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ABSTRACT

The 1972 edition of the Program Classification Structure (PCS) is revised, using essentially the same framework but with additional categories and more detailed definitions. The PCS is a framework that permits the classification of a postsecondary education institution's resources and programs/activities as they relate to the accomplishment of institutional objectives. Programs may be assigned to eight categories: instruction, research, public service, academic support, student services, institutional support, independent operations, and student access. In each category, specific activities are categorized by subprograms. The PCS was intended as an instrument for organizing information, but has been used for objective-oriented planning and management at several institutional levels. (Author/MSE)

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PROGRAM CLASSIFICATION STRUCTURE:

SECOND EDITION

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Review Edition
Technical Report 101

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- facilitate exchange of comparable data among institutions.
- facilitate reporting of comparable information at the state and national levels.

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**PROGRAM CLASSIFICATION STRUCTURE:
SECOND EDITION**

Review Edition
Technical Report 101

PROGRAM CLASSIFICATION STRUCTURE:

Second Edition

Review Edition
Technical Report 101

DOUGLAS J. COLLIER

AUGUST 1976

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ACKNOWLEDGMENTS

The development of the second edition of the Program Classification Structure represents the efforts of many individuals. Perhaps it is most appropriate to first acknowledge the efforts of Warren Gulko and those individuals who worked with him in developing the first edition of the PCS. This second edition is basically an extension of their efforts and an attempt to revise that first edition to better serve a changed postsecondary education environment.

In developing the second edition of the PCS, the NCHEMS staff drew upon a wide diversity of organizations and viewpoints, often involving them in the development process in a formal way. For example, the revision of the Instruction program (1.0) was guided in large part by a task force representing the Coalition of Adult Education Organizations, while a committee of the American Association of Medical Colleges aided considerably in the development of the two patient-care-related subprograms. In addition to these formal developmental efforts, numerous individuals and organizations assisted by reviewing various drafts of the structure and providing their input to the NCHEMS staff. While it is impossible to list each of these individuals here, the author wishes to acknowledge the major role they played in developing this edition of the PCS and to thank them for their efforts.

Finally the author would like to extend his special thanks to Dennis Jones, Clara Roberts, and Mike Hardesty who provided considerable assistance in the development of each of the drafts of the structure and to Linda Smith for her patience and assistance throughout the project.

PREFACE

Many educational institutions and state- and national-level agencies have used the first edition of the Program Classification Structure (PCS) since it was published in 1971. However, since 1971 both the nature of planning and management in colleges and universities (for example, planning in a steady-state rather than a growth climate) and the introduction of the much broader concept of postsecondary education (which includes traditional as well as nontraditional programs and colleges as well as churches, businesses, labor unions, and other noneducational sponsors of educational programs) have combined to require that a second edition of the PCS be developed. This document is a field review edition of the *Program Classification Structure: Second Edition*. As such, it is intended that readers will critically review the revised PCS in order to assess both its strengths and weaknesses in serving their current planning and management needs. This field review edition will then be revised and a final edition published. It is anticipated that a final edition will be completed by mid-1977. It is hoped that all readers will provide the NCHEMS staff with feedback concerning their assessment of the field review edition of the structure. All comments, criticisms, and suggestions should be forwarded to:

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INTRODUCTION

In January 1972, the National Center for Higher Education Management Systems (NCHEMS) published the first edition of the *Program Classification Structure*.* It represented the culmination of more than two years of effort in which representatives of all sectors of higher education worked to develop a programmatic framework for looking at higher education activities. The first edition of the Program Classification Structure (PCS) represented somewhat of a landmark in higher education planning and management in that it served as both a common language and as a starting point for "program-oriented" planning and management. Since its introduction, the PCS has been either adopted directly or adapted for specific purposes by hundreds of higher education institutions, by many state level planning agencies, by most federal level educational planning agencies and by several foreign countries.

It is safe to say, however, that the first edition of the PCS and the structure it described reflected the realities of planning and management in 1972, realities that have changed since that time. The original PCS represented a fair approximation of a programmatic framework, but it was not a conceptually consistent program structure. The developers of the original PCS were forced to make certain compromises in the interests of feasibility, acceptability, and the state-of-the-art in higher education planning and management at that time. However, both the level of acceptability and the understanding of program-oriented planning and management have changed significantly since 1972. Therefore it is important that the PCS reflect these changes in the understanding and acceptability of program-oriented planning and management.

A second, and just as important, rationale for revising the PCS, is that the higher education enterprise has changed markedly since 1972. Planners and managers today are focusing more and more

on educational programs within a much broader concept called postsecondary education rather than restricting themselves to the more limited "collegiate" concept of higher education.

To improve the utility of the PCS for planning and management in a postsecondary education context and to adapt to the changes that have occurred in people's understanding and acceptance of programmatic planning and management, the PCS has been revised. Once again, an extensive effort involving persons throughout postsecondary education was carried out to determine what revisions were needed and how they could best be implemented. In many ways, the effort to revise the PCS has formally involved even more organizations than were involved in the development of the original PCS. For example, the American Association of Medical Colleges (AAMC) worked with the NCHEMS staff for more than a year to develop definitions and categories for classifying medical care activities. The Coalition of Adult Education Organizations (CAEO), a coalition representing fifteen different adult/continuing education associations, appointed a task force that spent almost a year expanding the classification scheme within the Instruction program to serve adult/continuing education needs. Finally, input from such organizations as the American Association of College Registrars and Admissions Officers, the Association for Educational Communications and Technology, and National Collegiate Athletic Association was solicited and used extensively in developing the revised PCS categories and definitions.

While the revised PCS is essentially the same framework as the one set forth in the original PCS, it is hoped that this revised structure, the additional categories, and the more detailed definitions, will better serve today's educational planners and managers. It is recognized that postsecondary education as an entity will continue to evolve and change as will the state-of-the-art in the "science" of educational planning and management. This

*Warren W. Gulko, *Program Classification Structure, First Edition* (Boulder, Colorado: Western Interstate Commission for Higher Education, 1972).

edition of the Program Classification Structure reflects an attempt to incorporate the changed nature of the PSE entity, the existing state-of-the-art in educational planning and management, and the current attitudes and needs of the practitioners in 1976 and the foreseeable future.

What is the PCS?

The Program Classification Structure is a framework that allows for the classification of a post-secondary education institution's resources and programs/activities in accordance with their relationship to the accomplishment of institutional objectives. It was developed to allow planners and managers in colleges and universities to relate information to the programs and activities institutions carry out to achieve their objectives. Specifically, the PCS is a logical framework that allows an institution to array information in a hierarchical disaggregation of programs, in which a "program" is defined as an aggregation of activities serving a common set of objectives. There are eight major categories called "programs" at the highest level of aggregation in the PCS, each of which can be further disaggregated into subprograms (see Figure 1). The eight "programs" in the PCS are the following:

- 1.0 Instruction
- 2.0 Research
- 3.0 Public Service
- 4.0 Academic Support
- 5.0 Student Services
- 6.0 Institutional Support
- 7.0 Independent Operations
- 8.0 Student Access

These eight "program categories" do not represent institutional objectives; rather they are a prototype list of the "programs" an institution would undertake to attain its objectives. Also the PCS categories may or may not relate directly to an institution's organizational units, depending upon how closely organizational units correspond to objective-oriented programs.

The conceptual building block for the PCS is the "program element." A program element is a discrete management unit composed of a collection of resources, technologies, and policies that

through integrated operation produce goods or services (an output) that is of value to the organization because it contributes to the achievement of an institutional objective. The program element is the building block because it represents the smallest, unique collection of resources that are output-producing activities; that is, a set of resources and activities integrated in such a manner that no one activity or resource, without the contribution or support of the others, can contribute to the objective in a measurable fashion. An instructional course is an example of a program element. For instance, an introductory physics course is:

- a. a collection of resources and technologies (such as faculty, technicians, labs, and equipment);
- b. integrated through a series of activities (for example, lectures, labs, discussion sessions);
- c. in a manner defined by a set of guidelines and policies (section size, class size, and the like);
- d. to produce a specific output (such as an increased level of knowledge of the basic principles of physics for one or more students);
- e. that which contributes to an institutional objective (for example, the provision of knowledge and learning).*

The assignment of program elements to programs should be based on the *primary intent* of the program element, that is, the basic purpose or major reason for establishing and maintaining the program element. Moreover, programs should be structured so that program elements that produce similar outputs are included within the same program.

Although the program element is the conceptual building block for the PCS, the lowest level of aggregation in the structure itself represents a classification of "types of activity." In some instances the program element and the type of activity may be synonymous, but they are often different. For example, in subprogram 6.3, General Administration and Logistical Services, one of the subcategories is "Transportation Services (585)." Transportation services are a type of activity but the institution may be organized in such a way that this type of activity is synonymous with a program

*Program Classification Structure, Technical Report 27, p. 14.

REVISED PROGRAM CLASSIFICATION STRUCTURE

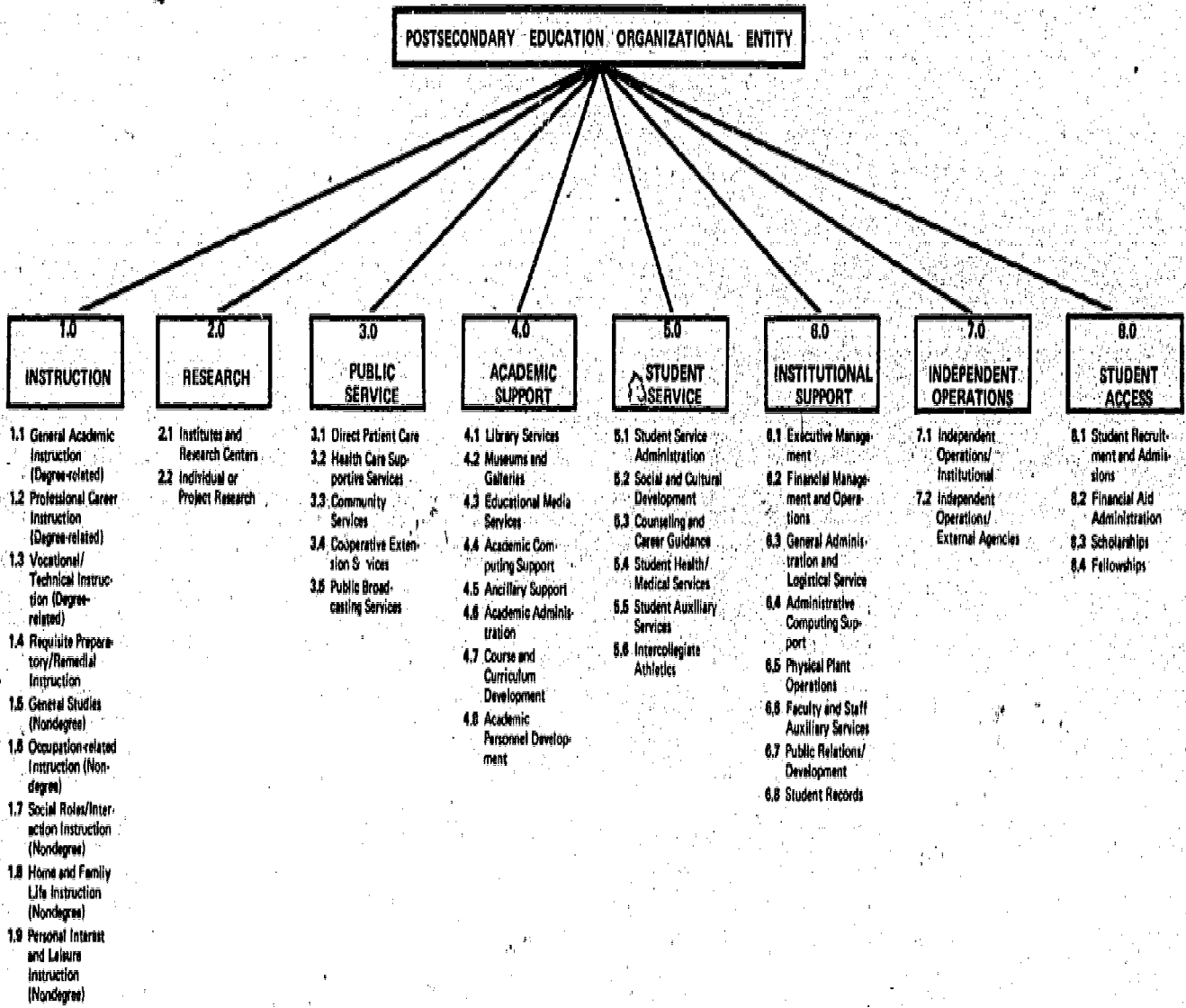


FIGURE ONE

element (an organizational unit). However, there will obviously be instances in which such a relationship between type of activity and program element does not exist. In those instances the PCS categories will be based upon types of activities rather than program elements at the lowest level of aggregation.

What is the Role of the PCS in Planning and Management?

The Program Classification Structure was designed to allow its users to relate resource and activity/program information to the achievement of objectives. It does this by providing for the classification of an institution's activities in a framework based on the programs institutions use to accomplish their objectives. However, the uses of the PCS have evolved to the point that it is now being used for many different purposes. The characteristics of the PCS itself have had more to do with the roles it plays than did any preconceived notion about what those roles should be when the original PCS was developed. The focus of the PCS on programs has made it a useful organizing structure for many different kinds of data; its programmatic classification criteria have made it an often-used starting point for objective-oriented planning and management; the hierarchical disaggregation of programs into subprograms has provided users with a programmatic framework that could be used at several levels within the institution; its comprehensiveness, compatibility across institutional lines, and use of detailed definitions have made it useful as a common language throughout postsecondary education. The following paragraphs describe in more detail the basic characteristics of the PCS and the relationship of those characteristics to the planning and management roles it has assumed.

Focus on programs: The fact that the PCS focuses on programs has made it useful for analyses involving different kinds of data. Most data formats are "data specific" in that they are designed to serve the unique characteristics of one particular type of information (for example, personnel data, financial data) and therefore they have limited utility for analyses that require the integration of several different kinds of data. This ability to classify many different kinds of data in the same structure

is particularly important when one wants to link different kinds of data. For example, a cost analysis requires linking and integrating information about people, finances, facilities, time, and so forth. To determine the "cost" of a particular level of instructional output, one must link faculty time to faculty salaries, and to the costs of facilities, equipment, and so forth. Such a linking process would be impossible without a single data framework that accommodated all of the different kinds of information. The PCS, by focusing on programs, allows the analyst to use the PCS as a format for conducting cost analyses and other analyses involving different kinds of data.

The programmatic focus built into the PCS has also made it an important starting point (or prototype model) for program planning, program budgeting, and other types of objective-oriented planning and management in postsecondary education. Use of the PCS, for whatever purpose, encourages one to look at institutional objectives and to consider how one goes about combining resources to attain those objectives—something that is especially important in a postsecondary education enterprise characterized by scarce or limited resources. For example, since programs often cut across organizational lines, the process of classifying an institution's operational records in the PCS format generally requires some sort of program analysis. This process, generally referred to as the "cross-over process," often results in as much valuable information as subsequent analyses of the data.

Hierarchical structure: The PCS represents a prototypical set of programs disaggregated into intermediate levels called subprograms. This disaggregated "hierarchy" gives users a format that can be used to classify activities programmatically at levels below the institution-wide level. Therefore not only can a programmatic approach be used at the institutional level, but also it can be used for organizational units within the institution.

Common language and framework: Closely related to the programmatic nature of the PCS is the fact that it provides a common language and a comprehensive and compatible framework for postsecondary education. Since the PCS focuses on programs (which are in turn related to objectives),

the PCS is a compatible data framework regardless of differences in the organizational structures among institutions. The PCS has often served as an important tool, or at least a necessary first step, in obtaining compatible information. Therefore it has often been used in collecting data from multiple institutions as well as for comparing data across institutional boundaries.

In summary, the primary roles that the PCS generally assume are:

1. A framework that, since it focuses on programs, can be used for the classification of many different kinds of data. This in turn, allows the user to link different kinds of data in the conduct of analysis.
2. A structure that can serve as a common starting point for programmatic planning and management within postsecondary education.
3. A framework that allows the user to look at the activities of an institution, as well as activities below the institutional level, in a programmatic manner.
4. A common language and framework that allows persons in different kinds of institutions and at various levels of postsecondary education to communicate more effectively.

Why Was the PCS Revised?

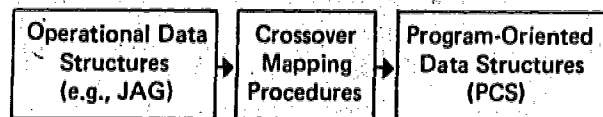
The PCS was revised to increase its value and utility in the planning and management roles described above.

Focus on programs: When the original PCS was developed, the state-of-the-art in higher education data collection and the level of acceptability of the program concept did not permit the feasible introduction of a "pure" programmatic structure. Its developers were often forced to make compromises in the design of the original PCS, causing the structure to deviate from the program concept. However, the state-of-the-art, as well as the acceptance of program planning and management, have improved considerably since that time. In recognition of these developments, and in response to an expressed need on the part of the NCHEMS constituency for a better "program" structure, the following philosophical statement regarding

the programmatic role of the PCS was adopted as a guide for revising the PCS:

The PCS originally was developed as a tool for program planning and analysis and subsequently has been used increasingly as a program budgeting tool. It is essential that the PCS's usefulness as a program planning and analysis tool be maintained. Therefore, any revisions that might be made in the PCS should add to, not detract from, its value as a tool for program planning and analysis. It is quite obvious that, given this philosophy, "crossovers" never will be totally eliminated as long as institutions are *organized* along lines other than the "programs" set forth in the PCS. However, crossovers can be simplified considerably (1) if operational data can be collected, as much as possible, along program lines and (2) if program structures can be designed so that "matches" exist between program data and operational data. Since the printing of the first edition of the PCS, tremendous strides have been made in bringing operational data structures closer to program structures. For example, the Joint Accounting Group (a cooperative effort of NCHEMS, the National Association of College and University Business Officers, and the American Institute of Certified Public Accountants) designed an operational structure for expenditure data that is very close to the PCS format. This structure for expenditure data has been adopted, and is being used, throughout much of postsecondary education. Therefore, identifying those matches where operational data can be moved easily into a program structure is a much more feasible task than it used to be.

The diagram shown below illustrates the role the PCS should play in operational data collection and program data analysis.



This diagram points to the role the PCS should play as a structure for programmatically displaying analytical data. It also points out that analytical data and operational data are, by definition, different. Operational data are collected on an ongoing basis for the institution's operations (such as the accounting system or a student data system) and are usually classified in categories that relate directly to organizational units within the institution. Analytical (program-oriented) data usually are obtained after certain analytical procedures (such as crossover or mapping procedures) are performed on the operational data (for example, a faculty activity analysis can be used to further explain resources used in various academic departments). The PCS often is used to display operational data, but it should be viewed primarily as a format for the display of program data obtained through the use of analytical procedures.

Hierarchical structure: A more detailed classification of activities below the subprogram level was desired by those concerned with the planning and management of organizational units within the institution. Therefore as part of the revision process, those professional associations and special interest groups that represent constituencies directly related to the PCS subprogram areas were asked to work with NCHEMS in developing a more detailed, classification scheme within each of the various subprograms. (Note: This additional detail is reflected in the categories outlined for "type of activity".) For example, the American Association of Medical Colleges (AAMC) worked directly with NCHEMS in developing type of activity categories within subprograms 3.1, Direct Patient Care and 3.2, Health Care Support Services. Although the type of activity categories will not be needed by all users of the PCS (especially those concerned with a broad institutional overview), these categories should prove useful for persons who must plan or manage for a single subprogram area.

Common language: One of the more important uses of the original PCS was in the comparison of information about higher education programs. However, since the original PCS was developed, the concept of "postsecondary education" (PSE) has supplanted higher education as the planning and management focus at many levels. Widespread acceptance of the PSE concept followed the recognition that the "postsecondary learner" could no longer be limited to the 18-22 year old college student and that educational opportunity, particularly for the adult learner, could be provided through channels other than those represented by colleges and universities (such as proprietary institutions, business and industry, labor unions, churches, and community groups). Therefore, NCHEMS felt that if the PCS is to continue to be useful as a common language and data format for "postsecondary education" it needed to be revised so that all of the educational activities encompassed by PSE could be described. Most of the results of the effort to expand the PCS for postsecondary education can be seen in the revisions that were made in the Instruction program (see the discussion section for program 1.0, Instruction). However, other areas of the PCS have also been revised to meet this need (for example, the recognition of

a proprietary school's sales force in the new Student Access program, the inclusion of the instructional "facilitating" function within the Instruction program.)

How Has the Coding Changed in the Second Edition of the PCS?

The coding structure used in the second edition of the PCS essentially consists of one set of codes for "programs and subprograms" (which closely parallel the codes used in the first edition) and a second set of codes for "type of activity" categories, which can be used to further describe activities within programs and subprograms. Program codes are used to classify activities/resources as Instruction, Research, Public Service, and so forth. Subprogram codes represent a second level of disaggregation within each of the various programs. "Type of activity" codes, however, are used to provide a functional description of the kinds of activities being carried out within a program or subprogram. Since it is conceivable (although not probable) that different kinds of activities can be carried out with several different "primary intents" (thereby resulting in classification within different programs and subprograms), type of activity codes are independent of program/subprogram codes. This means that any one "type of activity" category can be used to describe any single subprogram (although in most cases particular type of activity categories are applicable only to a single subprogram). For example, the type of activity category "Retail Services and Concessions (485)" is a recommended type of activity category within three different PCS subprograms: Health Care Supportive Services (3.2), Student Auxiliary Services (5.5), and Faculty and Staff Auxiliary Services (6.6).

To emphasize the fact that type of activity categories are independent of programs and subprograms, the type of activity categories were coded by first arraying them in an alphabetical sequence and then assigning the categories in that list every fourth number beginning with 001. The resulting codes for various type of activity categories appear to be almost randomly assigned when they are viewed in relation to the corresponding subprogram. The codes do not convey any hierarchy or

structured classification scheme but are intended merely to serve as numerical identifiers.

The total coding scheme for the PCS therefore consists of a field of at least twelve digits arrayed in the following way:

xx	xxxx	xx	x	xxx
Program/ Subprogram	Subject Areas Classi- fication (HEGIS Tax- onomy)	Level	Credit/ Noncredit Status	Type of Activity

Program/Subprogram—the first two digits are used to designate the programs (and a second level of aggregation within each program called “subprograms”) an institution carries out to achieve its objectives. A complete diagram of program/subprogram codes is provided in Figure 1 on page 3.

Subject Area Classification—digits 3-6 should be used to classify the subject area with which a particular activity can be associated. Subject area classification is used most in the description of activities within the Instruction program but it can also be used in describing activities within the

Research, Public Service, and Academic Support programs. Only four digits are provided in the field shown above, but it should be noted that the HEGIS Taxonomy is now in the process of being revised. A discussion of that revision process and its implications for the PCS is provided in Appendix I of this document.

Level—digits 7-8 are assigned for the description of either student level or instructional offering level. As such, these two digits will be used only for the classification of activities/resources in the Instruction (1.0) program.

Credit/Noncredit Status—the ninth digit in the field should be used to describe whether or not activities/resources in the Instruction program are associated with instructional offerings that are “for credit” or “not-for-credit” toward a postsecondary degree or certificate. Therefore, this digit will not be used in describing activities/resources within any of the programs other than Instruction.

Type of Activity—digits 10-12 in the field are used to provide a functional description of the kinds of activities being carried out within a program or subprogram. Appendix V outlines the codes assigned to each of the type of activity categories.

INSTRUCTION PROGRAM

(1.0)

Definition

The Instruction program includes those activities carried out for the express purpose of eliciting some measure of "educational change" in a learner or group of learners. "Educational change" is defined to include (1) the acquisition or improved understanding of some portion of a body of knowledge; (2) the adoption of new or different attitudes, and (3) the acquisition or increased mastery of a skill or set of skills. The activities that may be carried out to elicit these educational changes include both "teaching" activities and "facilitating" activities (which are more commonly associated with the design and guidance of a learning experience rather than with teaching something to a learner). Facilitating is an integral part of the design and conduct of an instructional program; academic advising is generally carried out in support of an instructional program (for example, clarifying requirements, describing alternatives). The Instruction program includes both credit and noncredit instructional offerings.

Discussion

The first edition of the PCS defined the Instruction program to include only "those program elements whose outputs are primarily eligible for credit in meeting specified formal curricular requirements, leading toward a particular postsecondary degree or certificate granted by the institution." There are significant differences between this definition and the definition of the revised Instruction program described above. In addition to differences in the definition of the Instruction program, the revised classification of subprograms within the Instruction program is also quite different. The following discussion first will address the definitional differences and then will outline the revised classification structure and differences from the original one. Finally, it will describe some of the implications of these differences in using the new Instruction program to classify instructional offerings.

Definitional Differences: The most obvious definitional difference is that the original definition of

the Instruction program included only those instructional offerings that were given for credit towards a postsecondary degree or certificate. The revised definition includes both credit and non-credit instructional offerings. Two more subtle differences in the revised definition are the explicit inclusion of "facilitating" and the focus on the instructional offerings rather than on the students enrolled in those offerings.

Since the first edition of the PCS was developed in 1972 (as discussed in the Introduction), the educational planning horizon has broadened to incorporate the concept of postsecondary education. Educational planners now must concern themselves not only with courses that are offered for credit toward degrees, but also with courses that are not offered for credit. A consideration of noncredit courses in the context of postsecondary education must include not only those of the traditional educational institutions but the instructional offerings of community groups, businesses, libraries, and labor unions as well. Using this much broader definition of the educational enterprise, one cannot define instruction as being only those credit-bearing courses offered to matriculated students on a college campus. The PSE concept requires that the Instruction program be defined so that "instruction is instruction is instruction" regardless of the constituency being served or the credit or noncredit status of the various offerings. (Note: See the definition of the Public Service program 3.0 for a discussion of the differences between Instruction and the limited set of instructional activities that may be classified as Public Service.)

Second, the mechanisms used to deliver instruction to the learner have been expanded since the first PCS document was developed. Educational planners today should not assume that instruction includes only those activities offered by a teacher to students in a classroom or lecture hall. Educational planning must be able to incorporate both the teaching and the "facilitating" functions into

the definition of instruction if it is to truly reflect what is currently happening in education.

Finally, in the original PCS, the Instruction program was defined to consist of "all formal educational activities in which a student engages to earn credit toward a degree or certificate at the institution." The phrase "in which a student engages to earn credit" suggested that instructional offerings were to be distributed among PCS credit and non-credit categories in the same proportion as the proportion of students who were taking the offering for credit or not for credit. In the revised PCS, the classification of instructional offerings should be completed *independent of* the students enrolled in the offerings. Therefore, if an offering *can be* applied toward a degree or certificate it should be classified in the appropriate degree-related PCS category regardless of the degree aspirations of the students enrolled in the offering. The same principle should be followed in classifying offerings in the non-degree-related categories.

The Classification Structure: The restatement of the definition of the Instruction program was not the sole reason for restructuring the subprograms within Instruction. In fact, a restructuring of the subprograms probably would have been undertaken even if the definition of Instruction had not been changed. The original Instruction subprograms used a variety of different classification criteria, ranging from differences in subject matter (the distinction between General Academic Instruction and Occupational and Vocational Instruction), to differences in when the courses were offered (Special Session Instruction), to differences in the organizational unit responsible for the courses (Extension Instruction). Therefore a single, consistent criterion was needed as the basis for differentiating subprograms within Instruction.

The primary criteria used in developing subprogram within Instruction in the second edition of the PCS was the distinction between those instructional offerings that are part of one of the institution's formal degree or certificate programs and those that are not.* It was agreed that offerings that are part of a degree/certificate program typically have different objectives, and may even be

taught differently, from those that are not part of such a formal program. A third category of instructional offerings (in addition to degree-related and non-degree-related) can be thought of as those offerings that are "required preparation" for participation in a PSE degree or certificate program.

Within the broad category of "degree-related" offerings, three subprograms are defined:

- General Academic Instruction
- Professional Career Instruction
- Vocational/Technical Instruction

These subprograms were designed to allow the user to separate those degree programs that prepare the learner for immediate entry into a *specific* occupation or career from those programs that prepare learners for further study in the academic arena or in a more generalized sense for different occupations. These objective-oriented distinctions were considered to be important because of the linkages that exist between education and career entry and the importance of those linkages to postsecondary education planning.

Within the general category of "nondegree" offerings, five subprograms have been specified:**

- General Studies Instruction
- Occupation-Related Instruction
- Social/Roles/Interaction Instruction
- Home and Family Life Instruction
- Personal Interest and Leisure Instruction

These five subprograms reflect one of the more widely used ways of looking at most nondegree programs in this country. Therefore, they should be consistent, for the most part, with the way in

*It should be noted that the distinction in the second edition is between offerings that are part of "degree programs" and those that are not, rather than using "for credit" or "not for credit" as the criteria. Due to the wide divergence among institutions regarding what they consider to constitute "for credit," it was determined that PCS programs should be differentiated on the basis of their relationship to degree or certificate programs. However, credit/non-credit status can be used to describe further instructional offerings within any of the subprograms of Instruction. A more detailed discussion of the distinctions between "degree-related" offerings and "for credit" offerings is in Appendix II.

**These subprogram categories were developed as a joint effort of NCHEMS and an advisory group representing the Coalition of Adult Education Organizations (CAEO). A detailed description of that effort, and its results, is documented in "A Framework and Language for Postsecondary Education," Collier and Roberts, NCHEMS, 1976.

which information about nondegree programs has traditionally been collected, maintained, and used.

Implications for Implementation: From an implementation standpoint, one of the most significant changes in the revised Instruction program is that it now provides the user with a series of mutually exclusive and consistent "dimensions" for describing instructional offerings. For example, unlike the original PCS, the revised subprogram 1.1—General Academic Studies—relates to the objectives of the institution rather than to any particular subject area and it can be used to classify offerings provided as either for-credit or not-for-credit. This increased flexibility is provided by assigning a particular digit (or set of digits) within the Instruction program coding field to each of the five "dimensions" of objective, subject area, level, credit/noncredit status, and delivery mechanism. The following designation within the coding field is recommended for the Instruction program:

xx	xxxx	xx	x	xxx
Objective (Subprogram)	Subject	Level	Credit/ Noncredit	Type of Activity (Delivery Mechanism)

Digits 1-2 (Objective)—the first two digits in the field should be used to designate the objective of the institution in providing the instructional offering(s). This designation can be accomplished by using the subprograms defined within the Instruction program.

Digits 3-6 (Subject Area Classification)—these four digits should be used to describe the subject area of the instructional offering. Although only four digits are provided in the coding scheme shown above, it should be noted that the HEGIS taxonomy is now in the process of being revised. Current indications are that the revised HEGIS taxonomy, when completed, might require more than four digits.* The current HEGIS taxonomy of subject classifications is included as Appendix I.

Digits 7-8 (Level)—these two digits should be used to describe the level of either the instructional offering/program being provided or the students

*A discussion of the work to date on the revised HEGIS Taxonomy is included in the introduction to Appendix I.

enrolled in the instructional offering/program. In those instances where the PCS is being used to classify the activities and resources associated with the conduct of an instructional offering, the focus will be on "course" level. A discussion of the uses of both course level and student level, categories of level, and definitions for each category is provided in Appendix III.

Digit 9 (Credit/Noncredit Status)—the ninth digit should be used to describe whether or not the instructional offering is being provided for credit toward a postsecondary degree or certificate. As mentioned earlier, whether an offering is provided "for-credit" or "not-for-credit" and whether it is part of a formal degree program are separate issues. Therefore, credit/noncredit status can be used to further describe offerings in any of the subprograms within Instruction. A further discussion of credit and noncredit distinction and definitions is provided in Appendix II.

Digits 10-12 (Delivery Mechanism)—in revising the Instruction program to accommodate the needs of postsecondary education, it was necessary to recognize that instruction is "delivered" to learners through mechanisms other than classroom/laboratory instruction. Therefore, within the Instruction program, "type of activity" categories refer to categories of delivery mechanism. Although the use of a variety of "delivery mechanisms" (for example, correspondence courses, apprenticeships) is nothing new, planning and managing in the context of PSE increases the need for, and the importance of, a dimension for describing delivery mechanisms for instructional programs. For those institutions that want to include this dimension as part of the description of instructional offerings, categories and definitions of "delivery mechanism" are described in Appendix IV.

1.1 General Academic Instruction (Degree-Related)

Definition: This subprogram includes those instructional offerings intended both to prepare learners, in a generalized sense, to function in a number of different occupations and to prepare them for further academic study. Instructional offerings of this "general academic" nature should be classified in this subprogram only if they are offered as part of one of the institution's formal

degree or certificate programs. Therefore, it does not include offerings that are part of programs leading toward degrees or certificates offered by someone other than the institution, such as adult basic education programs (see subprogram 1.5). In determining whether or not a particular offering should be classified in this subprogram, the user should look at both the *level* and the *subject area* of the degree program the offering is part of. Most offerings at the baccalaureate level and below in subject areas typically referred to as "liberal arts" (mathematics, literature, languages, and so forth) should be classified in this subprogram. Categories related to subject area, credit/noncredit status, course level, and delivery mechanism can be used to describe further the instructional offerings within this subprogram.

Examples: Baccalaureate programs in liberal arts at a college or university

Academic associate-degree programs at a community college

1.2 Professional Career Instruction (Degree-Related)

Definition: This subprogram includes those instructional offerings intended to prepare learners for immediate entry into a specific profession or career that requires educational attainment at the baccalaureate level or above. Instructional offerings should be classified in this subprogram only if they are offered as part of one of the institution's formal degree or certificate programs. In deciding whether or not a particular degree-related offering(s) should be classified in this subprogram, the user should determine (1) whether there is a direct match between the field of study and a particular occupation or career and (2) whether entry into that occupation or career typically requires a baccalaureate or post-baccalaureate degree. This subprogram, therefore, would include undergraduate programs in engineering and nursing as well as doctoral programs in the liberal arts (doctoral programs that typically prepare learners for a specific career as a teacher or researcher in that particular field of study). Categories related to subject area, course level, credit/noncredit status, and delivery mechanism can be used to describe further the instructional offerings within this subprogram.

Examples: Baccalaureate programs in nursing, engineering, elementary education
Programs in ROTC
Professional programs in law, medicine, business, library science
Doctoral programs in all subject areas

1.3 Vocational/Technical Instruction (Degree-Related)

Definition: This subprogram includes those instructional offerings intended to prepare learners for immediate entry into a specific occupation or career requiring educational attainment at a level below the baccalaureate level. Instructional offerings should be classified in this subprogram only if they are offered as part of one of the institution's formal degree or certificate programs. If the instructional offering is occupationally related, but is not part of a formal degree or certificate program, it should be classified in subprogram 1.6, Occupation-Related Instruction (Nondegree). In determining whether or not a particular degree-related offering(s) should be classified in this subprogram, the user should determine (1) whether there is a direct match between the field of study and a particular occupation or career and (2) whether entry into that occupation or career typically requires a degree or certificate at a level below the baccalaureate level. Categories related to subject area, course level, credit/noncredit status, and delivery mechanism can be used to describe further the instructional offerings within this subprogram.

Examples: Degree/certificate programs of vocational and technical schools

Occupationally related certificate programs of proprietary schools

1.4 Requisite Preparatory/Remedial Instruction

Definition: This category includes those instructional offerings carried out to provide the learner with the skills or knowledge required by the institution to undertake course work leading to a post-secondary degree or certificate. These offerings, supplemental to the normal academic program, typically are designed as preparatory, remedial, developmental, or special education services. They may be taken prior to, or along with, the course work leading to the degree or certificate. They are

generally noncredit offerings, although in some cases credit may be given and the credit requirements for the degree or certificate increased accordingly. Only those offerings that are provided specifically for the purposes of teaching required preparatory or remedial skills or knowledge should be included in this category. If students may satisfy the preparatory requirements by taking offerings provided primarily for other than remedial or preparatory purposes, those offerings should be classified appropriately elsewhere.

Examples: Preparatory/remedial summer program offered for students accepted under a conditional admission agreement

1.5 General Studies (Nondegree)

Definition: This subprogram includes those instructional offerings that are not part of one of the institution's formal postsecondary degree or certificate programs and that are intended to provide the learner with knowledge, skills, and attitudes typically associated with an "academic discipline" (such as literature, mathematics, philosophy). In classifying offerings in this subprogram, the user should determine whether they lend themselves to classification in one of the traditional academic disciplines typically grouped together as the "liberal arts." If they can be classified in such a discipline category and if they are not part of a formal degree or certificate program, they should be included in this subprogram. This subprogram should be used for the classification of adult basic education programs. Adult basic education is nondegree because it does not lead to a postsecondary education degree or certificate (that is, it leads to a secondary school certificate) and its instructional offerings are most appropriately associated with the "academic disciplines." Categories related to subject area, course level, credit/noncredit status, and delivery mechanism can be used to describe further the instructional offerings within this subprogram.

Examples: Nondegree offerings in:

- Great books
- Painting and sculpture
- Fine arts
- Foreign languages for travel
- Adult basic education programs
- General education development programs

1.6 Occupation-Related Instruction (Nondegree)

Definition: This subprogram includes those instructional offerings that are not carried out as part of a formal certificate or degree program but that are offered to provide the learner with knowledge, skills, and background related to a specific occupation or career. The instructional offerings classified in this category focus on the role of the individual as a worker rather than upon his or her role as a member of society, part of the family, or as a user of leisure time. Categories related to subject area, course level, credit/noncredit status, and delivery mechanism can be used to describe further the instructional offerings within this subprogram.

Examples: Non-degree-related continuing education offerings for physicians, nurses, teachers
Non-degree-related career/vocational courses
Corporate programs designed to teach the sales force about new products

1.7 Social Roles/Interaction Instruction (Nondegree)

Definition: This subprogram includes those instructional offerings that are not carried out as part of a certificate or degree program but that are offered to provide the learner with knowledge, skills, and background needed to function as a member of society or to interact with the variety of social institutions. It also includes those offerings that deal with the person as a member of a particular social organization or institution. Such social institutions include, but are not limited to, the church, the community, and organizations associated with the various levels of government. Categories related to subject area, level, credit/noncredit status, and delivery mechanism can be used to describe further the instructional offerings within this category.

Examples: Civil defense orientation program

Nondegree offerings in:

- Citizenship
- Current events/community problems
- Consumerism
- Community action
- Environmental issues

Church-sponsored program dealing with its religious teachings

Languages program for persons seeking U.S. citizenship

1.8 Home and Family Life Instruction (Nondegree)

Definition: This category includes those instructional offerings that are not offered as part of a certificate or degree program but that are carried out to provide the learner with knowledge, skills, and capabilities related to the establishment, maintenance, and improvement of a home, to the carrying out of those functions typically associated with the conduct of a household, or to the person's responsibilities as a member of the family unit. This category includes those offerings that focus on the person's role as a member of a family or household rather than upon his or her role as a worker, member of a social organization, or user of leisure time. Categories related to subject area, level, credit/noncredit status, and delivery mechanism can be used to describe further the instructional offerings within this subprogram.

Examples: Child care and development

Gardening

Do-it-yourself building and repair skills

Household budgeting

Home making

Sewing and cooking (if not offered as a recreational pursuit such as gourmet cooking)

1.9 Personal Interest and Leisure Instruction (Nondegree)

Definition: This category includes those instructional activities that are not offered as part of a certificate or degree program but that are carried out to support an individual's recreational or avocational pursuits or to improve his or her day-to-day living skills. The activities included in this category focus on the individual as a user of leisure time rather than upon the individual as a member of a social institution or upon occupational and career-related needs. However, if the offering can be classified within a traditional academic discipline even if it is a leisure time pursuit (for example, art appreciation, great books), it should be classified in subprogram 1.5, General Studies. Categories related to subject area, level, credit/noncredit status, and delivery mechanism can be used to describe further the instructional offering within this category.

Examples: Training of pets

Physical fitness

Speed reading

Driver training

Personality development

Public speaking

Folk dancing

Leadership development

RESEARCH PROGRAM (2.0)

Definition

The Research program includes those activities intended to produce one or more research outcomes including the creation of knowledge, the reorganization of knowledge, and the application of knowledge. It includes both those activities carried out with institutional funds and those carried out under the terms of agreement with agencies external to the institution. Research activities may be conducted by any number of organizational entities including research divisions, bureaus, institutes, and experimental stations. Instructional activities, such as workshops, short courses, and training grants, should not be classified within the Research program but should be classified as part of Instruction unless they satisfy the specific criteria outlined for inclusion within the Public Service program.

Discussion

In the first edition of the PCS, the program used to classify research-related activities was called "Organized Research." It was felt that the word "organized" was too restrictive and tended to eliminate many activities that, while not rigidly organized, are carried out primarily to produce research outcomes. The implications of this change go beyond the simple name change. For example, it is intended that when individual or departmental research is conducted with the primary objective being "to produce research outcomes that include the creation of knowledge, the reorganization of knowledge, and the application of knowledge," those departmental research activities should be classified in the Research program. The criterion used in classifying departmental research activities in the PCS should be the purpose of those activities rather than the sources of funding for those activities.

The other significant change that has been made in the Research program was to exclude those research activities that have been formally designed as "federally funded research centers." (Note: A list of those centers included in this group is pro-

vided in the definition of Independent Operations, 7.0.) It is felt that these research centers are independent operations rather than part of the institution's research program and therefore they should be classified in subprogram 7.2, Independent Operations/Outside Agencies. It can be noted that this procedure for classifying these particular research centers is consistent with the procedure used in classifying them at the federal level.

2.1 Institutes and Research Centers

Definition: This subprogram includes those research activities conducted within the framework of a formal research organization. This subprogram, while using "organizational" criteria as the rationale for classifying program elements, includes only those activities carried out for the purposes of creating knowledge or reorganizing or applying existing knowledge. Therefore, while an agricultural experiment station is used as an example in this subprogram, only those "research" activities carried out within an agricultural experiment station should be classified in this subprogram. The criteria described in the Public Service program (3.0) should be used in differentiating research activities from public service within an agricultural experiment station. Most institutes and research centers will not have a "dual objective" like agricultural experiment stations, and can therefore be classified totally within a single subprogram. Excluded from this category are the 21 federally funded research centers (for example, Argonne National Laboratories) that should be classified in subprogram 7.2, Independent Operations/Outside Agencies.

Examples: Agricultural Experiment Station
Center for Behavioral Science
Center for Opinion Research
Center for Study of the Aging
Center for Study of Democratic Institutions
Divisional Research Centers
Institute for Behavioral Science
Social Science Research Center

2.2 Individual or Project Research

Definition: This subprogram includes those research activities that normally are managed within the academic departments. These research activities usually have a stated goal or purpose, have projected outcomes, and generally are created for specified time periods as a result of a contract, grant, or specific allocation of institutional resources. Departmental research activities should be included in this subprogram when they are conducted for the express purpose of producing research outcomes. However, if departmental research is carried out as an instructional activity, it should be classified in the appropriate subpro-

gram in 1.0, Instruction. If departmental research is carried out as primarily a personnel development activity, it should be classified in subprogram 4.8, Academic Personnel Development. Excluded from this subprogram are those research activities carried out in the framework of a formal research organization, which should be classified in 2.1, Institutes and Research Centers. Additional detail within this subprogram would normally be provided using the HEGIS subject matter taxonomy to classify those academic departments in which individual or project research activities are being carried out. Unique codes describing individual projects also may be used.

PUBLIC SERVICE PROGRAM

(3.0)

Definition

The Public Service program includes those program elements established to make available to the public the various unique resources and capabilities of the institution for the specific purpose of responding to a community need or solving a community problem. Included in this program are the provision of institutional facilities as well as those services of the faculty and staff that are made available outside the context of the institution's regular instruction and research programs. In determining whether to classify activities in the Public Service program, answers to the following questions can be used as guidelines:

1. Who identified the need for the activities?
2. Who initiated the activities?
3. Who funded the activities and who controls the nature and content of those activities?
4. Are the activities restricted to the benefit of a particular target group or are they available to anyone served by the institution?
5. Would the activities be carried out by the institution as part of its normal instruction or research program if funding were not provided specifically for that purpose?

If the need for a particular set of activities was identified by a person, group, or agency outside the institution and if those activities were initiated and funded by an external group or agency apart from the institution's normal instruction or research programs, those activities generally should be included in the Public Service program. They should be classified as part of Public Service because, under the described circumstances, the institution would be carrying them out primarily because it is uniquely qualified to do so. This scenario suggests that the institution is making available its particular unique resources, services, and expertise in order to either serve a community need or solve a community problem; therefore, the activities should be classified as such in accordance with the definition of the Public Service program.

The following examples of Public Service program elements can be used as guidelines:

1. Consulting activities (which are to be distinguished from instructional activities) should be classified in the Public Service program. Consulting activities are not instructional activities because consulting involves the application of knowledge or skills to a specific concern or problem generally identified and/or defined by the client. In consulting, the primary objective is the solution of the problem, with education being either a secondary motive or a tool for accomplishing the primary objective. Instruction may use a problem-solving approach, but its primary objective is the transmission of knowledge rather than the solution of problems. In distinguishing between consulting and instruction, one should ask whether the primary intent of the activity is the transmission of knowledge, and if so, the activity should be classified as Instruction. If the primary purpose of the activity is the solution of a problem for the benefit of someone external to the institution, then the activity is probably consulting and should be classified as Public Service.
2. Instructional activities should be classified in the Public Service program only if they can be shown to meet the criteria of "making available institutional resources and expertise outside the context of the instruction program" rather than simply "extending" the instruction program. On gain answers to the questions posed in the definition of the Public Service program should be used in determining how to classify those instructional activities that are on the border between instruction and public service. For example, short courses and seminars carried out as the result of a request by an external agency and restricted for the benefit of a specific audience other than the institution's student body should be classified in the Public Service program. However, most instructional activities (including most institutionally initiated conferences and seminars) are "extensions" of the institution's instructional program rather than

activities carried on outside of that program and should be classified in Instruction.

3. Activities should be classified in the Public Service program only if they are carried out for the *specific purpose* of making available institutional resources, services, and expertise. Therefore, if a particular activity only *incidentally* makes an institutional resource available it should be classified elsewhere (for example, social and cultural events may be staged as part of the Student Service program but if they are open to the general public they may incidentally benefit the community as well).

Discussion

In the first edition of the PCS, the Public Service program included those activities that were intended to benefit "groups external to the institution." External groups were defined as those persons who were not degree-seeking, matriculated, on-campus students. Furthermore, the first edition of the PCS defined "Instruction" as those instructional activities carried out for persons *internal* to the institution—the instructional activities carried out for persons *external* to the institution were classified as Public Service. This internal/external distinction has been eliminated in the revised edition of the PCS and the criterion now being used is the objective of the institution in carrying out the activities—are they being carried out to make the institution's resources, services, and expertise available to meet a community need?

This objective-oriented criterion is somewhat different from the earlier internal/external distinction. In the first place, the concept of postsecondary education has expanded the constituencies of most institutions so that *external* constituencies are almost impossible to identify; institutions now serve adults as well as the youth, full-time and part-time students, and degree-seeking students as well as students not seeking degrees. The only activities that can still be considered *external* from a postsecondary education standpoint are those activities initiated by, and carried out for the specific benefit of, someone who is not a participant (in the broadest sense) in the institution's instruction or research programs. These activities are still considered part of the Public Service program because

they involve making the institution's services, resources, and expertise available to persons or groups in a context outside the normal instruction, research, and support programs.

In keeping with this revised concept of "public service" the only activities that are classified in the Public Service program are (1) those patient care activities and health care support activities conducted as part of a teaching hospital or health sciences center, (2) faculty and staff consulting services, (3) the provision of services or facilities/equipment to the community or to groups external to the institution, (4) those social and cultural events conducted outside the context of the student service program, and (5) those public broadcasting services that are neither part of the instructional program nor carried out in conjunction with a student broadcasting club. In recognition of the continuing need to differentiate between public service extension activities and those public service activities that are institutionally sponsored, the distinction between these two different organizational arrangements has been retained in the second edition of the PCS. Finally, instructional activities may be classified within the Public Service program *only* if they represent activities conducted outside the context of the institution's instructional program rather than simply an extension of that program.

3.1 Direct Patient Care

Definition: This subprogram includes those activities carried out for the specific purpose of providing direct patient care (prevention, diagnosis, treatment, education, rehabilitation, and so forth). The provision of such care may be for the benefit of either humans or animals (veterinary care). In the postsecondary education setting, these services are typically rendered under the auspices of a teaching hospital or health sciences center for the benefit of a clientele in the community-at-large rather than for the institution's own student body or faculty and staff. Patient care activities carried out solely for the benefit of the institution's students should be classified in subprogram 5.4, Student Health/Medical Services; patient care activities carried out solely for faculty and staff should be classified in 6.6, Faculty and Staff Services.

This subprogram includes only those activities directly related to the provision of patient care. Therefore, activities that are carried out within the setting of a teaching hospital but that cannot legitimately be considered part of direct patient care (such as instruction, research, and administration) should be appropriately classified elsewhere. Instructional activities should be classified in the appropriate subprograms in the Instruction program, 1.0; research activities should be classified in the Research program, 2.0; administrative activities should be classified in the appropriate subprograms in the Institutional Support program 6.0. Those health care support services that are carried out in direct support of the provision of patient care, but that are not a part of direct patient care, should be classified in subprogram 3.2, Health Care Support Services.

Within the Direct Patient Care subprogram, two ways of further classifying activities can be used, each mutually exclusive of the other. One way of further classifying these activities is to focus on the "setting" in which the patient care functions are carried out (for example, inpatient, ambulatory, outreach, emergency). A second way is to look at the "type" of care being provided (such as medical/surgical care, rehabilitative, dental care, veterinary care). In fact, within each of these "types" of patient care a further disaggregation can be made by "medical specialty" (for example, pediatrics, obstetrics, gynecology). The independence of these two dimensions has been shown in the coding by defining "x's" in the code where the other dimension category should be shown. Therefore, the *setting* categories are coded 1xx, 2xx, 3xx, and so forth, signifying that the x's should be filled in with "type of care" codes. By the same token, *type of care* codes are x02, x03, x04, and so forth, signifying places where "setting" codes should be used.

The following categories should be used for a more detailed classification of activities by "setting" within this subprogram:

1xx *Inpatient*—those activities designed to provide direct patient care within the confines of the care setting to persons who are residing at least overnight on the premises. Typically, inpatient clients are considered those persons who are assigned a bed at the care facility.

2xx *Ambulatory*—those activities designed to provide direct patient care within the confines of the care setting to persons who are resident neither overnight nor beyond the time required to provide the care. Excluded from this category is emergency patient care that is delivered in an ambulatory setting.

3xx *Outreach*—those activities in which the patient-care provider goes to the patient to deliver the care (such as a home-care program). Excluded from this third category is emergency patient care in which the care provider goes to the patient.

4xx *Emergency*—those activities designed to provide direct patient care to persons requiring immediate attention due to the acute nature of their health-care problem.

5xx *Mixed Function*—those activities that include a combination of several of the activities described above so that the individual activities cannot be separated out and classified in the appropriate categories. However, if the individual component parts can be separately identified, they should be classified in the appropriate categories.

The following categories should be used for a more detailed classification of activities by "type of care" within this subprogram:

x02 *Medical/Surgical Care*—those activities related to preventing, caring for, and assisting in the cure of disease and the care of the injured as well as surgical functions.

x03 *Behavioral*—those activities related to the treatment of psychological and behavioral problems as well as to the promotion of psychological well being.

x04 *Rehabilitative Care*—those activities related to the restoration of bodily functions and structures in order to regain patient self-sufficiency.

x06 *Public/Community Medicine*—those activities related to the health and illness of populations.

x07 *Patient Education*—those activities carried out to provide patients with the knowledge and attitudes needed to effectively cope with their own health problems.

x08 *Dental Care*—those activities related to care and treatment of human teeth and structures.

- x10 *Veterinary Care*—those activities pertaining to the care and treatment of animals and their diseases.
- x11 *Supportive Care*—those activities related to conducting prescribed treatment plans and to supporting the implementation of those plans (for example, patient hygiene, observation of patient status).
- x12 *Other Patient Care*

3.2 Health Care Supportive Services

Definition: This subprogram includes those activities that are unique to a teaching hospital, health sciences center, or clinic and that support the provision of health care but that cannot legitimately be considered part of the provision of direct patient care. Excluded from this subprogram are those nursing services that are an integral part of the provision of patient care and that should be classified in subprogram 3.1, Direct Patient Care. The following categories should be used for a more detailed classification of activities within this subprogram:

369 *Medical Support Services*—those activities that are medical in nature and that indirectly support patient care, but that are not actually part of the provision of direct patient care.

Examples: Blood bank

Dietary and nutritional services (unless part of the patient's treatment)

EEG

EKG

Ophthalmic Services

Pharmacy

Physiological instrumentation and monitoring

X-ray services

Orthodontic services

229 *General Hospital/Clinic Support*—those administrative and support activities that are unique to the operation of a hospital or medical clinic. Excluded from this category would be those administrative activities that can be classified appropriately within the various subprograms of the Institutional Support program (6.0).

Examples: Admitting and

Examples: Admitting and credit

Forensic medicine

Medical records

Patient charging and accounts

Inpatient reception desk

485 *Retail Services and Concessions*—those activities provided as a comfort or convenience to the visitors and clientele of the hospital or clinic. These activities are often operated as income-generating or self-supporting enterprises.

Examples: Gift shop

Social services

Television rental services

3.3 Community Services

Definition: This subprogram includes those resources, services, and expertise made available to persons and groups outside the context of the institution's Instruction, Research, and Support programs (excluding those defined as part of subprograms 3.1, 3.2, 3.4, 3.5). Community Service (3.3) activities differ from Cooperative Extension Services (3.4) in that they are generally sponsored and controlled by the institution; extension services involve a sharing of programmatic and fiscal control with an outside agency.

457 *Provision of Faculty/Staff Services*—those activities designed to make faculty/staff/student knowledge and skills available to the community or to groups external to the institution. The activities that should be classified in this category involve the use of the institution's own staff's skills and expertise for purposes that are not part of the institution's own regular instruction, research, or support programs (including institutionally sponsored consulting services). This category also includes those instructional activities that represent the provision of faculty/staff services rather than an "extension" of the instructional program.

Examples: Consulting with small businesses, public school system, and so forth

Provision of coaches for community summer camp

Faculty/staff participation on community action committees

Services related to the use of special equipment and facilities

Public-service-related instructional activities

453 Provision of Facilities/Equipment—includes providing the institution's physical facilities and/or equipment for community activities.

Examples: Community meetings and events held in institutional facilities

Community use of institution's gymnasium and recreation facilities for a summer camp

449 Provision of Cultural and Recreational Services—those cultural and recreational programs arranged and sponsored outside the context of the Student Service program. Cultural and recreational activities conducted primarily for students as part of the Student Service program should be classified in subprogram 5.2, Social and Cultural Development.

Examples: Lecture and fine arts series
Concerts and recitals (visiting artists)

3.4 Cooperative Extension Services

Definition: This subprogram includes those activities that make resources, services, and expertise available outside the Instruction, Research, and Support programs and that are conducted as cooperative efforts with outside agencies. Excluded from this subprogram are those instructional and research activities offered through an extension division. A distinguishing feature of the activities included in this subprogram is that programmatic and fiscal control are usually shared with one or more external agencies or governmental units.

The categories shown below are related to the categories used by the U.S. Department of Agriculture's Extension Management Information System (EMIS) and may be used as one alternative in the development of a more detailed classification of activities within this subprogram. However, if a more detailed "type of activity" classification of activities is desired within this subprogram, the user may want to refer to the classification structure outlined for the Community Services (3.3) subprogram.

009 Agriculture and Related Industries—activities

outside the instructional and research programs established to make resources, services, and expertise available to the agricultural industry.

Examples: Consulting and advisory services
Provision of institutional facilities/equipment
Soil testing

497 Rural Social and Economic Development—activities outside the instructional and research programs established to make resources, services, and expertise available for social and economic development in rural areas.

Examples: Consulting and advisory services
Provision of institutional facilities/equipment
Provision of services

301 International Extension—those activities outside the instructional and research programs established to make resources, services, and expertise available as they relate to international activities.

Examples: Consulting and advisory services
Provision of institutional facilities/equipment
Provision of services

597 Urban Extension Service—those activities outside the instructional and research programs established to make resources, services, and expertise available within the urban areas.

3.5 Public Broadcasting Services

Definition: This subprogram includes the operation and maintenance of those broadcasting services operated outside the context of the institution's Instruction, Research, and Support programs. Excluded from this category are broadcasting services that are conducted primarily in support of instruction (such programs should be classified in subprogram 4.5, Ancillary Support), broadcasting services that are primarily operated as a student service activity (such programs should be classified in subprogram 5.2, Social and Cultural Development), and broadcasting activities that are independent operations (such programs should be classified in subprogram 7.1, Institutional Operations).

The following categories should be used for a more detailed classification of activities within this subprogram.

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- 061 *Broadcast Programming***—those activities related to planning, scheduling, and development of the programs to be broadcast.
- 057 *Broadcast Production***—those activities related to the actual on-the-air broadcast of programs. This subcategory includes the activities of announcers, broadcast personnel, and sound engineers, as well as the related facilities and equipment needed to conduct a broadcast.
- 389 *News Acquisition and Preparation***—those activities related to the acquisition, preparation, and reporting of news, for example, wire service, news rewriting, interviewing and reporting.
- 065 *Broadcast Sales***—those activities related to the solicitation of sponsors for commercial messages, political announcements, and so forth.
- 285 *Information Dissemination/Promotion***—those activities related to obtaining public support for the broadcasting station and its programs (that is, increasing the audience of radio listeners or television viewers) as well as those activities carried out to provide general information about the broadcasting station and its operations to the public.

ACADEMIC SUPPORT PROGRAM

(4.0)

Definition

The Academic Support program includes those activities carried out in direct support of one or more of the three primary programs (Instruction, Research, Public Service). The activities that should be classified in this program include (1) activities related to the preservation, maintenance, and display of both the stock of knowledge and educational materials (for example, library services and museums), (2) activities that directly contribute to the way in which instruction is delivered or research is conducted (such as educational media services, academic computing support, ancillary support), (3) activities directly related to the administration of academic programs, and (4) activities related to the professional development of academic personnel.

The activities that should be classified in the Academic Support program differ from those classified in the other support programs in that they are carried out in *direct* support of one or more of the three primary programs. While the activities of the Student Service program may indirectly contribute to the institution's instructional objectives (such as social and cultural events), they are generally considered to be a supplement to the instruction program rather than a direct contributor to the objectives of the instruction program. The Institutional Support program, on the other hand, is primarily concerned with the institution as an operating entity and tends to focus on the institution as a whole rather than upon individual programs.

Discussion

Only a few changes from the first edition of the PCS have been made in the Academic Support program. The subprogram Educational Media Services (4.3) reflects a title change from the original PCS in which it was called Audio-visual Services. This change was made to reflect the new technologies emerging in this area as well as the expanded role of these kinds of activities in the delivery of instruction.

A more significant change involved the separation of the subprogram Academic Administration and Personnel Development (4.6) in the first edition of the PCS into two distinct subprograms called Academic Administration (4.6) and Academic Personnel Development (4.8). This change was made to reflect the fact that there are significant programmatic differences between academic administration and academic personnel development. It was agreed that sabbatical leaves and faculty development programs (both of which are part of Academic Personnel Development) constituted major resource commitments at many institutions and should not be mingled with other activities. Furthermore, the second edition of the PCS stipulates that when "departmental research" activities (or when some portion of those activities) are considered to contribute to academic personnel development they should be classified as such. The new Academic Personnel Development subprogram provides an easily identifiable category for such departmental research activities.

4.1 Library Services

Definition: This subprogram includes those activities that directly support the collection, cataloging, storage, and distribution of published materials in support of one or more of the institution's primary programs. To be included in this subprogram, these library services should serve multiple academic programs or departments within the institution. Library services that are restricted to the support of individual programs or departments should not be included in this subprogram, but should be attributed directly to the individual departments they serve (within either the Instruction, Research, or Public Service programs). The HEGIS codes can be used in classifying activities when the library is serving a single specific academic program or department. The "type of activity" classification for activities in this subprogram is described below.

349 *Materials Acquisition*—those activities concerned with the determination of acquisition policy, screening and evaluation of available materials, and with acquiring materials for the

libraries. Also included in this subcategory would be the periodic re-evaluation of materials.

Examples: Setting acquisition policy
Selection of materials for acquisition
Acquisition process

361 *Materials Preparation*—those activities related to the preparation and maintenance of materials for general use and distribution.

Examples: Searching
Cataloging
Recording
Shelving
Binding
Repair

357 *Materials Identification/Access Services*—those activities related to the provision of services and aids for the identification and location of documents or materials.

Examples: Information desk
Indexes
Visual aids (posters, signs, and so forth)
Reference services

353 *Materials Distribution*—those activities related to the control and distribution of library materials.

Examples: Circulation services
Reserve services
Loan and rental services

297 *Interinstitutional Exchange and Loan Services*—those activities related to borrowing or lending materials to other libraries.

Examples: Messenger services
Interlibrary loan office

285 *Information Dissemination/Promotion*—those activities related to providing general information about the library and its activities, as well as with the promotion of library use.

Examples: Publications
Advertisements and exhibits
Personal communication

4.2 Museums and Galleries

Definition: This subprogram includes those activities related to the collection, preservation, and exhibition of historical materials, art objects,

scientific displays, and so forth that support one or more of the institution's primary programs. Only activities serving multiple academic programs or departments or the entire institution should be included in this subprogram. Museums and galleries that support a single academic department should be charged directly to the activities of that department. This subprogram is not restricted to the collection, preservation, and exhibition of inanimate objects. For example, it is appropriate to include in this subprogram the activities associated with an arboretum. Research activities associated with the museum should be classified under 2.2, Individual or Project Research. The HEGIS codes can be used in classifying activities when the museum or gallery is serving a single specific academic program or department. The "type of activity" classification for activities in this subprogram is described below.

349 *Materials Acquisition*—activities involving the selection and acquisition of new exhibits or specimens.

Examples: Selection
Purchasing
Expeditions

361 *Materials Preparation*—activities related to the preparation and maintenance of materials for general use of exhibition.

Examples: Cataloging
Repairing
Cleaning specimens
Identification of specimens
Describing and photographing specimens

357 *Materials Identification/Access Services*—activities related to providing services and aids for the identification and location of museum materials.

Examples: Museum exhibits
Teaching collection
Tours
Guidebooks
Reference services

377 *Museum Specimen Identification Services*—activities carried out as a service to the institution's students, faculty, and staff, as well as the activities concerned with the identification of specimens not belonging to the museum.

297 Interinstitutional Exchange and Loan Service—activities related to the borrowing of specimens from or the lending of specimens to other institutions.

285 Information Dissemination/Promotion — activities related to providing general information, as well as the promotion of museum use.

Examples: Traveling exhibits

- Public lectures
- Off-campus exhibits
- Advertisements
- Publications

4.3 Educational Media Services

Definition: This subprogram includes those audio, visual, and other technological services that have been established to provide direct support for the institution's instruction, research, and public service programs. Those support services related to the use of "dial-access" centers, learning resource centers, computer-aided instruction, and closed circuit television facilities would be included here. However, those instructional activities that use computer aids, closed circuit television facilities, and so forth rather than contributing to the provision of those services should be classified appropriately in the Instruction (1.0) program. This subprogram includes only those activities intended to "provide" or "make available" media services. Those educational media services that support a single academic program, such as a German language laboratory, should be classified as one of the activities associated with that program. The HEGIS category codes can be used in classifying activities when they are serving a single specific academic program or department. The "type of activity" classification for activities in this subprogram is described below.

349 Materials Acquisition—those activities related to the acquisition of materials or devices.

Examples: Selection

- Purchasing
- Processing

445 Production Services—those activities involving the creation and/or manufacture of educational resources (often to the predetermined specifications set by the faculty).

Examples: Graphic materials production

Audio production

Still photography production

Motion picture production

Television production

Computer-assisted instruction production

353 Materials Distribution—those activities related to the distribution of educational media resources for institutional use.

Examples: Storage

Scheduling

Delivery

Maintenance

Inventory

169 Educational Media Research—those activities related to the generation and testing of the knowledge, theory, and research methodology used in delivering instruction through various materials, devices, or techniques.

Examples: Research on materials

Research on devices

Research on techniques

285 Information Dissemination/Promotion—those activities related to providing general information about the available media services and the promotion of the use of those services.

4.4 Academic Computing Support

This subprogram includes those computer services that have been established to provide direct support for one or more of the institution's primary programs. Administrative data processing services and computing support should be included in subprogram 6.4, Administrative Computing Support. The HEGIS category codes should be used when the academic computing support is serving a single specific academic program or department. The "type of activity" classification for activities in this subprogram is described below and can be shown using the fifth digit in the field.

093 Computer Operations/Production—those activities related to the operation of the computing system.

Examples: Data entry

Production control

Computer operations

Data librarian

097 Computer Systems Support—those activities

related to software design, including support of the operating system and other related software.

Examples: Development of the operating system

Development of language compilers (FORTRAN, COBOL, and so forth)

Development of generalized software packages (SPSS, BMD, and so forth)

Development of special systems for general usage

- 601 *User Services*—those activities related to specific user projects. This category differs from the previous one in that it includes those activities directed toward specific users and user needs rather than toward the system in general and general systems support.

Examples: Programming

Special systems

- Advising

- 285 *Information Dissemination/Promotion*—those activities related to maintaining and distributing general information about the institution's computer services to users, as well as those activities designed to promote the use of the institution's computer services.

Examples: Library

Newsletter

4.5 Ancillary Support

Definition: This subprogram includes those activities that directly contribute to the way in which instruction is delivered or research is conducted but that cannot be appropriately classified as educational media services or academic computing support. Ancillary support services are generally unique to a particular academic program or department and are so numerous and varied that individual PCS subprograms were not developed for each one. HEGIS categories can be used in classifying these activities in accordance with the related academic department.

Examples: Demonstration school, glass blowing shop, laboratory school, nuclear reactor, planetarium, vivarium, radio station, television station, university press, electronics design facility, animal laboratory facilities

4.6 Academic Administration

Definition: This subprogram includes those activities that provide administrative and management support specifically for the institution's academic programs. This subprogram includes the activities of the college deans, the administrative activities of departmental chairpersons, and the activities of their associated support staff. The activities of those administrative officers whose responsibilities are institution-wide and include responsibilities outside the "academic" realm (such as Vice-Presidents and Vice-Chancellors of Academic Affairs) should be included in 6.1, Executive Management. When the academic administration activities serve a single academic program or department the HEGIS category codes can be used for further description.

The following categories may be used for a more detailed "type of activity" classification of activities within this subprogram.

- 001 *Academic Administration/Governance*—those activities related to the management and governance of the institution's academic programs (excluding program advising) that are carried out by either members of the faculty or the administrative staff. These activities include committee work, the academic senate, and such departmental administrative functions as interviewing prospective faculty members, assisting in the development of departmental policies, tenure review, and so forth.

- 005 *Academic Program Advising*—those activities that involve providing assistance and advice to students about the courses they should take, describing course requirements for particular programs, scheduling necessary courses, describing program standards, and so forth. Academic program advising differs from "facilitating" activities (which should be classified within the Instruction program). Facilitating activities are an integral part of instruction because they are involved in the actual design of the student's instructional program. Academic advising, on the other hand, is generally more informational in nature and is designed to describe or clarify existing programs rather than to modify those programs to meet a particular student's needs.

4.7 Course and Curriculum Development

Definition: This subprogram includes those planning and development activities established either to significantly improve or to add to the institution's curricula of instructional offerings. The activities that should be included in this subprogram are only those that result in significant changes in current course offerings or in the addition of a new course or curriculum offering. Those activities that individual faculty members carry out to update and improve their current course offerings (independent of any formalized set of activities having a course and curriculum development objective) should be considered part of the instructional program and classified appropriately in that program. The HEGIS category codes should be used if additional detail is desired. The "type of activity" classification for activities in this subprogram is described below.

- 109 *Course and Curriculum Planning*—those activities related to the planning for, or conceptualization of, new academic programs and curriculum offerings.
- 113 *Course and Curriculum Research*—those activities related to research or inquiries into new methods, theories, or concepts in course and curriculum development.
- 141 *Development/Modification of Curriculum*—those activities related to actually developing, testing, and modifying academic programs or curriculum offerings prior to their introduction and use.
- 121 *Curriculum Evaluation*—those activities related to the evaluation of the effectiveness and worthiness of academic programs or curriculum offerings after they have been

introduced and used for a period of time. These evaluation activities can be related to either new or existing academic programs.

4.8 Academic Personnel Development

Definition: This subprogram includes those activities that provide the faculty with opportunities for personal and professional growth and development as well as those activities intended to evaluate and reward the professional performance of the faculty. This subprogram should include "departmental research" activities (or some appropriate portion of those activities) when they are carried out for the express purpose of the professional and personnel development of the academic personnel. If additional detail is desired, HEGIS categories can be used for differentiation by academic department. Appropriate type of activity classifications are outlined below.

529 *Staff Development*—those activities relating to the growth and enhancement of the faculty member's professional abilities.

Examples: Departmental research (if considered as primarily a faculty development program)

Professional meetings

Publishing

Recitals

In-service faculty education programs

Sabbaticals

Faculty development programs

193 *Faculty Recognition Programs*—those activities carried out to provide recognition to faculty members for their achievements.

Examples: Monetary awards

Faculty awards

Awards banquets

STUDENT SERVICE PROGRAM

(5.0)

Definition

The Student Service program includes those activities carried out with the objective of contributing to the emotional and physical well-being of the students as well as to their intellectual, cultural, and social development outside the context of the institution's formal instruction program. The Student Service program attempts to achieve this objective by (1) expanding the dimensions of the student's educational and social development by providing cultural, social, and athletic experiences; (2) providing those services and conveniences needed by students as members of an on-campus, resident student body; and (3) assisting students in dealing with personal problems and relationships as well as in their transition from student to member of the labor force.

Discussion

There are several significant differences between the Student Service program in the second edition of the PCS and the Student Service program in the original PCS. In the revised PCS, a new subprogram (Student Service Administration, 5.1) has been added to accommodate those student-service-related administrative activities that cut across multiple subprograms within the Student Service program (for example, Dean of Students). The first edition of the PCS did not provide a place for such activities.

A second change involved providing a separate subprogram (5.6) for Intercollegiate Athletics. In the first edition, Intercollegiate Athletics was shown as a category within the subprogram, Social and Cultural Development. However, it was decided that an institution's intercollegiate athletics program generally has quite different objectives from those of its intramural athletics program (which remains within the Social and Cultural Development subprogram). Therefore, it was agreed that intercollegiate athletics should be classified separately.

Supplementary Educational Services (5.2 in the original PCS), classified now within Instruction and 5.4, Financial Aid Administration, is now a subprogram (8.2) within the new Student Access program. The first change reflects the revised definition of Instruction to include all instructional activities. The shifting of financial aid administration has been made because of the introduction of a Student Access program.

Finally, Student Health/Medical Services have been elevated to the subprogram level (5.4). This will allow one to use the "type of activity" categories developed for the Direct Patient Care subprogram (3.1) for a more detailed classification of resources/programs in the Student Health area.

5.1 Student Service Administration

Definition: This subprogram includes those administrative activities that provide assistance and support (excluding academic support) to the needs and interests of students. This subprogram only includes those administrative activities that support more than one subprogram within the Student Service program and/or provide central administrative services related to the various student service activities. Excluded from this subprogram would be the chief administrative officer for student affairs (for example, the Vice-President or Vice-Chancellor), whose activities constitute an institution-wide focus and, therefore, should be appropriately classified within 6.1, Executive Management. Also excluded from this subprogram would be those administrative functions related to the activities of a single subprogram, which should be classified within that subprogram, (for example, the activities of the Director of Counseling should be classified under 5.3, Counseling and Career Guidance).

Examples: Administrative activities typically associated with:

- Dean of Men
- Director of Student Personnel Services
- Dean of Students
- Dean of Women
- Director of Student Services

Administrative activities related to the needs of special students, such as:

- Coordinator of the deaf program
- Disadvantaged student services
- Foreign student services
- Minority affairs
- Physically handicapped student services
- Veteran services
- Women's programs
- International services

5.2 Social and Cultural Development

Definition: This subprogram includes those activities established to provide for the social and cultural development of the student outside of the formal academic program. It includes those activities primarily supported and controlled by the student body, those activities outside the student's educational experience, and general recreation activities for the student body. Excluded from this category are intercollegiate athletics, which should be classified in 5.6. Also excluded are those Equal Opportunity Program activities providing financial assistance to minority groups, which should be classified within 5.4, Financial Aid Administration.

The following categories should be used for a more detailed type of activity classification within this subprogram:

545 *Student Interest Groups*—those activities intended to promote, and provide support for, formally recognized student groups and organizations.

- Examples:** Institutional administrative support for such organizations as:
- Fraternities and sororities
 - Student associations
 - Student clubs
 - Student religious organizations
 - Student political groups
 - Student cooperatives
 - Student magazines
 - Student newspapers
 - Student yearbook
 - Student publications

233 *General Student Recreation*—those activities carried out to provide the general student body with opportunities to participate in sports and recreational activities. This cate-

gory does not include intercollegiate athletic programs in which participation is more restricted and in which competition is between institutions rather than "intra-institutional" in nature.

- Examples:** Intramural athletics
Recreation programs
Game tournaments (chess, bridge, and so forth)

117 *Cultural Events*—those activities intended to provide intellectual and cultural experiences for the students outside of, and supplementary to, the experiences they receive as part of the formal instructional program.

- Examples:** Visiting artist/concert series
Lecture series
Music activities
Art exhibitions
Concerts
Films

541 *Student Governance*—those activities intended to provide students with the opportunity to plan and direct student programs and to become involved with the management and operation of the institution.

- Examples:** Student government
Student-faculty assembly
National student lobby

5.3 Counseling and Career Guidance

Definition: This subprogram includes those formal placement, career guidance, and personal counseling services provided for the benefit of students. Activities to be included are those related to personal and disciplinary counseling, and vocational testing and counseling, as well as those activities carried out to assist students in obtaining employment upon leaving the institution. Specifically excluded from this subprogram are faculty academic advising and counseling (which should be classified in 4.6, Academic Administration) and student employment services provided as part of the financial aid program (which should be classified in 8.2, Financial Aid Administration).

The following categories should be used for a more detailed classification of activities within this subprogram:

533 Student Career Guidance and Placement Services—those activities intended to assist students in understanding and evaluating their career alternatives, as well as in obtaining full-time employment upon leaving the institution. It does not include those activities intended to assist students in obtaining part-time employment as a means for deferring part of the cost of their education. These employment-related activities should be classified in subprogram 8.2, Financial Aid Administration.

Examples: Career counseling and guidance
 Career days
 Career placement services
 Placement seminars
 Teacher placement
 Vocational counseling
 Vocational testing service

549 Student Personal Counseling—those activities intended to assist students in dealing with their personal problems, including interpersonal relationships, marriage, and behavioral problems. This category also includes counseling related to student conduct. It does not include those psychiatric or psychological counseling services carried out as part of the student health program; those activities should be classified in subprogram 5.4, Student Health/Medical Services.

Examples: Student counseling service
 Student counseling center
 Student counseling groups
 Counseling workshops
 Psychological testing

5.4 Student Health/Medical Services

Definition: This subprogram includes those activities carried out for the specific purpose of providing health and medical services for the student body. The activities included in this category are generally associated with a student infirmary rather than a teaching hospital. If health and medical services are provided for the institution's faculty or staff, they should also be included in this subprogram. Those activities related to providing medical services for individuals external to the institution should be classified in subprogram 3.1, Direct Patient Care.

As described in subprogram 3.1, there are two ways of further classifying activities within this subprogram. One way focuses on the "setting" in which the patient care services are carried out (such as inpatient, ambulatory, outreach, emergency), while the second way focuses on the "type" of care being provided (for example, medical/surgical care, rehabilitative care, behavioral). The "independence" of these two dimensions has been shown in the coding by defining "x's" in the code where the other dimension category should be shown. Therefore, the *setting* categories are coded 1xx, 2xx, 3xx, and so forth, signifying that the x's should be filled in with "type of care" codes. By the same token, *type of care* codes are x02, x03, x04, and so forth, signifying places where "setting" codes should be used.

The following categories should be used for a more detailed classification of activities by "setting" within this subprogram:

- 1xx Inpatient**—those activities designed to provide direct patient care within the confines of the care setting to persons who are residing at least overnight on the premises. Typically, inpatient clients are considered those persons who are assigned a bed at the care facility.
- 2xx Ambulatory**—those activities designed to provide direct patient care within the confines of the care setting to persons who are resident neither overnight nor beyond the time required to provide the care. Excluded from this category is emergency patient care that is delivered in an ambulatory setting.
- 3xx Outreach**—those activities in which the patient care provider goes to the patient to deliver the care, (for example, home care program). Excluded from this third category is emergency patient care in which the care provider goes to the patient.
- 4xx Emergency**—those activities designed to provide direct patient care to persons requiring immediate attention due to the acute nature of their health care problem.
- 5xx Mixed Function**—those activities that include a combination of several of the activities described above so that the individual activities cannot be separated out and classified in the appropriate categories. However, if the

individual component parts can be separately identified, they should be classified in the appropriate categories.

The following categories should be used for a more detailed classification of activities by "type of care" within this subprogram:

- x02 *Medical/Surgical Care*—those activities related to preventing, caring for, and assisting in the cure of disease and the care of the injured as well as surgical functions.
- x03 *Behavioral*—those activities related to the treatment of psychological and behavioral problems as well as to the promotion of psychological well being.
- x04 *Rehabilitative Care*—those activities related to the restoration of bodily functions and structures in order to regain patient self-sufficiency.
- x06 *Public/Community Medicine*—those activities related to the health and illness of populations.
- x07 *Patient Education*—those activities carried out to provide patients with the knowledge and attitudes needed to effectively cope with their own health problems.
- x08 *Dental Care*—those activities related to care and treatment of human teeth and structures.
- x10 *Veterinary Care*—those activities pertaining to the care and treatment of animals and their diseases.
- x11 *Supportive Care*—those activities related to conducting prescribed treatment plans and to supporting implementation of those plans (for example, patient hygiene, observation of patient status).
- x12 *Other Patient Care*

5.5 Student Auxiliary Services

Definition: This subprogram includes those conveniences and services needed to maintain an on-campus, resident student body. A fee normally is charged for these services, which is related to, but not necessarily equal to, the cost of the service rendered. The various categories within this subprogram relate to the types of activities or services carried out as part of an auxiliary service program. A particular organization, such as a "student

union" or "student center," will generally represent a combination of several of these auxiliary services and will, therefore, need to be classified appropriately in the various service categories. When several groups (students, staff, faculty, and so forth) benefit from the same auxiliary service, such as a central cafeteria or food service, a determination of the *primary* group for which the service is intended should be made and the service classified accordingly.

The following categories should be used for a more detailed classification of activities within this subprogram:

- 265 *Housing Services*—those activities related to providing residential facilities for students. This category includes those activities associated with securing off-campus housing as well as on-campus housing. Food services conducted within residential facilities should be classified in the Food Services category.
- 213 *Food Services*—those activities related to the provision of food and eating facilities for students. This category includes the services provided by dining halls, cafeterias, snack bars, and restaurants (including such services when they are carried out in residence halls).
- 485 *Retail Services and Concessions*—those activities related to the sale of products or services to students. This category includes the services provided by bookstores, school supply stores, art supply stores, movie houses, and vending machines for snacks.
- 521 *Specialized Services*—those functions that have the objective of providing special student services that cannot be appropriately classified in one of the other categories. This category includes such activities as child care services.

5.6 Intercollegiate Athletics

Definition: This subprogram includes those team and individual sports activities that involve competition between two or more educational institutions. Those activities that relate to intramural athletics should be classified within 5.2, Social and Cultural Development. Also excluded from this subprogram are the scholarships and financial aid administration activities provided in conjunction

with conducting intercollegiate athletics, which should be classified appropriately within 8.0, Student Access.

Within this subprogram there are two ways of further classifying activities, each mutually exclusive of the other. One way of further classifying activities is to focus on the "sport" (for example, baseball, basketball, football); the other way is to classify activities by "function" (for example, coaching, recruitment, athlete/team support).

The following categories can be used for a more detailed classification of activities by "sport" within this subprogram:

041 Baseball	493 Rugby
045 Basketball	513 Skiing
053 Boxing	517 Soccer
157 Diving	561 Swimming
197 Fencing	577 Tennis
217 Football	581 Track and Field
237 Golf	629 Wrestling
249 Gymnastics	Unassigned
277 Ice Hockey	•
281 Ice Skating	•
321 Lacrosse	•
489 Rowing	Unassigned

The following categories can be used for a more detailed classification of activities by "function" within this subprogram:

085 Coaching—those activities related to the coaching and instruction of individual players and teams. These activities are intended to promote the development of skills and techniques needed to achieve proficiency in sports competition.

029 Athlete/Team Support—those activities related to the physical health, condition, and day-to-day care and support of individual athletes and teams. It does not include those support

activities carried out in conjunction with conducting of athletic events.

Examples: Trainers' activities
Training table (dining facilities)
Residential facilities

477 Recruitment—those activities related to the recruitment and enrollment of student athletes.

Examples: Travel for purposes of identifying potential student athletes (scouting)
Cooperative efforts with the admissions office

101 Conduct of Events—those activities carried out in conjunction with the conduct of athletic events.

Examples: Athlete/team travel
Lodging at off-campus events
Cheerleading activities
Concessions
Ticket and program printing

285 Information Dissemination/Promotion—those activities related to providing general information about the intercollegiate athletic program, as well as those activities related to promoting the intercollegiate athletic program.

Examples: Advertising
Complimentary tickets
Sports information series
Publicity programs

409 Operation and Maintenance of Athletic Facilities—those activities related to the operation and maintenance of all sports arenas and facilities that are used in support of the intercollegiate athletics program. However, if the maintenance of such athletic facilities is part of the institution-wide maintenance program, these activities should be classified within subprogram 6.5, Physical Plant Operations.

INSTITUTIONAL SUPPORT PROGRAM (6.0)

Definition

The Institutional Support program consists of those activities carried out to provide for both the day-to-day functioning as well as the long-range viability of the institution as an operating organization. The overall objective of the Institutional Support program is to provide for the institution's organizational effectiveness and continuity. It does this by (a) providing for planning and executive direction; (b) providing for administrative and logistical services; (c) maintaining the quality of the physical environment; (d) enhancing relationships with the institution's constituencies; and (e) providing services and conveniences for the employees of the institution.

Discussion

Several significant changes have been made in the Institutional Support program in the second edition of the PCS. One was to combine the two subprograms from the original PCS (General Administrative Services, 6.3 and Logistical Services, 6.4) into a single subprogram called General Administration and Logistics, 6.3. These two subprograms were combined because it was felt that they reflected similar objectives. A second major change was to remove administrative computing support, student records, and student admissions from the original 6.3, General Administrative Services subprograms. Administrative computing support and student records were made subprograms within Institutional Support (subprograms 6.4 and 6.8, respectively); student admissions and recruiting were made a subprogram (8.1) in the new Student Access (8.0) program.

6.1 Executive Management

Definition: This subprogram consists of those executive-level activities concerned with the overall management of, and long-range planning for, the entire institution. Included within this subprogram are the activities of the various "actors" involved in policy formulation and executive direction, including the activities of the governing board, the chief executive officer, and the senior executive officers.

Legal activities conducted on behalf of the institution are also included here. Those administrative activities that do not have an institution-wide focus should be excluded.

177 Executive Direction—those activities performed by or involving either the senior executive officers or executive boards.

Examples: The activities typically associated with:

- Board of Trustees
- Governing Board
- Chancellor
- Legislative Liaison
- Provost
- President/Vice-President Emeritus
- Vice-Chancellors
- Vice-Presidents/Provosts
- Executive Special Committee
- Executive Special Projects

433 Planning and Program Development—those activities related to the institution-wide planning and design functions carried out in support of the activities of the executive officers or governing boards.

Examples: Analytical studies

- Institutional research
- Academic senate
- Budget planning
- Long-range planning committee
- Policy committees

329 Legal Services—those legal activities conducted on behalf of the institution.

Examples: Activities typically associated with:

- General counsel
- Patent attorney

6.2 Financial Management and Operations

Definition: This subprogram consists of those activities related to the day-to-day financial management and fiscal operations of the institution. Activities related to long-range financial planning and policy formulations should be included in 6.1, Executive Management.

205 Financial Management and Control—those activities related to the day-to-day management, control, and accounting for the finances of the institution.

Examples: Activities typically associated with:

- Treasurer
- Comptroller
- Business Officer (financial duties)
- Internal auditing
- Administration of the budget

209 Financial Operations—those activities involving the actual collection, processing, and disbursement of institutional funds.

Examples: Debt collection

- Payroll operations
- Bursar
- Cashier
- Disbursement

305 Investment Management—those activities related to the control and administration of the institution's investment and endowments.

Examples: Cash flow management
Endowment management

245 Grants and Contracts Financial Management—those activities related to the financial management and administration of grants and contracts. Excluded from this category are those activities that involve the preparation and submission of grants and contracts, which should be classified as 6.7, Public Relations and Development.

Examples: Contracts management
Grants accounting

6.3 General Administration and Logistical Services

Definition: This subprogram consists of those activities related to the general administrative operations and services of the institution (with the exception of those activities related to financial operations, to administrative data processing, and to student records). Included in this subprogram are those activities related to (1) the administration of personnel programs, (2) the management of the institution's facilities, (3) the purchasing and maintenance of supplies and materials, (4) campus-wide communication and transportation services, and

(5) the health and safety of the campus population. Those activities relating to financial operations should be classified within subprogram 6.2, Financial Management and Operations; activities involving student records should be classified within subprogram 6.8, Student Records; and activities related to administrative computing services should be classified in subprogram 6.4, Administrative Computing Support.

429 Personnel Management and Support—those activities involving the recruiting and hiring of faculty and staff, those activities related to the administration of employee programs, and those activities related to the development of administrative personnel.

Examples: Affirmative Action Officer
Personnel Administration
Equal Opportunity Office
Labor Relations Office
Administrative staff development programs
Recruiting
Staff insurance programs
Retirement programs
Faculty records

189 Facilities Management—those activities related to the management, allocation, and scheduling of rooms and other institutional facilities as well as the maintenance of records concerning institutional facilities.

Examples: Room scheduling
Space allocation
Facilities records
Facilities reporting

261 Health and Safety Services—those activities carried out to provide for the environmental well-being and security of the campus and its residents.

Examples: Police protection
Campus security
Fire protection
Trash collection
Traffic control

437 Procurement and Materials Handling—those activities involving the acquisition, storage, and movement of materials.

Examples: Purchasing
Receiving/Shipping

Freight management
Inventory control
Warehousing

585 *Transportation Services*—those activities involving campus transportation systems and services.

Examples: Motor pool services
Car pool services
Operation of buses
Parking services

089 *Communication Services*—those campus communication services that are directly related to the operation of the institution. Excluded are on-campus broadcasting activities.

Examples: Campus mail services
Copying services
Duplicating services
Printing services
Telephone and telegraph services

6.4 Administrative Computing Support

Definition: This subprogram includes those computer services that have been established to provide support for institution-wide administrative functions. Academic-related data processing services and computing support should be included in subprogram 4.4, Academic Computing Support. The "type of activity" classification for this subprogram is described below and can be shown using the fifth digit in the field.

441 *Production Operations*—those activities related to the operation of the computing system.

Examples: Data entry
Production control
Computer operations
Data librarian

565 *Systems Support*—those activities related to software design, including support of the operating system and other related software.

Examples: Development of the operating system
Development of language compilers (COBOL, FORTRAN, and so forth)
Development of generalized software packages (SPSS, BMD, and so forth)
Development of special systems for general usage

021 *Applications*—those activities related to specific user projects. This category differs from the previous one in that it includes those activities that are directed toward specific users and user needs rather than toward the system in general and general systems support.

Examples: Programming
Special systems
Advising

285 *Information Dissemination/Promotion*—those activities related to maintaining and distributing information of interest to users of the computer services.

Examples: Library
Newsletter

6.5 Physical Plant Operations

Definition: This subprogram consists of those activities related to maintaining existing grounds and facilities, providing utility services, and planning and designing future plant expansions and modifications (campus architects, construction engineers, and so forth). The actual capital expenditures used for plant expansion and modification should be excluded since they represent expenditures of the Plant Fund rather than the Current Fund and would, therefore, not be classified in the PCS.

069 *Building Maintenance*—those activities related to routine repair and maintenance of buildings and structures, including both normally recurring repairs and preventive maintenance.

Examples: Maintenance of the interior and exterior of buildings; maintenance of classroom furniture not inventoried to a department; operating and replacement costs for equipment and material used in connection with building maintenance.

125 *Custodial Services*—those activities related to custodial services in institutional buildings.

Examples: Cleaning activities
Elevator operation

605 *Utilities*—those activities related to heating, cooling, light and power, gas, water, and any other utilities necessary for the operation of the physical plant.

Examples: Power plant equipment
Sewage disposal
Central air conditioning

325 *Landscape and Ground Maintenance*—those activities related to the operation and maintenance of campus landscape and grounds.

Examples: Maintenance of trees, grass, shrubs
Maintenance of roads and walks
Snow removal

341 *Major Repairs and Renovation*—those activities related to major repairs, maintenance, and renovations. Major projects are defined as those costing in excess of \$10,000.

105 *Construction Planning*—those activities related to the development of plans and designs for plant expansion or modification. Those planning activities related to the process of deciding whether to initiate a major construction project are more appropriately classified within subprogram 6.1, Executive Management. The actual capital expenditures for plant expansion or modification are excluded.

6.6 Faculty and Staff Auxiliary Services

Definition: This subprogram includes those support services that have been established primarily to serve the faculty and staff. The various categories within this subprogram relate to the types of activities or services carried out as part of an auxiliary service program. A particular organization, such as a "faculty club," will generally represent a combination of several of these auxiliary services and will, therefore, need to be classified appropriately in the various service categories. A fee normally is charged for these services, often directly related to, but not necessarily equal to, the cost of the service rendered. Auxiliary services that benefit several groups (for example, a food service benefitting students, faculty, and staff) should be classified according to the primary group for which the service is intended. If health and medical services are provided for the faculty or staff they should be classified in subprogram 5.4, Student Health/Medical Services. Excluded from this subprogram are those activities related to the administration of personnel programs, which should be included in 6.3, General Administrative Services.

265 *Housing Services*—those activities that have the objective of providing residential facilities for faculty and staff. This category includes those activities associated with securing off-campus housing as well as on-campus housing.

213 *Food Services*—those activities that have the objective of providing food and eating facilities specifically for faculty and staff. This category includes dining halls, cafeterias, snack bars, and restaurants.

485 *Retail Services and Concessions*—those activities related to the sale of products or services primarily to faculty and staff rather than to students.

521 *Specialized Services*—those activities that have the objective of providing special services specifically for faculty and staff. This category includes such activities as child care services and faculty recreational activities.

6.7 Public Relations/Development

Definition: This subprogram consists of those institutional activities established to maintain relations with the local community, the institution's alumni, governmental entities, and the public in general, as well as those activities carried out to support institution-wide fund raising and development efforts. Those activities that involve the use of alumni in recruiting students should be classified in subprogram 8.1, Student Recruitment and Admissions. Also excluded from this subprogram are those activities carried out as a public service (see definition of the Public Service program) rather than with a public relations objective.

285 *Information Dissemination/Promotion*—those activities designed to communicate *general* information about the activities, goals, and objectives of the institution to various audiences, both internal and external to the institution. Many of the communication activities in this category are carried out through the mass media.

Examples: Internal newsletters
Audiovisual presentations
News releases
Community affairs programs
Public opinion surveys

241 Governmental Relations—those activities related to maintaining and cultivating relationships with governmental entities, as well as those activities designed to obtain governmental financial support.

Examples: Governmental relations activities
Development of proposals for governmental grants and contracts
Governmental lobbying efforts

013 Alumni and Constituency Relations—those activities related to maintaining and cultivating relationships with the alumni and other constituents who might have an interest in the institution. Constituents include donors, governing board members, prospective supporters, parents, foundations, corporations, church groups, and so forth. The activities included in this category differ from those classified as "Information Services" in that they are specifically targeted toward and intended to impact particular interest groups rather than being generally informative in nature.

Examples: Alumni publications
Alumni events
Publications and events for non-governmental constituents

397 Nongovernmental Fund Solicitation—those activities related to the actual solicitation of gifts or grants and contracts from private sources, such as individuals, corporations, and foundations.

Examples: Development of proposals for grants
Alumni fund raising activities
Gifts solicitation

6.8 Student Records

Definition: This subprogram includes those activities the institution carries out to maintain, handle, and up-date records for currently enrolled students as well as for those who were previously enrolled. This subprogram does not include the activities related to record-keeping for those seeking admission to the institution; these activities should be classified in subprogram 8.1, Student Recruitment and Admissions.

Examples: Activities typically associated with the registrar's office, such as:

Student records maintenance and upkeep
Correspondence related to student records
Maintenance of records for previously enrolled students

INDEPENDENT OPERATIONS PROGRAM (7.0)

Definition

The Independent Operations program makes it possible to classify those program elements that are independent of, or unrelated to, the primary missions of the institution. The Independent Operations program includes those operations that are owned or controlled by the institution as investments, but *only* if they are financed as part of the institution's current operations. Operations that represent investments of the institution's endowment funds should be accounted for in the Endowment Fund Group and therefore should not be classified in the PCS (which is used to classify only current operations and accounts).

Discussion

No major changes were made in the definition of this program from the first edition of the PCS to the revised PCS.

7.1 Independent Operations/Institutional

Definition: This subprogram includes those activities that are operations owned or controlled by the institution but that are unrelated to or independent of the institution's mission. Excluded from this subprogram are those operations managed as investments of the institution's endowment funds.

Examples: Airport

- Bowling alley
- Commerical rental property
- Conference center
- Hotel
- Radio station
- Restaurant
- Television station

7.2 Independent Operations/External Agencies

Definition: This subprogram includes those activities that are controlled or operated by outside agencies, but that are housed or otherwise supported in some way by the institution. Specifically included here are the 21 federally funded research centers listed below; all institutionally operated research centers should be classified

within subprogram 2.1, Institutes and Research Centers.

Federally Funded Research Centers:

- Ames Laboratory
- Applied Physics Laboratory
- Argonne National Laboratory
- Brookhaven National Laboratory
- Center for Naval Analysis
- Cerro Tololo Inter-American Observatory
- E.O. Lawrence Berkeley Laboratory
- E.O. Lawrence Livermore Laboratory
- Jet Propulsion Laboratory
- Kitt Peak National Laboratory
- Lincoln Laboratory
- Los Alamos Scientific Laboratory
- National Accelerator Laboratory
- National Astronomy and Ionosphere Center
- National Center for Atmospheric Research
- National Radio Astronomy Observatory
- Oak Ridge Associate Universities
- Ordnance Research Laboratory
- Plasma Research Laboratory
- Space Radiation Effects Laboratory
- Stanford Linear Accelerator Center

STUDENT ACCESS PROGRAM

(8.0)

Definition

The Student Access program includes those activities carried out with the objective of obtaining a student body having those characteristics the institution desires (such as academic qualifications and capabilities, socioeconomic status, racial/ethnic background, athletic abilities). Included in this program are those activities carried out (1) to identify prospective students, (2) to promote attendance at the institution, (3) to provide prospective students with incentives to attend the institution (including financial assistance), and (4) to process the admissions applications of potential students. It does not include promotional activities designed to create a favorable image of the institution with the general public (these activities should be classified in subprogram 6.7, Public Relations/Development), but it does include those activities specifically intended to influence the attendance decisions of prospective students (for example, participation in high school "college fairs").

Discussion

The introduction of the Student Access program represents the recognition that one of the most important objectives of any educational institution is to provide itself a student body that satisfies the criteria it considers important in carrying out its educational mission. Historically, the "student access program" concerned itself primarily with obtaining a student body that possessed either particular academic capabilities or particular athletic abilities. More recently, the list of desired student body characteristics has been expanded to include socioeconomic status and racial/ethnic characteristics.

Quite obviously, because the kind of "educational experience" provided in any institution depends in large part upon the kinds of students involved in its programs and the interactions among those students, obtaining a student body with a particular mix of characteristics represents a very important set of institutional objectives. This PCS program

category has been developed to allow the institution to address those objectives directly.

Obtaining a particular kind of student body not only requires that the institution identify and admit acceptable applicants, but in many cases also requires that the institution provide incentives designed to ensure their application and subsequent attendance. Incentives may take the form of direct financial assistance (such as scholarships and fellowships) or they may simply involve persuasion and active recruitment. Therefore, the concepts of recruitment and financial aid (both the stipends and the administration of the financial aid program) have been built into the Student Access program along with activities carried out to process applications for admission.

8.1 Student Recruitment and Admissions

Definition: This subprogram consists of those activities carried out by an institution related to (1) the identification of prospective students, (2) the promotion of attendance at the institution, and (3) the processing of applications for admission to the institution. In addition, for the proprietary sector of postsecondary education, this subprogram includes activities related to sales operations, advertising, and marketing.

The following categories can be used for a more detailed functional classification of activities with this subprogram:

447 Recruitment—those activities related to the identification of potential students and to the active recruitment of students for admission to the institution. The focus of these activities is on influencing the decision of a particular student or target group either to apply for admission or to attend once admission has been granted.

Examples: Recruiting trips

- Providing information for prospective students (for example, admissions catalog)
- Communication with high schools
- Conducting high school career nights
- Recruiting/sales commissions

Advertising campaigns
Marketing activities

525 *Student Admissions*—those activities carried out in interviewing and evaluating potential students, processing applications for admission, and admitting students to the institution.

Examples: Interviewing student applicants
Evaluation of student applicants
Administrative admissions procedures

8.2 Financial Aid Administration

Definition: This subprogram includes those administrative activities carried out in support of the institution's financial aid program. Excluded from this subprogram are the actual financial aid grants and stipends, which should be classified in 8.3, Scholarships and 8.4, Fellowships.

The following categories should be used for a more detailed classification of activities within this subprogram:

201 *Financial Aid Counseling and Evaluation*—this category includes financial aid counseling with students and parents to provide information about educational costs, eligibility for aid programs, and the types of financial aid available. It also includes those activities related to the review and evaluation of an applicant's eligibility for financial aid, the determination of the award, and the notification of applicants.

473 *Records Maintenance and Reporting*—includes those activities related to maintaining, updating, and storing financial aid records. This category also includes those activities related to reporting on the conduct and impact of the institution's financial aid program to institutional planners, governmental agencies, and private donors.

537 *Student Employment Services*—those activities that are part of the institution's financial aid program and that are intended to assist students, their spouses, and dependents in finding full- or part-time work, through employment opportunities both on and off campus. This category includes the activities associated with work/study programs but does not include those activities related to "job placement" for the institution's graduates.

8.3 Scholarships

Definition: This subprogram includes all financial assistance provided to undergraduate students in the form of outright grants, trainee stipends, and prizes, either awarded by and/or administered through the institution.

Included in this subprogram would be tuition and fees, waivers and remissions, and all gifts and prizes to students that are outright grants and not contingent upon the student rendering services to the institution (with the exception of intercollegiate athletic scholarships, which should be classified in this subprogram).

This subprogram excludes waivers or remissions of tuition and fees granted as a result of either faculty or staff status or family relationship of students to faculty or staff. Such waivers and remissions should be recorded as staff fringe benefit expenses and categorized in the appropriate subprogram in the PCS (for example, if the staff member is primarily involved in providing instruction, those expenses would be classified appropriately within the Instruction program). Also excluded from this program are loans (which represent conversion of assets) and work/study assistance (which is a payment for services rendered).

The following criteria were developed by the Joint Accounting Group (JAG)* to determine which monies should be included as "scholarships:"

1. The monies must represent expenditures of the Current Funds group.
2. The institution must have fiscal control of the funds used to make the grant.
3. The recipients should not be formally required to render services to the institution as consideration for the grant (with the exception of intercollegiate athletic scholarships), nor should they be expected to repay the amount of the grant to the funding source.
4. The institution must have selected the recipient of the grant. If the institution is given control of the monies, but is not allowed to select the recipient of the grant (for example, the federal Basic Educational Opportunity Grants program),

**Report of the Joint Accounting Group, National Center for Higher Education Management Systems (NCHEMS), National Association of College and University Business Officers (NACUBO), American Institute of Certified Public Accountants (AICPA), 1974.*

the funds should be reported in the Agency Funds group rather than in the Current Funds group.

Examples: Grants-in-aid (undergraduate)
Prizes
Trainee stipends (undergraduate)
Tuition/fee waivers
Intercollegiate athletic scholarships

8.4 Fellowships

Definition: This subprogram includes all financial assistance provided to graduate level students as outright grants-in-aid and trainee stipends. Excluded from this category are funds for which services to the institution must be rendered (for example, teaching assistants, research assistants). Student loans also are excluded. The same criteria outlined in subprogram 8.3 should be used in determining those types of assistance that are to be considered "fellowships."

APPENDICES

Appendix I TAXONOMY OF SUBJECT AREAS

The first edition of the PCS incorporated the HEGIS Taxonomy as the structure to be used for a more detailed classification of activities and resources within the Instruction program (1.0). The HEGIS Taxonomy was developed in 1970 by the National Center for Educational Statistics and documented in *A Taxonomy of Instructional Programs in Higher Education**.

While the HEGIS Taxonomy was a highly useful structure in the first edition of the PCS, it also had some significant drawbacks. The HEGIS Taxonomy was originally intended to be used for the classification of student programs, but has subsequently been used to classify both student programs and academic disciplines. The reason it was possible to use it for both the classification of academic disciplines and student programs is that since the HEGIS Taxonomy does not include definitions as part of the structure, it is primarily a list of "labels." For example, it is possible to use the label "English," because it is not defined, to classify either an English discipline or an English student major. While the flexibility afforded by a lack of definitions may be an advantage of sorts, it also severely limits the utility of the HEGIS Taxonomy as a tool for obtaining compatible information (regardless of whether it is discipline or program information).

In addition to the lack of definitions, a second major drawback of the HEGIS Taxonomy is its limited applicability across all of postsecondary education. Since the time of its introduction, both community colleges and occupational/vocational schools have been forced to supplement the HEGIS Taxonomy categories with the classification structure described in Handbook VI** of the State Educational Records and Report Series; in fact, the Handbook VI structure was designed to serve elementary-secondary and vocational-technical education. However, as Adult Basic Education, Adult/Continuing Education, multi-disciplinary

*Robert A. Huff and Marjorie O. Chandler, *A Taxonomy of Instructional Programs in Higher Education*, Section 1: "Conventional Academic Subdivisions of Knowledge and Training" (Washington, D.C.: National Center for Educational Statistics, 1971).

**Handbook VI, *Standard Terminology for Curriculum and Instruction in Local and State School Systems* (Washington, D.C.: National Center for Educational Statistics, 1970).

programs, and nontraditional programs have become an increasingly important part of planning within postsecondary education, both the HEGIS Taxonomy and the Handbook VI structures have been found to be insufficient for the needs they were expected to serve.

In recognition both of the shortcomings in the two existing structures (Handbook VI and the HEGIS Taxonomy) and of the increased need for a single classification scheme for all subject areas, the National Center for Education Statistics recently funded a project, "Classification of Educational Subject Matter." This project is attempting to devise a single classification structure that, when completed (1) will be applicable to those subject areas taught in elementary/secondary education, in postsecondary education, and in adult/continuing education programs, (2) will be sufficiently comprehensive to encompass all of postsecondary education, and (3) will include definitions for each category in the structure. It is anticipated that this project will result in a single, comprehensive structure some time in 1977.

It should be pointed out that the new comprehensive structure, in its current form (as outlined in the review edition of the structure document), incorporates an eight-digit hierarchical coding scheme. An example of the hierarchical array used in the new classification structure is shown below:

- 20. Social Sciences (Level I—major category)
- 20.02 Economics (Level II—subcategory)
- 20.02.11 Principles and Theory of Economics (Level III)
- 20.02.11.01 Macroeconomic Economics (Level IV)

Since the HEGIS Taxonomy uses only a four-digit coding scheme, this longer coding field may create problems for some institutions. However, it is difficult to assess the degree of potential difficulties that will be encountered in using the new structure because there are significant differences between the old Taxonomy and the new classification structure. In fact, the hierarchical nature of the new structure may allow many organizations to continue to use only four digits of the new eight-digit field and still have as much detail as they need.

Because the new classification structure is still in the development stages and no decision has yet been made concerning a structure for "student programs" (the new classification structure is applicable to subject areas only), the Review Edition of the *Program Classification Structure: Second Edition* is continuing to incorporate the original HEGIS Taxonomy. However, before the final edition of the revised PCS is published, NCHEMS will decide which classification structure will be used (either the Classification of Educational Subject Matter or the HEGIS Taxonomy). While the final edition of the revised PCS will probably choose to incorporate the new comprehensive subject matter classification structure, NCHEMS will want to see a final version of that structure prior to making that decision.

This Appendix in the review edition of the revised PCS, therefore, outlines the *original* HEGIS Taxonomy for the time being. If it is ultimately decided that the new comprehensive structure is to be incorporated in the revised PCS, that structure will be included in the final edition document.

The HEGIS Taxonomy*

Section I:

CONVENTIONAL ACADEMIC SUBDIVISIONS OF KNOWLEDGE AND TRAINING

Title	Code
Accounting	0502
Administration, business	0506
Administration, educational	0827
Administration, public	2102
Administration, special education	0809
Adult education	0807
Advertising	0604
Aeronautical engineering	0902
Aerospace engineering	0902
Aerospace science	1803
African languages (non-Semitic)	1116
African studies	0305
Afro-American studies	2211
Agricultural business	0112
Agricultural economics	0111
Agricultural engineering	0903
Agricultural management	0110
Agriculture, general	0101
Agriculture technologies	0116
Agronomy	0102
American Indian cultural studies	2212
American studies	0313
Analytical chemistry	1909
Anatomy	0412
Animal science	0104

*Source: Robert A. Huff and Marjorie O. Chandler, *A Taxonomy of Instructional Programs in Higher Education* (Washington, D.C.: National Center for Educational Statistics, Office of Education, 1970).

Anthropology	2202
Applied design	1009
Applied mathematics	1703
Arabic	1112
Archeology	2203
Architectural engineering	0904
Architecture	0202
Architecture, naval	0923
Art	1002
Art appreciation	1003
Art, commercial	1009
Art education	0831
Art history	1003
Asian studies, general	0301
Astronautical engineering	0902
Astronomy	1911
Astrophysics	1912
Atmospheric sciences	1913
Audiology	1220
Bacteriology	0403
Banking	0504
Biblical languages	2303
Biochemistry	0414
Bioengineering	0905
Biological and physical sciences (interdisciplinary)	4902
Biology, cellular	0417
Biology, general	0401
Biology, marine	0418
Biology, molecular	0416
Biomedical communication	1217
Biomedical engineering	0905
Biometrics	0419
Biophysics	0415
Biostatistics	0419
Black culture studies	2211
Botany, general	0402
Business administration	0506
Business, agricultural	0112
Business economics	0517
Business education	0838
Business, general	0501
Business, international	0513
Business management	0506
Business statistics	0503
Cafeteria management	1307
Catalan	1199
Cell biology	0417
Cell physiology	0417
Ceramic engineering	0916
Ceramics	1009
Chemical engineering	0906
Chemistry, general	1905
Child development	1305
Chinese	1107
Chiropractic	1221
Cinematography	1010
City planning	0206
Civil engineering	0908
Classics	1504
Clinical psychology	2003
Clinical social work	1222
Clothing	1303
Commerce education	0838
Commerce, general	0501
Commercial art	1009
Communication media	0605
Communications, general	0601
Communications engineering	0909
Community college education	0806

Continuing education	0807	English, literature	1502
Corrections	2105	Entomology	0421
Counseling, educational	0826	Environmental design, general	0201
Counseling, psychology for	2004	Environmental engineering	0922
Creative writing	1507	European studies, general	0310
Criminology	2209	Experimental psychology (animal and human)	2002
Crop management	0102	Family life education	0837
Curriculum	0829	Family relations	1305
Cytology	0417	Farm management	0110
Community planning	0206	Fashion design	1009
Community services, general	2101	Field crops	0102
Comparative literature	1503	Finance	0504
Computer programming	0704	Fine arts, general	1001
Computer sciences, general	0701	Finnish	1199
Construction engineering	0908	Fish management	0107
Consumer economics	1304	Floriculture	0109
		Foods and nutrition	1306
		Food science	0113
Dairy sciences	0105	Food technology	0113
Dance	1008	Foreign languages, general	1101
Danish	1114	Forensic science	1506
Data processing	0703	Forestry	0114
Debate	1506	Forestry technologies	0116
Demography	2215	French	1102
Dental hygiene	1213	Fruit production	0108
Dental specialties	1205		
Dental technologies	1224	Game management	0107
Dentistry, D.D.S. or D.M.D. degree	1204	General liberal arts and sciences (interdisciplinary)	4901
Developmental psychology	2009	Genetics	0422
Dietetics	1306	Geochemistry	1915
Distributive education	0838	Geography	2206
Dramatic arts	1007	Geological engineering	0911
Drawing	1002	Geology	1914
Driver education	0836	Geophysical engineering	0912
		Geophysics	1916
Earth sciences, general	1917	German	1103
East Asian studies	0302	Government	2207
Eastern European studies	0311	Greek, classical	1110
Ecology	0420	Guidance, education	0826
Economics	2204		
Economics, agricultural	0111	Health care administration	1202
Economics, business	0517	Health education	0837
Education of the culturally disadvantaged	0813	Health professions, general	1201
Education of the deaf	0812	Hebrew	1111
Education of the emotionally disturbed	0816	Helping services	2104
Education, general	0801	Higher education, general	0805
Education of the gifted	0811	History	0413
Education of mentally retarded	0810	History	2205
Education of the multiple handicapped	0820	History of education	0821
Education of the physically handicapped	0819	Home decoration	1302
Education, religious	2304	Home economics, general	1301
Education of the visually handicapped	0814	Home equipment	1302
Educational administration	0827	Home management	1304
Educational evaluation	0825	Horticulture	0108
Educational measurement	0825	Hospital administration	1202
Educational psychology	0822	Hotel management	0508
Educational research	0824	Humanities and social sciences (interdisciplinary)	4903
Educational statistics	0824	Husbandry, animal	0104
Educational supervision	0828	Husbandry, dairy	0105
Educational testing	0825		
Electrical engineering	0909	Ichthyology	0499
Electronics engineering	0909	India studies	0303
Elementary education, general	0802	Indian (Asiatic)	1113
Embryology	0427	Industrial arts education	0839
Engineering, general	0901	Industrial engineering	0913
Engineering mechanics	0921	Industrial psychology	2008
Engineering and other disciplines (interdisciplinary)	4904	Industrial relations	0516
Engineering physics	0919	Information sciences	0702
Engineering technologies	0925	Information sciences, general	0701
English as a foreign language	1508		
English, general	1501		

Information systems	0702	Music, theory	1004
Inorganic chemistry	1906	Musicology	1006
Institutional management	1307		
Instruction	0829	Natural resources management	0115
Insurance	0512	Naval architecture	0923
Interior decoration	1009	Naval science	1802
Interior design	0203	Neurosciences	0425
International business	0513	Norwegian	1114
International public service	2106	Nuclear engineering	0920
International relations	2210	Nuclear physics	1904
Investments	0505	Nursery science	0109
Islamic studies	0306	Nursing (baccalaureate and higher programs)	1203
Italian	1104	Nutrition, scientific	0424
Japanese	1108	Occupational therapy	1208
Jewelry	1009	Ocean engineering	0924
Journalism	0602	Oceanography	1919
Junior college education	0806	Operations research	0507
Junior high school education	0804	Optometry	1209
		Organic chemistry	1907
Kindergarten education	0823	Ornamental horticulture	0109
Korean	1199	Ornithology	0499
		Osteopathic medicine, D.O. degree	1210
Labor relations	0516		
Landscape architecture	0204	Pacific area studies	0314
Latin	1109	Painting	1002
Latin American studies	0308	Paleontology	1918
Law enforcement	2105	Parasitology	0499
Law, general	1401	Park management	2103
Learning theory	0822	Pathology, animal	0408
Liberal arts and sciences (interdisciplinary)	4901	Pathology, human	0408
Library science, general	1601	Pathology, plant	0404
Limnology	0499	Personnel management	0515
Linguistics	1505	Petroleum engineering	0907
Literature, comparative	1503	Petroleum refining	0906
Literature, English	1502	Pharmaceutical chemistry	1910
		Pharmacology, animal	0409
Management, business	0506	Pharmacology, human	0409
Management, engineering	0913	Pharmacology, plant	0405
Marine biology	0418	Pharmacy	1211
Marine engineering	0923	Philology	1505
Marketing	0509	Philosophy	1509
Materials engineering	0915	Philosophy of education	0821
Mathematics, applied	1703	Phonetics	1505
Mathematics, education	0833	Photography	1011
Mathematics, general	1701	Physical chemistry	1908
Mathematics, statistics	1702	Physical education	0835
Mechanical engineering	0910	Physical sciences, general	1901
Medical laboratory technologies	1223	Physical therapy	1212
Medical record librarianship	1215	Physics, general	1902
Medical specialties	1207	Physiological psychology	2010
Medicine, M.D. degree	1206	Physiology, animal	0410
Metallurgical engineering	0914	Physiology, human	0410
Metallurgy	1920	Physiology, plant	0406
Metalsmithing	1009	Plant pathology	0404
Meteorology	1913	Plant pharmacology	0405
Mexican-American cultural studies	2213	Plant physiology	0406
Microbiology	0411	Podiatry	1216
Middle Eastern studies	0309	Political science	2207
Military science	1801	Poultry science	0106
Mineral engineering	0918	Pre-elementary education	0823
Mining engineering	0918	Programming, computer	0704
Molecular biology	0416	Psychology, clinical	2003
Molecular physics	1903	Psychology for counseling	2004
Music (liberal arts program)	1005	Psychology, developmental	2009
Music appreciation	1006	Psychology, education	0822
Music, composition	1004	Psychology, general	2001
Music education	0832	Psychology, industrial	2008
Music history	1006	Psychology, physiological	2010
Music, performing	1004	Psychology, social	2005

Psychometrics	2006	Urban architecture	0205
Public address	1506	Urban studies	2214
Public administration	2102	Vegetable production	0108
Public health	1214	Veterinary medicine, D.V.M. degree	1218
Public utilities	0510	Veterinary medicine specialties	1219
Purchasing	0509	Vietnamese	1199
Radio	0603	Vocational education	0839
Radiobiology	0423	Weaving	1009
Radiologic technologies	1225	West European studies	0312
Range management	0117	Wildlife management	0107
Reading education	0830	Writing, creative	1507
Real estate	0511	Zoology, general	0407
Recreation management	2103		
Regional planning	0206	Section II:	
Rehabilitation services	1222	TECHNOLOGICAL AND OCCUPATIONAL CUR-	
Religious education	2304	RICULUMS LEADING TO ASSOCIATE DEGREES	
Religious music	2302	AND OTHER AWARDS BELOW THE	
Religious studies	1510	BACCALAUREATE	
Remedial education	0817		
Restaurant management	0508		
Rhetoric	1506		
Russian	1106		
Russian studies	0307		
Safety education	0836		
Sanitary engineering	0922		
Sanskrit	1199		
Scandinavian languages	1114		
Science education	0834		
Sculpture	1002		
Secondary education, general	0803		
Secretarial studies	0514		
Securities	0505		
Seismology	1916		
Semantics	1505		
Slavic languages (other than Russian)	1115		
Slavic studies	0307		
Social foundations of education	0821		
Social sciences, general	2201		
Social psychology	2005		
Social work	2104		
Sociology	2208		
Soil conservation	0103		
Soil management	0103		
Soil science	0103		
South Asian studies	0303		
Southeast Asian studies	0304		
Spanish	1105		
Special education, general	0808		
Special learning disabilities	0818		
Speech	1506		
Speech correction	0815		
Speech pathology	1220		
Statistics, mathematical and theoretical	1702		
Statistics in psychology	2007		
Student personnel	0826		
Swedish	1114		
Systems analysis	0705		
Systems, information	0702		
Teaching of English as a foreign language	1508		
Technical education	0839		
Television	0603		
Textile design	1009		
Textile engineering	0917		
Textiles, home economics	1303		
Theological professions, general	2301		
Toxicology	0426		
Transportation	0510		
Transportation engineering	0908		
Urban architecture	0205		
Urban studies	2214		
Vegetable production	0108		
Veterinary medicine, D.V.M. degree	1218		
Veterinary medicine specialties	1219		
Vietnamese	1199		
Vocational education	0839		
Weaving	1009		
West European studies	0312		
Wildlife management	0107		
Writing, creative	1507		
Zoology, general	0407		
		Title	Code
		Accounting technologies	5002
		Advertising design technologies	5012
		Advertising technologies	5004
		Aeronautical technologies	5302
		Agriculture technologies	5402
		Air conditioning technologies	5317
		Airport management technologies	5004
		Animal laboratory assistant technologies	5206
		Appliance repair technologies	5310
		Applied arts technologies	5012
		Architectural drafting technologies	5304
		Automotive technologies	5306
		Aviation technologies	5302
		Banking technologies	5003
		Bible study	5502
		Biological laboratory assistant technologies	5205
		Broadcasting technologies	5008
		Building technologies	5317
		Business management technologies	5004
		Business technologies, general	5001
		Carpentry technologies	5317
		Chemical technologies	5305
		Civil technologies	5309
		Commerce technologies, general	5001
		Communications technologies	5008
		Computer operator technologies	5104
		Computer, peripheral equipment operation technologies	5104
		Computer programmer technologies	5103
		Construction technologies	5317
		Corrections technologies	5505
		Cosmetologist	5006
		Data processing equipment maintenance technologies	5105
		Data processing technologies, general	5101
		Dental assistant technologies	5202
		Dental hygiene technologies	5203
		Dental laboratory technologies	5204
		Diesel technologies	5307
		Distribution technologies	5004
		Drafting, architectural	5304

Education technologies	5503	Photogrammetry technologies	5309
Electrician technologies	5317	Photography technologies	5007
Electro diagnostic technologies	5217	Physical therapy technology	5219
Electromechanical technologies	5311	Plastics technologies	5305
Electronics and machine technologies	5310	Plumbing technologies	5317
Engineering graphics	5303	Police technologies	5505
Engineering technologies, general	5301	Printing technologies	5009
Environmental health technologies	5408	Programmer technologies	5103
Finance technologies	5003	Psychiatric technologies	5216
Fine arts technologies	5012	Public administration and management technologies	5508
Fire control technology	5507	Public health inspection technologies	5408
Fisheries technologies	5403	Public service technologies, general	5501
Food services technologies	5404	Public utility technologies	5011
Forestry technologies	5403	Purchasing technologies	5004
Graphic arts technologies	5012	Radio broadcasting technologies	5008
Health services assistant technologies, general	5201	Radio repair technologies	5310
Heating technologies	5317	Radiologic technologies	5207
Home economics technologies	5405	Real estate technologies	5004
Horticulture technologies	5402	Recreation technologies	5506
Hospital food service technologies	5404	Religion related occupations	5502
Hotel management technologies	5010	Rest home management technology	5218
Industrial management technologies	5004	Restaurant management technologies	5010
Industrial technologies	5312	Sales technologies	5004
Inhalation therapy technologies	5215	Sanitation technologies	5408
Input preparation technologies	5102	Secretarial technologies	5005
Institutional management technologies	5218	Sheet metal technologies	5317
Instrumentation technologies	5314	Social work related technologies	5506
Insurance technologies	5004	Stewardess preparation	5006
Key punch operator technologies	5102	Surgical technologies	5211
Laboratory technologies, general	5407	Surveying technologies	5309
Landscape technologies	5402	Teacher aide preparation	5503
Law enforcement technologies	5505	Television broadcasting technologies	5008
Library assistant technologies	5504	Television repair technologies	5310
Lithography technologies	5009	Textile technologies	5313
Machine drafting and design technologies	5303	Tool design technologies	5303
Machine repair technologies	5310	Transportation technologies	5011
Marina equipment technologies	5004	Welding technologies	5308
Marine technologies	5406	Wildlife technologies	5403
Marketing technologies	5004	X-ray technologies	5207
Mechanical technologies	5315		
Mechanical technologies, general	5301		
Medical assistant technologies	5214		
Medical laboratory assistant technologies	5205		
Medical office assistant technologies	5214		
Medical record technologies	5213		
Mental health aide programs	5216		
Natural science technologies, general	5401		
Newspaper communication technologies	5008		
Nuclear technologies	5316		
Nursing, practical (L.P.N. or L.V.N.)	5209		
Nursing R.N. preparation	5208		
Occupational therapy technologies	5210		
Oceanographic technologies	5406		
Ocular care technologies	5212		
Office machine repair technologies	5310		
Office machine training	5005		
Ophthalmic technologies	5212		
Optical technologies	5212		
Optometric technologies	5212		
Personal service technologies	5006		
Personnel management technologies	5004		

Appendix II CREDIT/NONCREDIT STATUS

Many users of the Program Classification Structure will want to further modify instructional offerings by describing the appropriate credit/noncredit status of those offerings. Historically, the credit/noncredit status of an offering was synonymous with the relationship of the offering to a formal degree/certificate program. However, institutions are increasingly beginning to grant "credit" for offerings—credit that is not, however, applicable toward a formal institutionally backed degree or certificate. Therefore, the entire concept of credit has become blurred and it is no longer clear when offerings are described as being "for credit" that they are also degree-related. Therefore, the PCS is making a distinction between an offering's "credit/noncredit status" and the relationship of that offering to a formal degree program. Offerings that are part of a formal degree program are almost always "for credit," but offerings "for credit" often are *not* part of a formal degree program. Therefore, to allow institutions to distinguish offerings that carry credit but that are not recognized as progress toward the completion of a formal degree or certificate, the PCS has included the two distinctions in its classification scheme.

Distinctions regarding formal degree programs may be made by classifying offerings appropriately within the subprograms of the Instruction program. Distinctions regarding credit or noncredit status can then be made independent of the relationship of the offering to a degree program. By

separating the concept of "credit" from the relationship of an instructional offering to a formal degree program, credit becomes essentially a measure of the "amount" of instruction provided. This "amount of instruction" measure can subsequently be used to measure progress towards completion of a degree program (when the degree requirements are based in part on the amount of instruction required) or it can be used by the institution to obtain financial reimbursement for the amount of instruction provided. However, the granting of credit does not signify that quality controls are being exercised. If anything can be used to signify the quality of an offering, it is not its credit status, but rather that it is part of a degree or certificate program.

In the PCS, therefore, two categories are used to describe credit/noncredit status.

1. *For credit:* those offerings for which the institution grants credit, presumably because it is necessary to maintain a record of the amount of instruction associated with those offerings. "For credit" does not imply that the credit granted is applicable toward a postsecondary degree or certificate.
2. *Not-for-credit:* those offerings for which no credit is awarded by the institution, presumably because no records are needed about the amount of instruction associated with these offerings. Certificates of completion, however, may be awarded for "not-for-credit" offerings.

Appendix III LEVEL

The term "level" is typically used in the PCS to represent two different concepts. When users are classifying instructional offerings from the "provider" perspective, they use the concept of "course level." *Course level* refers to the intended degree of complexity of the material associated with the instructional offering, the level of comprehension required of students who undertake the instructional offering, or some measure of the sequential position of the offering within a predetermined degree/diploma/certificate program. On the other hand, when users are looking at the instruction program and instructional offerings from the "clientele" perspective they employ the concept of "student level." *Student level* relates to the proportion of total requirements the student has obtained toward the completion of the degree/diploma/certificate program in which he or she is enrolled.

When the PCS is being used to classify the activities and resources associated with an instructional offering, the focus is on the provider perspective and "course level" is used as the appropriate modifier. When the PCS is being used to look at student programs (for example, in an Induced Course Load matrix analysis and its study of student programs and their relative "draw" on various disciplines or departments), the clientele perspective is used and "student level" is the appropriate modifier. The following categories and definitions associated with these two concepts should be used.

Course Level

Definition: The intended level of complexity of the material associated with an instructional offering or the level of comprehension required of the students who undertake the instructional offering. However, it is not based on the student level (that is, progress towards a degree/certificate/diploma) of the students enrolled in the instructional offering. For example, an elementary algebra course that happens to have an unusually large proportion of seniors enrolled does not become an advanced course by virtue of the student level of the participants.

Two sets of categories are recommended for use in describing course level. One set of course level categories should be used in describing those offerings that are part of a formal degree/diploma/certificate program. These programs generally consist of a series of interrelated instructional offerings all related to the attainment of a predetermined set of objectives. Course level in the context of such a defined program usually implies both its position within the program sequence and the presumed levels of prior knowledge and experience for the students enrolled in those

offerings. The second set of course level categories should be used in describing course level when the offerings are not part of a formal degree/diploma/certificate program. For these offerings, course level signifies only to the level of complexity of the material and indicates the level of competence expected of prospective students.

The following categories are recommended for those offerings that are part of a formal degree/diploma/certificate program:

- 10 *Preparatory*—refers typically to instructional offerings or substitutes thereof (such as examinations) that may be part of the curricular requirements or preparation for degree work.
- 20 *Lower Division*—refers to instructional offerings at a level of comprehension usually associated with freshman and sophomore students.
- 30 *Upper Division*—refers to instructional offerings at a level of comprehension usually associated with junior and senior students.
- 40 *Combined Upper Division and Graduate or Professional*—refers to those cases where no distinction is made between undergraduate and graduate courses.
- 50 *Graduate I courses*—this category represents instructional offerings at a level of comprehension usually associated with post baccalaureate students at the master's level or first year doctoral level.
- 60 *Graduate II courses*—this category represents instructional offerings at a level of comprehension usually associated with post baccalaureate students at the second year doctoral level.
- 70 *Doctoral Dissertation courses*—this category represents doctoral thesis instructional offerings.

The following categories are recommended for those offerings that are not part of a formal degree/diploma/certificate program:

- 91 *Basic*—refers to those instructional offerings that assume that the learner has no prior knowledge of, or experience with, what will be dealt with in the course or offering. In some instances, this level is referred to as the "apprentice" level.
- 92 *Intermediate*—refers to those instructional offerings that assume that the learner already possesses a basic level of knowledge, understanding, and skills associated with what will be dealt with in the course or offering. In some instances, this level is referred to as the "journeyman" level.

03 Advanced—refers to those instructional offerings that assume that the learner already possesses a significant level (beyond the intermediate level) of knowledge, and/or skills associated with what will be dealt with in the course or offering. In some instances, this level is referred to as the "master" level.

Student Level

Definition: Usually based on the proportion of total requirements the student has obtained toward the completion of the degree/diploma/certificate program in which he or she is enrolled, according to the number of years normally required to obtain them. As with course level, there are two sets of student level categories. One set of categories applies to those students who are participating in a formal program designed to provide the learner with a degree/diploma/certificate (other than a certificate of completion). The other set of categories (actually only one category) should be used to designate those students who are not participating in such a formal degree/diploma/certificate program and for whom the concept of "level" does not have meaning. The following categories of student level are recommended.

The categories below are recommended for degree/diploma/certificate students. These are students who have been admitted to a general or specific course of study or program at the completion of which a degree/diploma/certificate is awarded by the institution. A certificate does not signify simply the completion of the courses of study through attendance, but rather indicates the completion of an organized curriculum and the achievement of competence in that curriculum. Students who have not yet declared a major (that is, indicated the specific program they will follow) but have taken and/or are presently enrolled in courses and activities attempted and completed by degree/diploma/certificate students should be included in this category.

01 and 02 Undergraduates—students enrolled in a four- or five-year bachelor's degree program, in an associate degree program, or in a vocational or technical program that is normally terminal and results in formal recognition up to the baccalaureate. This category is broken down as follows:

01 Lower Division—includes all undergraduate students enrolled in programs leading to an associate degree (including three-year associate degree programs) or in undergraduate occupational or vocational programs of three years' duration or less; and all other undergraduate students who have earned less than 50% of the number of academic credits normally required for a

four-year bachelor's degree or 40% of the number of academic credits normally required for a five-year bachelor's degree (typically classified as freshmen or sophomores).

02 Upper Division—includes all undergraduates who are not in associate degree or occupational/vocational programs and who have completed more than 50% or a four-year, or more than 40% of a five-year, undergraduate program that terminates in a degree, usually measured by the number of credits earned as a proportion of the number of credits required for graduation.

03 First Professional—students enrolled in a professional school or program that requires at least two academic years of college work for entrance and a total of at least six years for a degree. Report only students in those first-professional degree programs in the field of medicine, law, and theology specified in the HEGIS Survey (Degrees and Other Formal Awards Conferred), Part A of EO Form 2300-2.1. Students in programs requiring only four or five years beyond high school should be reported as undergraduates.

04, 05, and 06 Graduate—students who hold a bachelor's or first professional degree, or equivalent, and are working toward a master's or doctor's degree. This category is broken down as follows:

04 Graduate I—graduate students who (a) are pursuing a master's degree, or (b) are pursuing a doctoral degree, but have not earned a master's degree and have earned fewer than the equivalent number of credits normally required for a master's degree, or (c) are pursuing an Educational Specialist certificate, degree, or coordinate intermediate level degree program, whether or not they possess an earned master's degree.

05 Graduate II—graduate students who are pursuing a doctoral (except first professional) degree program, except those who are classified as Graduate I by the definition above.

06 Other—includes medical interns and residents as well as any students not otherwise defined.

09 Nondegree/diploma/certificate students—individuals who have been admitted to a general or specific program(s) in the institution at the completion of which a degree/diploma/certificate is not awarded by the institution. These students may be enrolled in credit and/or noncredit courses. They should not be confused with students with undeclared "not designated" majors admitted to degree/diploma/certificate programs and thereby classified as degree/diploma/certificate students. Students classified as visiting, provisional, special, and so on would normally be included in this category, although their classification in the degree/diploma/certificate student category might also be appropriate.

Appendix IV DELIVERY MECHANISM

The process of delivering instruction has been defined in many ways, from the most narrow view of "the activity that takes place during school and within the classroom setting," to the broadest view of "any method of acquiring new knowledge." In using a classification of delivery mechanism in the context of the PCS, it is necessary to incorporate the full spectrum of instructional processes in order to usefully describe postsecondary education programs.

Delivery mechanism, therefore, has been broadly defined as "those methods employed in delivering educational programs to the learner." The various categories of delivery mechanism should be considered as those "type of activity" categories that are related to the instruction program and subprograms.

The NCHEMS classification of delivery mechanism set forth in this appendix is a revision of the scheme developed by Coolie Verner,* and represents the efforts of an NCHEMS advisory group representing the Coalition of Adult Education Organizations. The following categories are taken directly from the report of that NCHEMS advisory group.**

153 Distance Teaching/Independent Study

Those methods in which the learner is isolated from the learning situation by reasons of time, distance, etc. It typically involves a systematic program of study which is conducted primarily through the use of written materials (although mass media devices may also be used). There is generally limited personal contact between the teacher/agent and the learners, with most interaction taking place through written communication. The instruction tends to be individualized rather than focusing on a group of learners and normally enables students to progress at their own pace. *Examples: correspondence schools, home study*

293 Instructional Materials/Devices-Based Instruction

Those methods in which there is no direct personal contact on the part of the learner with any teacher/agent. The learner utilizes electronic, mechanical, printed, or multimedia materials/devices which have been specifically prepared to provide instruction, and the amount of interaction of any kind that takes

*Coolie Verner, *Adult Education Theory and Method: A Conceptual Scheme for the Identification and Classification of Processes* (Chicago: Adult Education Association of the USA, 1962).

**Douglas J. Collier and Clara Roberts, *A Framework and Language for Postsecondary Education* (Boulder, Colorado: National Center for Higher Education Management Systems, 1976).

place is determined by the capabilities of the materials or devices utilized. The instruction tends to be individualized rather than focusing on a group of learners and normally enables students to progress at their own pace. *Examples: computer-assisted instruction, programmed instruction, telelecture, auto-tutorials, audio-video cassettes*

149 Directed Individual Study

Those methods in which the student learns a set of skills or gains knowledge in a *one-to-one situation* from a teacher/agent. In some cases, the teacher/agent actually teaches and in other cases the learning process is facilitated by the teacher/agent through direction or supervision. This method involves direct personal contact and a high degree of interaction between the learner and the teacher. *Examples: library-directed study programs, student-centered curriculum study, private instruction (languages, piano lessons), tutorial learning*

145 Directed Experiential Learning

Those methods which provide the learner an opportunity to acquire or apply previously acquired knowledge and skills in a supervised situation that approximates or duplicates the conditions under which the knowledge/skills will be used. The instruction is typically individualized with a high degree of interaction between the student and the supervisor. *Examples: apprenticeship, on-the-job training, work experience programs, performance-based education, hospital internship, practice teaching, practicums*

081 Classroom

Those methods which utilize a sequence of learning experiences arranged in a systematic order of predetermined duration, generally structured around a limited segment of a particular body of knowledge. The teacher/agent is charged specifically with the general direction, organization, and control of the learning experience. Classroom instruction generally focuses on the instructional needs of a group rather than of individuals, and interaction is provided for between the student(s) and/or the teacher/agent.

509 Seminar/Workshop

Those methods in which the responsibility for learning is shared by the group members and the teacher/agent(s) or in which the group applies prior knowledge in addressing a problem or issue. This method generally involves a group of persons who meet, under the direction of one or more teacher/agent(s), to discuss topics of mutual interest and concern. This

method includes Discussion Groups. The duration of the activity will vary with the nature of the content and purposes of the group. *Examples: topic-related seminars, forums, task-oriented workshops*

317 Laboratory

Those methods in which knowledge is acquired and/or applied in a learning activity that is an *artificial construct* of reality. Laboratory instruction generally focuses on the group rather than individuals and allowance is made for interaction between the student and the teacher/agent. *Examples: language laboratories, art studio/laboratories, science laboratories*

025 Assembly

Those methods which involve a group of individuals too large to permit effective face-to-face interaction. Assemblies are generally specifically structured learning situations which involve a single independent or series of independent events in which there is limited participation by the learner, and the major control of the learning situation is held by the teacher/agent. *Examples: lectures, community gatherings*

345 Mass Media Instruction

Those methods in which instruction is provided for a general, nontargeted audience through mass media. Major control of the learning experience is held by the teacher/agent, and there is no interaction intended or allowed for. *Examples: educational television networks (unless part of a correspondence course), newspaper courses (unless part of a correspondence course)*

393 Nondirected Experiential Learning

Those situations in which the learner acquires knowledge or skills through *independent* experiences. There is no formal interaction between the learner and a teacher/agent, but interaction does take place between the learner and individuals encountered in the education experience, as well as between the learner and the actual surroundings (i.e., viewers of original art works in galleries and displays in museums). *Examples: cultural exchange programs, learning through independent experiences, do-it-yourself learning*

Appendix V PCS TYPE OF ACTIVITY CODES

001	Academic Administration/Governance	277	Ice Hockey
005	Academic Program Advising	281	Ice Skating
009	Agriculture and Related Industries	285	Information Dissemination/Promotion
013	Alumni and Constituency Relations	1xx	Inpatient
2xx	Ambulatory	293	Instructional Materials/Devices-Based Instruction
021	Applications	297	Interinstitutional Exchange and Loan Services
025	Assembly	301	International Extension
029	Athlete/Team Support	305	Investment Management
041	Baseball	317	Laboratory
045	Basketball	321	Lacrosse
x03	Behavioral	325	Landscape and Ground Maintenance
053	Boxing	329	Legal Services
057	Broadcast Production	341	Major Repairs and Renovation
061	Broadcast Programming	345	Mass Media Instruction
065	Broadcast Sales	349	Materials Acquisition
069	Building Maintenance	353	Materials Distribution
081	Classroom	357	Materials Identification/Access Services
085	Coaching	361	Materials Preparation
089	Communication Services	5xx	Mixed Function
093	Computer Operations/Production	369	Medical Support
097	Computer Systems Support	x02	Medical/Surgical Care
101	Conduct of Events	377	Museum Speciman Identification Services
105	Construction Planning	389	News Acquisition and Preparation
109	Course and Curriculum Planning	393	Nondirected Experiential Learning
113	Course and Curriculum Research	397	Nongovernmental Fund Solicitation
117	Cultural Events	409	Operation and Maintenance of Athletic Facilities
121	Curriculum Evaluation	3xx	Outreach
125	Custodial Services	x12	Other Type of Care
x08	Dental Care	x07	Patient Education
141	Development/Modification of Curriculum	429	Personnel Management and Support
145	Directed Experiential Learning	433	Planning and Program Development
149	Directed Individual Study	437	Procurement and Materials Handling
153	Distance Teaching/Independent Study	441	Production Operations
157	Diving	445	Production Services
169	Educational Media Research	449	Provision of Cultural and Recreational Services
4xx	Emergency	453	Provision of Facilities/Equipment
177	Executive Direction	457	Provision of Faculty/Staff Services
189	Facilities Management	x06	Public/Community Medicine
193	Faculty Recognition Programs	473	Records Maintenance and Reporting
197	Fencing	477	Recruitment
201	Financial Aid Counseling and Evaluation	x04	Rehabilitative Care
205	Financial Management and Control	485	Retail Services and Concessions
209	Financial Operations	489	Rowing
213	Food Services	493	Rugby
217	Football	497	Rural Social and Economic Development
229	General Hospital/Clinical Support	509	Seminar/Workshop
233	General Student Recreation	513	Skiing
237	Golf	517	Soccer
241	Governmental Relations	521	Specialized Services
245	Grants and Contracts Financial Management	525	Student Admissions
249	Gymnastics	529	Staff Development
261	Health and Safety Services	533	Student Career Guidance and Placement Services
265	Housing Services	537	Student Employment Services

- 541 Student Governance
- 545 Student Interest Groups
- 549 Student Personal Counseling
- x11 Supportive Care
- 561 Swimming
- 565 Systems Support
- 577 Tennis
- 581 Track and Field
- 585 Transportation Services
- 597 Urban Extension Service
- 601 User Services
- 605 Utilities
- x09 Veterinary Care
- 629 Wrestling

Appendix VI ACTIVITY LOOK-UP TABLE

Academic		Automobiles	6.3
Administration	4.6	Avocational Education	1.9
Governance	4.6	Baseball	5.2, 5.6
Personnel Development	4.8	Basketball	5.2, 5.6
Program Advising	4.6	Board of Trustees	6.1
Senate	6.1	Bobsledding	5.2, 5.6
Support	4.0	Bond Claims	6.2
Accounting	6.2	Book	
Administrative Services	6.3	Acquisition	4.1
Admissions		Binding/Repair	4.1
Graduate Office	8.1	Funds	4.1
Officers	8.1	Bookstore	5.5
Undergraduate Office	8.1	Botanical Garden	4.2, 4.5
Adult Basic Education	1.5	Bowling Alley	7.1
Advanced Placement	5.3	Boxing	5.2, 5.6
Advertising	5.6, 8.1	Broadcasting Services	3.5
Advisory Board	6.1	Budget Officer	6.2
Affirmative Action Office	6.3	Building	
Agricultural Experiment Station	2.1	Construction Planning	6.5
Agriculture Extension Program	3.4	Maintenance	6.5
Air Conditioning	6.5	Services	6.5
Airport	7.1	Bureau of Business Research	2.1
Alumni		Bursar	6.2
Awards	6.7	Buses	6.3
Clubs	6.7	Business	
Directory	6.7	Manager	6.2
Meetings/Seminars	6.7	Officer	6.2
Offices	6.7		
Programs	6.7	Campus/Institutional Roads	6.5
Records	6.8	Career	
Relations	6.7	Counseling	5.3
Reunions	6.7	Days	5.3, 8.1
Tours	6.7	Guidance	5.3
American College Testing Program	5.3	Car Pool	6.3
Analytical Studies Office	6.1	Cash Flow Management	6.2
Ancillary Support	4.5	Cashier	6.2
Appraisal/Valuation		Catalog, Institutional	8.1
Art	4.2	Center	
Books	4.1	Behavioral Science	2.1
Museums	4.2	Child Care	5.5, 6.6
Art	4.2	Computer	4.4, 6.4
Arboretum	4.2, 4.5	Conference	7.1
Archery	5.2, 5.6	Counseling	5.3
Architect		Dial Access	4.3
Campus	6.5	Federally Funded Research	7.2
Landscape	6.5	Faculty and Staff Child Care	6.6
Archives	4.1	Instructional Media	4.3
Athletic Director	5.6	Instructional Resources	4.3
Athletics		Learning Resources	4.3
Intercollegiate	5.6	Measurement and Testing	5.3
Intramural	5.2	Multimedia	4.3
Audiovisual		Opinion Research	2.1
Equipment	4.3	Public Health	3.1
Rental	4.3	Record, Film, and Video	4.3
Repairs and Maintenance	4.3	Research	2.1
Services	4.3		

Social Science Research	2.1	Courses	
Student	5.5	Professional Review	1.6
Student Child Care	5.5	Refresher	1.6
Study of Aging	2.1	Cross-Country	5.2, 5.6
Study of Democratic Institutions	2.1	Cultural Activities/Events/Groups	5.2
Telecommunication	4.3, 6.3	Curriculum	
Women's	5.2	Committee	4.7
Chairperson, Departmental	4.6	Development Research	4.7
Chancellor	6.1	Evaluations	4.7
Cheerleading Activities	5.6	Planning	4.7
Child Care Center		Custodial Service	6.5
Faculty	6.6	Data Processing, Administrative	6.4
Staff	6.6	Deaf Program Coordinator	5.1
Student	5.5	Dean	
Clinic		Academic	4.6
Dental	3.1	Continuing Education	4.6
Speech and Hearing	3.1	Evening and Summer Sessions	4.6
Veterinary	3.1	Extension	4.6
Closed Circuit TV	4.3	Men	5.1
Clubs		Student Personnel Services	5.1
Alumni	6.7	Students	5.1
Faculty	6.6	Women	5.1
Student	5.2	Debt Collection	6.2
Coaching	5.6	Demonstration School	4.5
Coal	6.5	Dental Clinic	3.1
College Level Examination Program (CLEP)	5.3	Departmental Chairpersons	4.6
College Placement Services	5.3	Development Fund	6.7
Commercial Property Rental	7.1	Dial-Access Center	4.3
Commissions, Art	4.2	Direct Patient Care	3.1
Committees		Director of Student Personnel Services	5.1
Curriculum	4.7	Disadvantaged Students Office	5.1
Universitywide	4.6	Display, Traveling (Art, Museum)	4.2
Community		Diving	5.2, 5.6
Development Programs	3.3	Dormitories	5.5
Out-Reach Health Activities	3.1	Duplicating Services	6.3
Public Relation	6.7	Education	
Relations Development	6.7	Adult Basic	1.5
Services	3.3	Avocational	1.9
Comptroller	6.2	Basic	1.5
Computing Support		Compensatory	1.4
Academic	4.4	General	1.1, 1.5
Administrative	6.4	Occupational	1.6
Concerts	3.3, 5.2	Preparatory	1.4
Conference Center	7.1	Professional/Career	1.2
Construction Inspectors	6.5	Vocational	1.3
Contracts	6.2	Electrical Plant	6.5
Cooperative Extension Service	3.4	Electricity	6.5
Coordinating Board	6.1	Emeritus, President/Vice-President	6.1
Copy Center	6.3	Endowment Management	6.2
Counseling		Environmental Health and Safety	6.3
Academic	4.6	Equal Opportunity Office	6.3
Career	5.3	Executive	
Center	3.1, 5.3	Dues	6.1
Guidance	5.3	Management	6.1
Groups/Workshops	5.3	Special Committees	6.1
Personal	5.3	Special Projects	6.1
Psychological	5.3	Exhibits	
Vocational	5.3	Art	4.2
Course and Curriculum Development	4.7		

Faculty	4.8	Governmental Relations	6.7
Library	4.1	Grants	
Museum	4.2	Accounting	6.2
Extension		Administration (Financial Aids)	8.2
Agriculture	3.4	Graduate	8.4
Dean of	4.6	Proposal Development	6.7
4-H	3.4	Undergraduate	8.3
Management Information Systems (EMIS)	3.4	Graphics, Instructional	4.3
Urban	3.4	Grounds Maintenance	6.5
Youth	3.3	Gymnastics	5.2, 5.6
External Auditor	6.2	Handball	5.2, 5.6
Facilities		Health Services	
Maintenance	6.5	Community Out-Reach Activities	3.1
Management	6.3	Faculty and Staff	5.4
Records	6.3	Public	3.1
Faculty		Student	5.4
Awards	4.8	Heating Plant	6.5
Club	6.6	High School Career Days/Nights	8.1
Housing	6.6	Hockey	5.2, 5.6
Recognition Programs	4.8	Hotel	7.1
Faculty and Staff		Housing Services	
Auxiliary Services	6.6	Faculty Staff	6.6
Child Care	6.6	Student	5.5
Development Programs	4.8, 6.3	Ice Hockey	5.2, 5.6
Food Services	6.6	Ice Skating	5.2, 5.6
Health Services	5.4	I.D. Cards	6.8
Recreation Center	6.6	Independent Operation	
Family Housing Office	5.5, 6.6	Institutional	7.1
Federal Grant Auditor	6.2	External Agencies	7.2
Federally Funded Research Center	7.2	Information Services	6.7
Fellowships	8.4	In-Service Faculty Education Programs	4.8
Fellowships Administration	8.2	Institute	
Fencing	5.2, 5.6	Behavioral Science	2.1
Financial Aids		Community Service	2.1, 3.3, 3.4
Administration	8.2	Research	2.1
Counseling	8.2	Urban Affairs	2.1, 3.3, 3.4
Grant Administration	8.2	Institutional Research	6.1
Loan Administration	8.2	Instruction	
Seminars	8.2	Academic, General	1.1, 1.5
Fire Protection	6.3	Home and Family Life	1.8
Fiscal Operations	6.2	Occupation-Related	1.6
Food Services		Personal Interest and Leisure	1.9
Faculty and Staff	6.6	Professional/Career	1.2
Student	5.5	Remedial/Preparatory	1.4
Football	5.2, 5.6	Social Roles/Interaction	1.7
Foreign Student Office	5.1	Vocational/Technical	1.3
4-H Extension	3.4	Intercollegiate Athletics	5.6
Fraternity Advisor	5.2	Intercollegiate Scholarships	8.3
Freight	6.3	Internal Auditor	6.2
Fuel	6.5	Intramural Athletics	5.2
Fund Raising	6.7	Inventory Control	6.3
Galleries	4.2	Investments	6.2
Garage	6.3	Janitor	6.5
Gas	6.5	Karate	5.2, 5.6
General Educational Development	1.5	Laboratory School	4.5
Glass-Blowing Shop	4.5	Labor Relations Office	6.3
Golf	5.2, 5.6	Lacrosse	5.2, 5.6
Governing Board	6.1		

Landscape Architect	6.5	Personnel	
Learning Resources Center	4.3	Administration	6.3
Lecture Series	3.3, 5.2	Director	6.3
Legal		Insurance	6.3
Counsel, General	6.1	Records	6.3
Services	6.1	Photo/I.D. Card	6.8
Legislative Liaison	6.1	Photo Services	6.3
Library Services		Physical Plant	
Acquisition of Books and Materials	4.1	Director	6.5
Circulation Services	4.1	Operations	6.5
Collection	4.1	Physically Handicapped Students Office	5.1
Main	4.1	Pistol	5.2, 5.6
Reference Room Services	4.1	Placement	
Resources Program	4.1	Offices	5.3
Satellite	4.1	Seminars	5.3
Traveling Exhibits	4.1	Planetarium	4.5
Loan Administration (Financial Aids)	8.2	Planning and Development Office	6.1
Logistical Services	6.3	Planning Office	6.1
Long-Range Planning	6.1	Police	6.3
		Post Office	6.3
Mail		Power Plant	6.5
Campus	6.3	President	6.1
Services	6.3	President Emeritus	6.1
Maintenance		Printing Services	6.3
Building	6.5	Prizes	8.3
Facilities	6.5	Procurement	6.3
Grounds	6.5	Professional	
Shop	6.5	Meetings	4.8
Marketing	8.1	Publishing	4.8
Married Student Housing	5.5	Review Courses	1.3
Measurement and Testing Center	5.3	Property	
Media Resources	4.3	Accounting	6.3
Medical Records	3.2	Control	6.3
Military Property Custodian	6.3	Insurance	6.3
Minority		Provost	6.1
Affairs Office	5.1	Psychological Testing/Counseling	5.3
Student Organizations	5.2	Public	
Motor Pool	6.3	Broadcasting Services	3.5
Movie/Film Equipment	4.3	Health Center	3.1
Multimedia Center	4.3	Information	6.7
Museum	4.2	Relations	6.7
Music Groups/Activities	3.3, 5.2	Service	3.0
National Testing Programs (GRE, LSAT, etc.)	5.3	Purchasing	6.3
Newspaper/Periodical Acquisition	4.1	Radio Station	3.5, 4.5, 7.1
News Service	6.7	Reading/Study Skills	1.4
Nuclear Reactor	4.5	Receiving	6.3
Oil	6.5	Recitals	4.8
Off-Campus Housing	5.5, 6.6	Record, Film, and Video Center	4.3
Ombudsman	6.3	Records	
Orientation Program	5.1	Alumni	6.8
Paddleball	5.2, 5.6	Personnel	6.3
Paint Shop	6.5	Students	6.8
Parent Activities	6.7	Recreation Center	
Parent's Confidential Statement Administration	8.2	Faculty and Staff	6.6
Parking	6.3	Students	5.2
Patent Attorney	6.1	Recreation Programs	5.2
Patient Care Services	3.1, 5.4	Recruitment	
Payroll Accounting	6.2	Athletes	5.6

Faculty and Staff	6.3	Staff	
Students	8.1	Auxiliary Services	6.6
Refresher Courses	1.3	Development Activities	4.8, 6.3
Reference Room Services, Library	4.1	Storage	6.3
Registrar	6.8	Student	
Remedial Instruction	1.4	Activities	5.2
Remodeling	6.5	Admissions	8.1
Rental (Lending) Gallery	4.2	Associations	5.2
Repairs and Renovation	6.5	Auxiliary Services	5.5
Research		Career Guidance	5.3
Centers and Institutes	2.1	Center	5.5
Curriculum	4.7	Clubs	5.2
Departmental	1.1, 2.2, 4.8	Cooperatives	5.2
Educational Media	4.3	Counseling Services	5.3, 4.6
Individual	2.2	Employment	5.3, 8.2
Institutional	6.1	Faculty Senate/Assembly	5.2
Project	2.2	Food Services	5.5
Residence Hall	5.5	Government	5.2
Restaurant	7.1	Health Services	5.4
Restoration		Housing	5.5
Art Objects	4.2	Magazines	5.2
Library Objects	4.1	Newspapers	5.2
Museum Objects	4.2	Organizations	5.2
Retirement Programs	6.3	Orientation	5.2
Retreats, Faculty	4.8	Placement	5.3
Reunions, Class	6.7	Political Groups	5.2
Rifle	5.2, 5.6	Publications	5.2
Roads, Campus/Institutional	6.5	Records	6.8
Room Scheduling	6.3	Recruitment	5.6, 8.1
Rowing	5.2, 5.6	Religious Organizations	5.2
Rugby	5.2, 5.6	Retail Services and Concessions	5.5
		Services Administration	5.1
Sabbatical Leave	4.8	Social and Cultural Development	5.2
Sailing	5.2, 5.6	Union	5.5
Sales Operations	8.1	Yearbook	5.2
Satellite		Swimming	5.2, 5.6
Computing Center	4.4, 6.4	Switchboard Operations	6.3
Computing Terminals	4.4, 6.4	Teacher Education Placement	5.3
Scholarly Faculty Activities	4.8	Teaching Hospital	3.1
Scholarships	8.3	Telecommunication Center	4.3
Scholarship Administration	8.2	Telephone Service	6.3
School Relations	6.7	Television Station	3.4, 4.5, 7.1
Security, Campus	6.3	Tennis	5.2, 5.6
Senate		Testing Service	5.3
Academic	6.1	Test-Taking Workshops	5.3
Student	5.2	Thesis and Dissertation Copying	4.1
Student-Faculty	5.2	Track and Field	5.2, 5.6
University	6.1	Traffic	
Shipping	6.3	Engineer	6.3
Skiing	5.2, 5.6	Officer	6.3
Space Allocation	6.3	Trainee Stipends	
Space and Scheduling	6.3	Graduate	8.4
Speed Reading	1.4	Undergraduate	8.3
Speech and Hearing Clinic	3.1, 5.4	Transcripts	6.8
Soccer	5.2, 5.6	Transfer Credit Evaluation	8.1
Social Science Research Center	2.1	Transfer Student Orientation Program	5.1
Softball	5.2, 5.6	Transportation, Campus	6.3
Sorority Advisor	5.2	Trap and Skeet Shooting	5.2, 5.6
Squash	5.2, 5.6	Trash Collection	6.3

Treasurer	6.2
Trucks	6.3
Trustees, Board of	6.1
Tuition/Fee Waivers	8.3
University/College Housing	5.5, 6.6
University	
Press	4.5, 6.3
Relations	6.7
Urban	
Affairs Institute	3.3
Extension	3.4
Utilities	6.5
Veterans Office	5.1
Veterinary Clinic	3.1
Vice Chancellors/Presidents/Provosts	6.1
Visiting Artist/Concert Series	3.3, 5.2
Vivarium	4.5
Vocational	
Counseling	5.3
Education	1.3, 1.6
Testing	5.3
Volleyball	5.2, 5.6
Warehouse	6.3
Watchmen	6.3
Water and Sewage	6.5
Water Polo	5.2, 5.6
Water Treatment Plant	6.5
Weight Lifting	5.2, 5.6
Women's Center	5.1
Work/Study Fund Administration	8.2
Wrestling	5.2, 5.6
Youth Extension	3.3
Zoological Gardens	4.2, 4.5

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