This report discusses the alternative program structure developed independently at the University of Georgia, by dealing with a particular phase of the National Center for Higher Education Management Systems (NCHEMS) work, i.e., their Program Classification Structure (PCS). Three primary programs presented by NCHEMS are considered as primary functions and three alternative programs are categorized so as to link the outputs of higher education. The alternative program categories are "Direct Student Related Programs"; "Environmentally Related Programs"; and "Inwardly Directed Programs". (MJM)
THE CONCEPT OF A PROGRAM STRUCTURE
AN ALTERNATIVE TO NCHEMS PCS

A paper prepared for the 1972 Annual Forum of
The Association for Institutional Research

by
A. A. Sterns, Director
THE CONCEPT OF A PROGRAM STRUCTURE
AN ALTERNATIVE TO NCHEMS PCS

One need only leaf through the recent literature concerned with Higher Education to note that few of the outputs reveal significant creativity or make significant contributions to the solution of the serious problems confronting Higher Education. There is, however, a bright star on the horizon known under the acronyms of NCHEMS at WICHE. The contributions which have been made by that group can only be expressed in superlatives. For decades to come Higher Education will refer with esteem to the work of NCHEMS.

It is my pleasure to deal with a particular phase of NCHEMS work, i.e., their Program Classification Structure (PCS). Such a huge undertaking as the PCS could only have been attempted through an evolutionary process. Rather than presenting a finished product, the wise men at WICHE have explored every phase involved and have followed such exploration with preliminary papers presented for review and critique on a national level. The preliminary review edition of a Program Classification Structure published in June, 1970, was no exception to the rule. Ben Lawrence, Director of NCHEMS, stated that the preliminary edition was "... published and distributed in order to solicit comments and criticism from the entire higher education community."

I am responding to the NCHEMS PCS by discussing the program structure which was developed independently at the University of Georgia under a Ford Foundation Grant. Incidentally, the Ford Foundation is also a funding source for some of the NCHEMS efforts. The University of Georgia Program Structure is not at odds with NCHEMS and we are convinced that our structure and the evolution of many others ideas still being developed at WICHE will meld together as they must!

To avoid semantic differences it is important to define a few expressions used in connection with a Program Structure.

We are tempted to consider the three "primary programs" presented by NCHEMS as primary "functions" rather than "programs". We find that the NCHEMS group itself might not have disagreed with our notion as they have stated when explaining the sample crosswalk, "... the function is ... instruction, central administration, student services etc. ..."
Function, Program, and Activity are words which deserve to be dealt with. Are the areas dealing with instruction, research or service, functions or are they programs or activities, or are they all three?

We can discern without difficulties four functions a University serves. The schematic on the following page represents our interpretation. We interpret functions as the natural endowments of an organization. By itself a function has no direction. Within the University those four functions, three of which are recognized in the NCHEMS PCS (instruction, research, and service) have evolved to be complex, intermingled and interdependent. The exponent and center point within the University, the Professor, is by his actions a conserver of culture, a generator of knowledge, a disseminator or instructor, and through his social commitment and that of his University, he serves the public.

One method of directing a function is to program it. "Programming", therefore, by necessity is vested in those entitled to determine the outputs of an organization and to allocate the necessary resources.

When speaking of a "program" we cannot be satisfied to use general terminology, but must define in the narrowest sense the objectives and outputs for which each program is designed. Through "instruction" as an activity and as a function we might produce the educated man as the final output. We may find that other activities such as research will also contribute to that final output. However, as soon as we attempt to narrow the output and interconnect the elements which produce such outputs within a given structure, we have difficulties untangling the webb we might have created. We were confronted with this particular dilemma when attempting to link up the PCS structure with obvious University outputs.

We did not question that what is shown by NCHEMS as "Primary Programs" will lead to a final output of the University, i.e., the "educated man". The difficulties were encountered when we narrowed the outputs to degrees and still more when we narrowed them to specific categories of degree-majors, which we recognize as "program-packages". We do not question that the activities indicated in the "Support Programs" also contribute to final and specific outputs.

The NCHEMS Program Classification Structure nomenclature is helpful in perceiving the deep understanding the WICHE group had when presenting their structure to bring elements into sectors, categories and what they perceived to be the programs. As we recognize those
FUNCTIONAL OVERVIEW OF THE UNIVERSITY

UNIVERSITY

FUNCTIONS

PRESERVER OF CULTURE AND CIVILIZATION

DISSEMINATOR OF KNOWLEDGE

GENERATOR OF KNOWLEDGE

ACCUMULATOR OF KNOWLEDGE

CAPITAL

HUMAN CAPITAL

Generates

Discounted/Input Earnings / Cost

Societal Indicative Measures

Economic
(Example: Agriculture in Georgia)
1950 Average Farm Income
$1000
1970 Average Farm Income
$1000

Societal Indicative Measures

Economic – GNP
Indicative Social and Cultural

MEASURE OF BENEFIT

Through Service
"programs" to be more in the nature of "functions", we could also not help but perceive them as "activities" and the classification structure becoming a nomenclature, the center of which we certainly recognized as the PROGRAM ELEMENT. As we will later illustrate that same Program Element (Course) is our basic input into Programs as we see them.

Our interpretation of the NCHEMS Program Classification nomenclature, reproduced on the next page, takes this form:

<table>
<thead>
<tr>
<th>PROGRAM ELEMENT</th>
<th>ACTIVITY LEVEL</th>
<th>PERFORMED ON</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PROGRAM ELEMENT</td>
<td>ACTIVITY LEVEL</td>
<td>PERFORMED ON</td>
</tr>
<tr>
<td>REPRESENTS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PROVIDED THROUGH</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

In other environments, such as governments, difficulties have arisen when attempts were made to crossover from organizational units to what we will later state to be programs. Such difficulties may have dissuaded many from pondering whether or not the organization of a University by itself is not an indicator of the organizational outputs thus presenting itself as a natural "Program Structure".

We will recognize that within a university as in other organizations, "Programming" rests with its governing body, the Board of Regents, the Board of Trustees or others who have the powers to make decisions. Most of our universities have a long tradition and programs have been derived from the inherent functions with which the university is endowed. It should not, therefore, be surprising that the organizational structure of a university is much more related to programs than we might find in other environments.

We have pondered long and hard about the relationship of outputs to the various activities within the process. Organizationally a university is made of a number of schools divided into specific departments and institutes. In each department and school, we find instructional activities concentrated in courses, laboratories, seminars, etc. Research activities mostly interact with instruction activities, but in addition are often directed as individual or group projects and have outputs of their own. The same can be said of service activities.
WICHE PROGRAM STRUCTURE

CAMPUS

SUPPORT PROGRAMS

6.0 INSTITUTIONAL SUPPORT

7.0 INDEPENDENT OPERATIONS

1.0 INSTRUCTION

2.0 ORGANIZED RESEARCH

3.0 PUBLIC SERVICE

4.0 ACADEMIC SUPPORT

5.0 STUDENT SERVICE

1.1 Regular Instruction
1.2 Special Session Instruction
1.3 Extension Instruction (for credit)
1.4 Experimental Instruction

2.1 Institutes & Research Centers
2.2 Individual or Project Research

3.1 Departmental Continuing Education
3.2 Organized Extension Continuing Education
3.3 Organized Extension Community Service

3.4 Community Service
3.5 Agriculture: Extension Service

4.1 Libraries
4.2 Museums & Galleries
4.3 Audio/Visual Services
4.4 Computing Support
4.5 Ancillary Support

5.1 Social & Cultural Development
5.2 Supplementary Educational Service
5.3 Counseling & Career Guidance
5.4 Financial Aid
5.5 Student Support

6.1 Executive Operations
6.2 Financial Operations
6.3 General Administrative Services
6.4 Logistical Services
6.5 Physical Plant Operations
6.6 Faculty & Staff Services
6.7 Community Relations
Activities within organizational units are managed by a hierarchy which households input resources, does the operational planning, and makes logistic decisions. They are deeply involved in all the processes and are, as individual units or groups of units, contributing to program outputs.

To discern and identify programs within the organizational structure, a study of objectives and the interplay of functions is a basic prerequisite. Those responsible for creating new programs or determining the continuation of existing programs have the same responsibility.

Upon analysis of the eleven major objectives isolated in a recent self-study by the University of Georgia, it became obvious that the production of the educated man permeated all of the objectives. Involved in that production are implicit and explicit benefits which the recipients of education receive.

Since the basic process of producing the educated man rests within the varying activities of knowledge, dissemination and research interaction and is concentrated upon the student, we isolated as a major grouping.

*THE STUDENT—RELATED PROGRAMS*

Research and service need not by necessity be concentrated upon the student. As we illustrated the functions and identified the University objectives we found that the University to a great extent serves its environment; thus we isolated a second grouping:

*THE ENVIRONMENTALLY RELATED PROGRAMS*

By suboptimizing these two major groups and identifying specific outputs we were able to present one concept of a program structure differing from, but not incompatible with that of NCHEMS.

One often relegates in conceptualization important facets within processes which are supporting a structure. NCHEMS certainly has not made that mistake and has presented in their structure all supporting elements.

*THE SUPPORT PROGRAMS*

In our model of a program structure, important institutional input support was ignored. Due to the infant state of the art in Institutional Research, the outputs of these support inputs need much more study. It is by no means asserted that whatever program structure is developed approaches perfection but must constantly be refined and updated.
### ONE CONCEPT OF A MULTIVERSITY PROGRAM STRUCTURE

<table>
<thead>
<tr>
<th>PROGRAM</th>
<th>EFFORT</th>
<th>MEANS</th>
<th>OBJECTIVES</th>
<th>OUTPUT</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CORE</strong></td>
<td>Regular</td>
<td><strong>INSTRUCTION</strong></td>
<td>Enlargement of Encyclopedic Knowledge, Stress on Socio-Biological Factors, Development of Logical Processes</td>
<td>A-A</td>
</tr>
<tr>
<td>Honors</td>
<td>Remedial</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### DISSEMINATE/RESEARCH

**UNDERGRADUATE**
- Majors
- Professional Fields
- Stress Methods and Systems
- Scholar/Student Interaction
- Test Research Methods
- Supplemental and Random Encyclopedic Knowledge
- Complete General Education
- Prepare for Higher Level Education
- Base for Professional Development

**PROFESSIONAL**
- Law
- Pharmacy
- Education Etc.
- Acquisition of Specific Knowledge and Techniques
- Development of State of Art in Profession
- Develop Innovativ and Creative Capabilities in Arts, Science and Technology
- Develop Basic Capabilities in Professional Areas

**GRADUATE**
- Advanced Knowledge in Various Fields
- Advanced Professional Knowledge
- Scholarly Research
- Activity on Highest Plane
- Research
- Advanced Study of Specialized Scientific Work in Chosen Field

#### RESEARCH/INTERACTION

**CONTINUING EDUCATION**
- Credit Courses
- Non-Credit Courses
- Prof.-Updating Courses
- Self-Enrichment Courses
- Conferences
- Colloquia
- Lectures
- Etc.

**SERVICE**
- General Service
- Specific Service
- Sponsored Research
- Specific Research
- Research and Service by Institutions or Otherwise

#### ADVANCEMENT

**SERVICE TO THE PUBLIC**
The WICHE structure of support programs depicts:

- Academic Support
- Student Support
- Institutional Support
- Independent Support

The following comments will be made:

**Academic Support**

**Libraries**

The most extensive operations within the academic support group are the Libraries—consisting of all activities which directly support the operation of a catalogued or otherwise classified collection of published material. Many issues involving the libraries are at present unresolved. The computer has definitely made an impact and questions such as replacement of books by different arrays of cybernetic devices should be asked. Research on operational characteristics of libraries is still inadequate. With limited information available about measurements of library performance and with little experimentation dealing with value structure upon which to compare alternatives, the library’s location in a Program Structure can only be described in vague terms.

Several characteristics of libraries stand out that tend to highlight the difficulties of placement within the program structure:

- Libraries sometimes exist apart from universities.
- The closer a library is to users of that library the more useful it will be.
- As more material is collected in a library, the more convenient it will be for the user.
- The velocity of circulation of specific material contained in a library range from zero to a very high indicator.
- There is very little direct relationship between the use of the library and specific disciplines, e.g., the law library, the science library, etc.
- The library contains a depository of cultural values.
- The library is a research resource.
- The library is the basic resource for students and teachers alike!

From this partial list of library characteristics, two library functions stand out:

(a) the storage function, and
(b) the retrieval function.
Since the capital outlay for the library and its storage function is basically a cultural one, it can be assumed as a subfunction of a specific environmentally related culture program. The retrieval function is important in both the teaching and research programs and might have an impact on service programs. The development of procedures for the division of cost might be necessary.

*Museum and Galleries*

Any activities surrounding the operations of museums and galleries would also be considered a culture subprogram.

We often mistake the relationship of an activity to a program. Some of the following comments reflect our thinking in this regard.

*Audio-Visual Services*

These services encompass investments and activities of a purely organizational nature more appropriately related to costing procedures. Thus, it is ignored in this consideration of program structures.

*Computing Support*

The arguments above also hold for computing support.

*Ancillary Support*

In the WICHE Program Classification Structure, ancillary support such as teaching hospitals and demonstration schools are mentioned. Such activities in our model are program elements (in this case ancillary to the medical courses or courses in teacher education) and are not acceptable either as programs or subprograms.

*Student Service Programs*

*Social and Cultural Development*

As such activities are basically supported by the student body financed from a special fee paid by the student, it could be argued that such activities are outside the realm of university programs. Such activities include student associations, student newspapers, dances, cultural events, student clubs, fraternities, special interest groups, swimming pools, golf courses, bowling alleys, etc. Inter-collegiate sports also could be classified in this category. While university involvement in these activities is at best tangent, the
outputs of such categories indicate cultural involvement. These activities, therefore, are compatible with a cultural program which can be isolated.

**Supplementary Educational Service**

WICHE'S structure designated this category as remedial actions taken by universities. In our model this service clearly would be a subprogram in the lower-level or Core Program.

**Counseling and Career Guidance, Financial Aid and Student Support**

These activities are cost centers rather than programs. Basically these activities are cost-elements chargeable to programs, but only after sufficient studies are available can cost allocations to the proper programs be made.

**Institutional Support**

WICHE has listed the following activities under this grouping:

- Executive Management
- Fiscal Operations
- General Administrative Services
- Logistical Services
- Physical Plant Operations
- Faculty and Staff Services
- Community Relations

As we delved deeper into a university’s structure, objectives, outputs and programs, one conclusion overshadows all others: that it is dangerous to compare an institution with a private enterprise productive unit. This conclusion, affecting both program structure and costing methodology, persuaded us that a third group of programs were necessary:

**THE INWARDLY DIRECTED PROGRAMS**

Executive management, fiscal operation, general administrative services, logistic services, and faculty and staff services obviously are part of a program of administrative services, the goal of which is to preserve the mere existence of the university. Activities concerning the physical plant are related to certain types of costs. Activities related to community relations can be classified only after individual activities are isolated.

It appears that two important university activities, admissions and registration, have not been highlighted in the WICHE structure. We intend to treat these activities as cost-centers.

**Independent Operation**

Since university outputs do not depend on any independent operation they could be ignored in this discussion.
Our new oversimplified PCS can now be shown as follows:

**CATEGORIES OF PROGRAMS**

**PROGRAM**

- **Direct Student Related Programs**
  - **CORE**
  - **UNDERGRADUATE**
  - **PROFESSIONAL**
  - **GRADUATES**

- **Environmentally Related Programs**
  - **CONTINUING EDUCATION**
  - **RESEARCH**
  - **SERVICE**
  - **PRESERVATION OF CULTURE**

- **Inwardly Directed Programs**
  - **GENERAL ADMINISTRATION**
  - **BUSINESS ENTERPRISES**

**OUTPUT**

- **THE EDUCATED MAN**
  - to improve capabilities
  - to generate new knowledge
  - to preserve man's traditions

- **to oversee programs**
  - to preserve the university

As we progressed with the development of the basic program structure, some sub-programs became readily apparent. Others are being structured in consultation with the responsible deans and department heads. We are firmly convinced that when dealing with student-based university outputs the activities surrounding diversely arranged courses of instruction are the basic program elements.

Elements which form the basis for research and service programs are found in the individual research and service projects. As we see it now, the latter element can presently only be structured in a more or less crude form and its substantial refinement may proceed slowly.
Our structure has in common with NCHEMS that the instructional course, the research project and the service project are the Program Elements or the lowest component measure as shown in the next schematic. There is also the bridge through methods of quantification and costing to cross over from the organizational unit to the programs. Within the INPUT–PROCESS–OUTPUT PARADIGM of the university we isolated the five important crossovers from:

1. Funds available — to
2. Things we must buy (line items)
3. Functions we are serving
4. Activities we are involved with, and
5. Program outputs we are producing.

These crossovers must be attained on every level (vertical) and institutional entity (horizontal) of the university. As we had to convince ourselves that our Program Classification structure is workable we have concentrated on a Program Budget and Accounting document where such crossovers are amply quantified. The schematic on page 14 illustrates the micro-universe of the university; a micro-universe because it is applied to a department, the lowest level in the university hierarchy. It also demonstrates the five important crossovers.

**SUMMARY**

We consider NCHEMS PCS as a taxonomy of activities within the processes of higher education. That taxonomy is of prime importance since it classifies the major activities and brings them down to Program Elements—i.e., from “Instruction” to “Courses”; from “Research” and “Service” to “Projects”. To bring this taxonomy together within our concept we could best illustrate it as follows:

**WICHE**

<table>
<thead>
<tr>
<th>Major Activity</th>
<th>Sub Activity</th>
<th>Activity concerned with discipline</th>
<th>Subclassification</th>
<th>Place of Activity</th>
<th>Specific Activity</th>
<th>WICHE Major Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEORGIA CONCEPT:</td>
<td>SUB CATEGORY</td>
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<td></td>
<td>WICHE Major Activity</td>
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<tr>
<td>Program Category or Package</td>
<td>PROGRAM ELEMENT</td>
<td>INPUT INTO:</td>
<td></td>
<td></td>
<td></td>
<td>WICHE Major Activity</td>
</tr>
<tr>
<td>Program</td>
<td></td>
<td>Instruction</td>
<td></td>
<td></td>
<td></td>
<td>WICHE Major Activity</td>
</tr>
<tr>
<td>Program</td>
<td></td>
<td>Regular</td>
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<td></td>
<td></td>
<td>WICHE Major Activity</td>
</tr>
<tr>
<td>Program</td>
<td></td>
<td>Physical Sciences</td>
<td></td>
<td></td>
<td></td>
<td>WICHE Major Activity</td>
</tr>
<tr>
<td>Program</td>
<td></td>
<td>Physics</td>
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<td></td>
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<td>WICHE Major Activity</td>
</tr>
<tr>
<td>Program</td>
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<td>Lower Division</td>
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<td></td>
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<td>WICHE Major Activity</td>
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<tr>
<td>Program</td>
<td></td>
<td>Course</td>
<td></td>
<td></td>
<td></td>
<td>WICHE Major Activity</td>
</tr>
<tr>
<td>Program</td>
<td></td>
<td>BS Major Physics</td>
<td></td>
<td></td>
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<td>WICHE Major Activity</td>
</tr>
<tr>
<td>Program</td>
<td></td>
<td>BS Degree</td>
<td></td>
<td></td>
<td></td>
<td>WICHE Major Activity</td>
</tr>
<tr>
<td>Program</td>
<td></td>
<td>Any other degree where requirement or elective</td>
<td></td>
<td></td>
<td></td>
<td>WICHE Major Activity</td>
</tr>
<tr>
<td>Program</td>
<td></td>
<td>Core-Hard Sciences</td>
<td></td>
<td></td>
<td></td>
<td>WICHE Major Activity</td>
</tr>
<tr>
<td>Program</td>
<td></td>
<td>Student Related</td>
<td></td>
<td></td>
<td></td>
<td>WICHE Major Activity</td>
</tr>
</tbody>
</table>
UNIVERSITY OF GEORGIA
BUDGET AND ACCOUNTING DOCUMENT,
Fiscal Year 1972

(1) FUND GENERATED

<table>
<thead>
<tr>
<th>Type of Income</th>
<th>$ Previous</th>
<th>$ Current</th>
<th>$ Proposed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ga. Appropr. (Formula Net)</td>
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</tr>
<tr>
<td>Stud. Fees &amp; Other Income</td>
<td>72,058</td>
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<tr>
<td>TOTAL FORMULA</td>
<td>340,469</td>
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<tr>
<td>Federal Grants</td>
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<tr>
<td>Other Grants</td>
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<td>TOTAL</td>
<td>393,469</td>
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</table>

(2) LINE ITEMS

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<tbody>
<tr>
<td>1.0</td>
<td>Department Head</td>
<td>25,000</td>
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</tr>
<tr>
<td>1.5</td>
<td>Full Professor</td>
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<td>3.0</td>
<td>Associate Professor</td>
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</tr>
<tr>
<td>6.0</td>
<td>Assistant Professor</td>
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</tr>
<tr>
<td>3.0</td>
<td>Instructors</td>
<td>27,000</td>
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</tr>
<tr>
<td>6.0</td>
<td>Graduate Assistants</td>
<td>55,000</td>
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<td></td>
</tr>
<tr>
<td>20.0</td>
<td>Total Academic &amp; Instructor</td>
<td>310,000</td>
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<td></td>
</tr>
<tr>
<td>5.0</td>
<td>Counselor</td>
<td>8,000</td>
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<td></td>
</tr>
<tr>
<td>4.0</td>
<td>Clerical</td>
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</tr>
<tr>
<td>25.0</td>
<td>TOTAL PERSONNEL</td>
<td>340,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10.0</td>
<td>Supplies</td>
<td>10,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10.0</td>
<td>Travel</td>
<td>30,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10.0</td>
<td>Department Equipment</td>
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</tr>
<tr>
<td>15.0</td>
<td>TOTAL ALLOTMENT</td>
<td>390,000</td>
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</tbody>
</table>

(3) FUNCTIONAL DISTRIBUTION

<table>
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<tr>
<th>Level</th>
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<tbody>
<tr>
<td>1.0</td>
<td>Instruct. Administr</td>
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<td>222,254</td>
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<td>0.0</td>
<td>Academic Counsel</td>
<td>8,000</td>
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<tr>
<td>3.0</td>
<td>General Research</td>
<td>3,500</td>
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<tr>
<td>2.0</td>
<td>Sponsored Research</td>
<td>33,574</td>
<td></td>
<td></td>
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<tr>
<td>2.0</td>
<td>Service</td>
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</tr>
<tr>
<td>25.0</td>
<td>TOTAL</td>
<td>390,000</td>
<td></td>
<td></td>
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</tbody>
</table>

(4) ACTIVITY DISTRIBUTION

<table>
<thead>
<tr>
<th>Activity</th>
<th>Level</th>
<th>No. of Courses/Sections</th>
<th>No. Students</th>
<th>SCH</th>
<th>TCH</th>
<th>DOLLARS</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Instruction</td>
<td>LL</td>
<td>3/32</td>
<td>874</td>
<td>4370</td>
<td>160</td>
<td>46,940</td>
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<tr>
<td></td>
<td>UL</td>
<td>7/38</td>
<td>584</td>
<td>2920</td>
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(5) PROGRAM CONTRIBUTION

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RESEARCH

| Project | DOLLARS | |
|---------|---------||
| NY2 | 22,500 | |
| UGA 506 | 12,000 | |
| Project A 141 | 12,400 | |
| NSF 506 | 1,400 | |

SERVICE

| Project | DOLLARS | |
|---------|---------||
| Georgia TNST | 18,500 | |
| Project S 506 | 12,400 | |
| Project S 507 | 4,700 | 35,600 |