.
5. The department evaluates the student's past record, interyiews the 'student where possible and then reaches a decision (to facilitate this step all students must provide a facsimile of their transçript, letter of reference, and letter of intent to the Department of Physiolosy).
6. The departrient notifies the office of Admissioṇs of its decision. The Office of Admissions notyfies. the students accepted for graduate study.

Comment
Graduate students in the Department of Physiology and Biophysics áre drahm from țthe same popl of undergraduates as those in, zoology and Pharma-
cology". A commonly expressed opinion was that course denards are overthelming. Students also complained that very littledirection was offered by faculty advisors in choice of courses, seminars and matters in getneral relating to scholärship.

Claims were made that little effort is made help poorly pepforming students (usually first year students) to improve. Agreement on this point was particularly strong among students of low s.tanding in the program.

There are-18 graduate student fellowships carrying stipends of $\$ 3,900$ per year plus remission of tuition. These monies are supplied by the. Har'C training grant administered by Dr. Holloway.

Total graduate student enrollment is 23,18 supported students is an excellent record. However, a very recent phone conversation with the department chaiman has revealed that firm support for the training program ends with the current year and the level of continued support is an unknown quantity:

## 4: Program Support

Like zoology, this graduate program has been chronically short of space, equipment and suppliés for graduate-and faculty research. Part of the problem undoubtediy resuits from the fact that, while physiology departments in other universities were expanding their programs during the period of easy extensixe government funding' (1960's), this department lay in relative torpór. Expensive equipmenty, easily obtainable for graduate, training during those:years, has not been purchased. The natable exception to this state of affairs is seen in the excellent, well-equipped,
laboratory of Dr. Hawthorne, an internationally known cardiac physiologist. Present and projected space need (as described by the department faculty are listed below).

## AREA

Pulmonary Laboratory200
Endocrinology Laboratory ..... 2,000
Huerophysiology Laboratory ..... 1,300
Cardiovascular Laboratory ..... 1,700Environrental-Renal Laboratory
Muscle Laboratory
Graduate Student OfficeElectronic Shop$600^{3}$600126
600200
Faculty Office ..... 1,400
Administrative officeTOTAL300
PRESENT SPACE (SQ. FT.)

Projected need after 5 years YEAR

ADDITIONAL SPACE HEEDED (SQ. FT.)
1977-78

$$
\mathrm{T}, 0,000 .
$$

1978-79
1979-80
1980-81
1981-82
total'
1,200
${ }_{500}$
500
$j$
and staff increase as well as immediate needs.: Of thë additional space needed, $25 \%$ is p̌resently neded in pulponary and 25\% in Enviroṇmental-Renal. Ten percent is needed, to allow for expansion of the electronics shop in order to service better thé current and 'projected teathing program. Fifteen. percent of the space would be utilized by the Cardiovascular area, and approximately $25 \%$ for facuity offices. It is believed that with the abbve projected increases the program would continue to be successfully implemented.

Two new facillty will be added to the staff this fall. At present there is really no available space for them other than that created by sharing already cramped quarters with o.ther department members. The fact that new faculty space needs will be limited, due to the absence of necessary equipment, is a true but unappealing point to be made.

Graduate students, as.in Zoology; are stuck in nooks and cranies in laboratories, hallyays, etc. There is' no space set aside for sole use by graduate students for research and study areas.

Physiology has no department library. The medical school library meets minimal standards of journals and texts used by faculty and students in phsiology but space again is a premium. Many back-dated journals are kept in University archives, this lfrits easy access. for those wishing to use them.

## Comment

Physiology and Bfophysics is housed in the meedical school and thereby seems to enjoy adequate janitorial and maintenance services. Equipment and supply needs are as inädequatèty met as in Zoology. Space, for new faculty is nonexistent.

The Department of Pharmacology is one of the seven basic sciende departments which provides Ph.D: programs at the Howard: University College of Medicine. Graduate training was established in 1955. Since its inception, the Department has awarded; 33 Ph.D. degrẹes to graduate trainees: Graduates. constitute one of the largest resources of minority pharmacologists and toxicologists for sehools and research laboratories in this country:

There are four areas of subspecializations in the Department. Its most proficient subspecialities are cardiovascular pharracology, behavioral and neuropharmacology, biöchemical pharracology, and toxicology.

The Department presents pharmacologital education to its students as a continuous undertaking through practice and training, using the folloring as broad objectives:

1. To teach medical; dental and pharmacy students. the principles of drug action, providing the pharmacological basis for the understanding, preventfon and treatment of disease processes:
2., To increase the number of minority truainéd pharmacologists and" $\because$ toxicologists at the graduate level th order to fill the demand for teachers in broad,medical education programs, and to fill the need for academic. governmental and industrial personriel in research and investigation.

How rẹal is the need for training minorities in the basic Medicar Sciences? For the period 1958-71 phly 1:3\% of the 39,279 Ph, $\theta$. "degrees in life science were awarded to blacks. At present there are 30 blacks (halif of whom are

Canadian) among 2,500 pharmacologists in North America.
. Not only is there an underrepresentation of minorities in, the area, but presently, there exists a national shortage of pharmacologist and toxicologists as weil, The"major employers of these professionals are universities, Government (F.D.A., Department of Agricưlture, H.I.H., U.S. Labor Department, Wecupational Safety and Health Administration) and industry. Universities have the largest pool of these professionals. The greatest need is in the Department of Labor and Health, Education, and Helfare who share the federal responsibility for enforcement of the Occupational Safety and Health Act of. 1970 which by law requires that safe and heal th work places be proyided for - 111 employees. Pharmacology-Toxicology training is one of the critita for professional areas where expertise is needed to carry out the mandates of this act.

1. FACULTY

The faculty consists of 12 full-time and 10, part-time memberș. In addition to teaching assignments, members are ackively engaged in research projects pertaining to cardiovaṣcular, behavioral, neural, biochemical and toxicological pharmacology. . Reṣearch activity is mainly supported by grants and contract from. federal and private organizátions. Several faculty members have interdiscip ifary research projects involying-the Departments of Oncology, Hedicine, Radiation Therapy, Radiology; P'sychology, Physiology and Biochemistry.

Faculty teaching responsibilities (other than graduate courses). include a Hedical Pharmacology "course (128 sfuents), courses for dental stuđ̈ents
(100) and for School of Pharmacy students (65). Teaching occupies $80 \%$ of $\because$ total faculty effort.

Current mesearch activity is being supported at.a level of approximately $\$ 140,000$ per year: Lack of immediately availabie space acts' to prevent a rapad expansion, but within 18 months, there will be a new Basic Science building - and quncer Center. Upon completion of these buildings, the department shall have appraidmately 2000 sq. ft. of additional research space and an increase in animal faciftios

Since 1955, the yeationhich graduate eduçation in the department began, faculty have published well over 500.sedentific commaications. The high_'
 Productivity is exemplified by 34 scientific qomunteations including 1 ? full papers published in leading scholarly journals and 6 chapters in books by members of the deparitment.

## Comments

The. senior faculty of Pharmacology have excellent crédentials as academicians. Most have international réputations. This is exemplified by Dr. Pradhan's, appointment to the editorial staffs of two international journals in pharmacology. Another staff member, Dr. Booker, has also served on editorial staffs: Junior faculty members, know they are in a good department; this serves aspositive stimulus. Fáculty morale is good. In frank talks with faculty members, strong support was found fpr the chairman, with no major. points of criticism. Pharmacology is understaffed. The addition of 2. or 3 new faculty would probably, correct the situation.

1-2. The Graduate' Curriculem
The general requirement for the admission to the gradiate program is. a Bachelor of Seiencé dégreé in 'Chemistry', Biology or Pharmacy. . Speciat requirements would include undergraduate credits in the following areas:

General inorganic chemistratry (1 year)-
"ganic chemistry $(1$ year)
$\therefore$ - 鹪不 Fhysics: Mechanics, heat; electricity and magnetism ( 1 year)
$f$ General zoology òr molecular biology

- Comparative anatoriy (l course - Vertebrate Embryology ( 7 course)

Admission to graduate work first requires acceptance by the Graduate School. Thiṣ requires completion of a formal application for admisssion as well as suppzying proper transcripts. Secondly, admission to graduate training in Pharmacology requires approval of the Admissions Committee of the Department. An overall " $\mathrm{B}^{n}$ average is a minimum requirement, however, students with a " $B$ " average in mathematics and science courses may be considered. GRE examination must be taken by all candidates for fellowships. The student must score above, the 60th percentile.

Joint degree programs in Pharmacology and Medicine require acceptance to the medical school and approval from the Chafrmañ of the Department and the Dean of the College of Medicine. Students who enter the Graduate School first must spend a minimum of two years as graduate students before entering the College of Medicine. Medical students, after spending 1 year in the College of Medicine, may apply for admission to the Graduate School with the approval' of the Chairmin of the Department and the Dean of the College of, Medicine.

Doctoral requirements are formulated on an individual basis by the candida,te, his 'interdtsciplináry educational advisory committee and mentor (advisor). However, certain general coúrses are indicated as being necessary för all. participants in the program (wiftere possible, completed during the first two years). In addition to courses by the department, other courses may be deemed required by an educational advisory committee.

Students are expected to spend a minimum of six semesters.in residence wholly devoted to graduate study' and investigation:. Students may be admitted to dọctoral çandidacy after completing 45 hours beyond the B.S. degree, successfully completing a profịciency examination in Ënglish writing and comprehension, and successsfully completing the qualifying examination in general pharmacology for the doctoral degree. Proficiency in a foreign language is strongly urged by the faculty. Advanced stidents are expected to do a minimum of 30 hours in course work.

## Corments

Pharmacplogy hias excellent programs in graduate training. The program in toxicology is of special interést since there is no similar program in the Vashington-Bal.timore area. The pharmacology faculty feel the need for graduate, training in this area is acute.

Extra-mural support for the overall graduate programs currently is above $\$ 350,000$ per year. A training grant (approximately $\$ 100,000$ per year) terminàtes June 30, 1978. Funding for the interdisciplinary training program terminated in June (197\%). Further funding. is uncertain,

The Department of Pharmacology doctoral program is well conceived and. is prötuctive. 't should be supported vigorously by the administration.

## 3. Stadent Enrolliment

Present tratinee enrollment is 25 执l-time and 5 part-time students. Individuals accepted into the program come chiefly from black collégos. However, approximately $40 \%$ is divided equally among graduates' of foreign universities and American school's having no ethnic affiliation.

Active recruiting is done in order to increase the number of applicants, and thereby have the opportunity to select more promising trainees." Currently. 40-50 applications per year are screened; 5 to 7 students are accepted.

Admisision policy and procedure is as 'for other departments. 'Occasionaify, Students with less than an overall grade of "B" are accepted, provided they". appear to be good risks for success.ful completion of the program.

Éigheen students (of 30 enrolled) receive financial aid in some form. In 1976:77 funds ayailable for scholarships and loans totalled $\$ 705,000$. University resources accounted for approximately $80 \%$ of these monies.

A meeting with approximately half of the'student twanee population revealed the followiting:

- á. Students have great respect for the academic qualifications of the faculty, but some of the classroom teaching is poor.
b. Students feel the number of pre-requisite courses is too dreat. They complain that too much time and effort t's spent (on theire part) in futfiy ing requifrements in these backgrourid sourses.
c. Students claim that there isn't sufficient space for study and for research. Also, more student aid should be available.
d. . Group opinion regarding faculty support was somewhat negative. Studènts felt they were treated to some degree ilke "orphatins" relative to
attention given to medical sțudentṣ．This is＇particularly so，they said， －In the area of formal course work．：


## Comment

＂Trainees in this program benefit from－exposure to quality research．
Poor teaching semis，unhappily，to be p． environment．Given＂this，＂and the actuartury their other＇complaints， students in Pharmacology enjoy the best graduate program of the 3 medical \＃．science programs surveyed．Improvements can be made－－but are best．made by the department itself．

## 4．$\because$ Program Support

The Department of Pharmacology laboratories occupy approx lately 9,500 square feet of spade（with整 the College of Medicine）all of which have on－ going research projects．These laboratories are capable of carrying on most modern techniques，in phàrmaçology，immunology and biochemistry． Specifically，Pharmacology has temperaturescontrolled column chromatory and electrophoresis，refrigerated centrifuges，Beçham preparative centrifuge， automated liquid scintillation beta and gama counters，therapeutic $X$－ray equipment，lyophylizer，spectrophotometers，fluorophometers，fluormeters，
complete tissue cufluiral laboratory with microscopes，cameras and dual chamber
con incubator，computerized and automated parallel sampler，analyzer，；automated equipment，lyophylizer，spectrophotometers，fluorophometers，fluormeters，
complete tissue cuifurat laboratory with microscopes，cameras and dual chamber
con incubator，computerized and automated parallel sampler，analyzer，automated
 multicolumn gas chromatograph，completely computerized and automat ted cardio－ vascular laboratory and special rooms containing quantities of modern equip－． mont for performing acute and chronic experiments in the neuron－and behavioral sciences．Most of foe laboratory space was designed as multi－

fuhational unit for research and teaching in small groups.
='The enzyme laboratory ( 432 sq . ft.) on the fourth floor of the PreÉlinical Building and the third floor Biochemistry laboratory are available for trainees. A walk-in cold room is also ayailable for conducting protein chromatographic experiments. The eñzyme laboratory is equipped with refrigerated centrifuge, colorimeter, spectrophotometer, incubation bazhs, electrophoresis apparatus and mest of the ancillary equapment necessary for this study. Departmental equipment includes a lyophilizer; preparative ultracentrifuge. and Cary it recording spectrophotometer. The Biochemical and Pharmacelogy. laboratories occuply 1600 , sq. ft. of space and are adjacent to the enzyme' laboratory of Drs. Rhoads and Morris. Together they toma 2035 sq. ft. of space.

The department has a small library-reading room which has a limited = collection of journals of fmediate interest to the staff. Journal selection should be enlarged, "kut insufficient funds are budgeted for this by the University.

More non-academic staff are needed to insure success of the programs in clinical courses in Pharmacology, Toxicology and "Pharmacy. Individuals best"suited would likely be chemists with experience in programmed procedures - and automated clinical determinations. These staff members would also ease faculty teaching loads in ọther laboratory courses.

Increase in student population, both medičal and graduate, necessitate duplitation af some equipment. Current need can be met by an appropriation Qf approximately $\$ 200,000$.

## Comment

Pharmacology is, by far, othe, best equipped and staffed department of the 3 medical service programs surveyed. The support facilities are com-parable-to those of good programs. at other aniversities'.

## General Comments"and:Recommendations-

The doctorai programs in Zoólogy, Physiology and Pharmacōlogy at Hokard, University are all viable ventures, but at vastly different levels of development. 'To some degree this may reflect current attitudes of department' administrators and staff. More likely the disparity, has a histórical basis. For example, the graduate program in Physiology was pcorly developed during the $1960^{\prime}$; ; the result is an overworked staff with little. in the way of research, èquipment; and facilities. Zoology has had an active progrăm for some wime, but a traditional (now dated) cürriculumyrorks against a façile accommodation to more current ideas in training for the biological sciences. Pharmacology offers students an excellent up-to-date, graduate training experience.

Ail three programs suffer to one degree of another from space limitation. The problem.is much more acute in Zoplogy and Physiolegy than in Pharmacology. $\sim$ . Removation of existing space will help to some degree; considering current building-costs, additions to existing buildings could prove very expensive and might be difficult to justify solely on the basis of space needs for graduate students.

Lack of suitable equipment (and supplies) is a serious probiem in Zoology and Physiology. If Howard University frs reaily serious about its
graduate programs in science they will, find a way to correct this. Poorly trained and poorly'educated students advertise a, school as much as well prë* pareed graduates but not in the desired fashion.

Government $\ddagger$ pensored financial support for graduate students is curren'tly in at tenucus condition and could disappear entirely over the next fen years. This would effectively end'Howard's attempts to produce well-prepared academicians in science unless in-house fellowships funds were provjded.

At present Howard provides very little support to graduate programs in Zoology and Pharmácology and no direct support to the Physiology program. There is strong feefing expressed by individual faculty that productive graduate programs are sutencing at the expense fo continuing other programs which wère created a decade ago and which have remained poorly developed or, "in faşó, aré inactive.

Cantpus-wide library facilities are clearly inadequate for graduate fraininge in blologicals, of the three departments surveyed only Pharmacológy hasi an appropriate diversity of journals and up-to-date texts. True, Hashington has a number of excellent university libraries (as well as NIH) atthe disposal of Howard istudents. But, as the chairman of Zoology points outy, Howard students would spend half of their graduate careers commting to and from these facilities if they were used adequately.

Certain clerical and maintenance practices should be mentioned. "A member of graduate professors, particularly scientists, feel their work is hampered by needless delays in the .... processing of research project applications to outside agencies. They cTaim that their applications are
delayed and sometimes lost.....". This is a direct quote from the HEH sharvey repor't of June 1967." Apparently this situation kas pot improved materialty in 10 years. facuity in all three deparments stated that ordering supplies and equipment can be a nightrare. They are not certain whe the problem lies, but claim that they, commonly order and pay for *mall items personally (and often find if difficult to get reimbursedy because of enormous delays if they use the University channels. Finalty, routine jafitorial service appears limited in the two programs housed in the Hedical School and is negligible in zoology.,

These comments have for the most part stressed problems connected with the departrents of the inree programs. But surely the progrars should continue to exist. 'Faculty in all departments take their commitment to provide excellent traj̣ing to minority oraduate stidents very seriousiy: Under the P circumstançes, they are succeeding mightly. The improvement necessary to bring these, frograms to aniversally productive stale are obvious'and the financial requirements realistic. It remains for Howard University to offer more tangible support to improye the status of blacks in American science.

## SUHMARY OF COHCLUSIONS

The previous office of Education report af the Hoyrard University. graduate school written in 1967 pinpointed tife folloming areas of concern:

1. Lack of sufficient student finäciial àitu to. attract and support quality graduate studenqs.
2. Problem of internal handling of research grants, applications, and contracts which fere of ten neediessly delayed and sometimes lost in the clearance process.
3. Headed strengtheeing of the graduate school by proyiding additionat, stdff to assist the vean $\%$
4. Heed for additional faculty and reduction of high faculty turnover.
5. Dilemma of honard's duel mission to provide compensatory cdueation mile at the same time seeking to develop high quality gracuate education.
During the ten intervening years the graduate school has made significant progress whén measured in terms of adiditional doctoral programs, facuity, And gracuates. The Graduate School has been strengthened considerably with the appointment of Dean Hawthorne who is assisted by four associdte deans. The Graduate School admiristers its own budget ifhich had doubled in size since 1974 from $\$ 1.5$ million to $\$ 3.0$ million. The. quality of departmental chairman and faculty is high. Faculty salaxy levels have juproved and are now believed to be'compètitive.

There are, however, ${ }^{\leftarrow}$ nagging problems which sitill remairc. - Hany of the departments surveyed reported lack of sufficient space as a critical need. The uneven support services from the University - maintenance, clerical, and administratiyecontinue to plague the faculty;. thereby contributing to á considerable morale problem.
Several departments rejorted a need för additionalísenior faculty while at: the same time mere concerned about the need. t, $\boldsymbol{f}$ insure that a reasonable number of high quality junior $\$$ faculty are hired and retained. The average teaching load is still, considered to be tom high.

Officials in the Graduate School report that lack of sufficient student financial aid continues to be a major probleme in order to remedy. this situation it is estimated that approximately 150-180 additional grdduate assistantships. forth \$5000 each are needed. Six departments have no financial aid whatsoever.

Anqther source of concern is the quality of the library. It is estimated that to develop this resource into a first quality research library the budget would have to be-increased by at least one hundrea percent.

It was reported that the bio-sciences need additional modern. equipment as most of the basic equipment is at least five years behind current practice. Inherent in this situation is the danger of losing top-quality faculty because of second quality equipment.
Finally, the admission pfocess to the graduate departments remains a problem. Admission to graduate study is not controlled by the Graduate School but is administered centrally by the University Admission Office. In, this situation individual elepartments have considerable responsibility in making admission decisions. As a result, entrance requirements vary significantly fnom fone department to another. In nany cases departments are ${ }^{\circ} \mathrm{m}$ making significant recruitment efforts.

It is recommended, therefore, that the Graduate School office be given greater authority in all phases of the admission process and be permitted to review and establish minimum standards for admission to graduate study.

Further improvement and development of Howard University's doctoral pragrams, will doubtlessly continue. Graduates from these programs ares and will continue to be in cremand. :Care should be exercised, therefore; in selecting: students to enter the various programs. Further expansion to aHard the Ph.D: in other departments probably should not be undertaken until the requisite resources, funding, and services are provided to: the existing doctoral programs.


[^0]:    54

