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ABSTRACT

This volume represents a nontechnical description of the process of developing the Student Centered Management Information System (SCMIS) for Azusa Pacific College. The SCMIS utilized student-generated input to provide information pertaining to new students, student social interests, and student academic activities. It also reports on survey results regarding such factors as campus morale, professors, resident life experiences, and religious experiences. Additionally, one subsystem models direct instructional costs such as instructors' salaries, support staff wages, departmental supplies, and equipment costs. The SCMIS is designed to operate on an IBM System/3 computer with two disk drives. (Pages 22-26 may reproduce poorly.) (Author)

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MANAGING FOR STUDENT NEEDS:

A STUDENT CENTERED MANAGEMENT INFORMATION SYSTEM

FINAL REPORT

January, 1974

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a grant from the EXXON Education Foundation
Resource Allocation Management Program

ABSTRACT

This report is one of two volumes documenting a project funded by the EXXON Education Foundation Resource Allocation Management Program. This volume presents a non-technical description of the process of developing the Student Centered Management Information System (SCMIS), what it is, what it does, and how it is used. The technical volume presents a description of system data base structure, system logic, program documentation, and sample reports.

The SCMIS utilizes student generated input to provide information pertaining to new students, student social interests, and student academic activities. It also reports on survey results regarding such factors as campus morale, professors, resident life experiences, and religious experiences. Additionally, one subsystem (RRPM/APC) is a re-programmed version of the NCHEMS product RRPM 1.6, which models direct instructional costs such as instructors' salaries, support staff wages, departmental supplies, and equipment costs.

The SCMIS is designed to operate on an IBM System/3 computer with two disk drives.

ACKNOWLEDGEMENTS

A project of this nature and magnitude is always the product of a team effort. Certainly, the EXXON Education Foundation deserves the credit for seeing the challenge and the potential of the project and for making it all possible through the awarding of the grant.

The vision and conceptualization is largely the responsibility of the Systems Analyst, Gregory Markovich. Paul McGough, Senior Programmer, with the aid of three student programmers, Robert McGough, Margie Abel, and Robert Claiborne, operationalized the concepts.

Students, faculty, staff, administrators, and board of trustee members at Azusa Pacific College deserve commendation for their complete support and encouragement. The secretary and typist who maintained minutes of countless meetings and typed and re-typed manuscripts was Janell Hope.

Genuine respect and appreciation must be accorded the consultant firm, Systems Research, Inc., and the three persons who worked with the College - James Farmer, Colby Springer, and Tallman Trask.

Finally, although other persons and organizations were involved in the project, the contents of this report are the responsibility of the author.

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I. INTRODUCTION AND PROJECT BACKGROUND

It is well recognized that colleges and universities across the nation are involved in a transitional period, brought about by reversals of upward trends in enrollment, facilities expansion, and program proliferation. Caught in the squeeze of shifting forces in these social, political, and economic environments, many institutions are searching for solutions to basic problems of survival.

Economic survival seems to come into sharpest focus on the small college campus. Frequently, larger institutions have advanced management technology supported by sophisticated computer hardware which, while not guaranteeing utopian answers, certainly does provide for wider consideration of alternatives based on objective data. Azusa Pacific College has taken a significant step toward applying advanced systems technology and simultaneously capitalizing on the strengths inherent in the nature of a small college.

The project described in this report was designed to:

1. contribute to more efficient resource management by making available computer-supported software systems which model significant institutional processes;
2. operationalize institutional commitments regarding the worth and dignity of its students - the need to hear and respond to student needs and interests;
3. demonstrate that, given minimal support, small colleges can select and utilize tools and talent to achieve significant institutional objectives; and
4. provide for the public domain an easily duplicated management system which can be implemented on a low-cost computer.

Funding for this project was provided by the EXXON Education Foundation Resource Allocation Management Program. A demonstration grant of \$48,400 was awarded Azusa Pacific College (APC) to create a Student Management Information System (SCMIS) appropriate to a small college.

Clearly, this one-year effort could not have been accomplished without this significant commitment by the Foundation.

Submission of the proposal was preceded by:

1. The creation of the Task Force on Institutional Research at APC in July, 1971. The first priorities of that group were to develop an overall Management Information System; to identify, develop and collect essential data bases; and to develop or adapt appropriate simulation models.

2. The attendance of three institutional representatives at the Western Interstate Commission on Higher Education (WICHE) meetings in Boulder and Denver, Colorado in January, 1972. It was at these workshops and forums that the possibilities and the state of the art regarding the application of Management Information Systems to small colleges was considered.

3. The implementation of the Cost Estimation Model (CEM) in the spring of 1972 gained Azusa Pacific College the distinction of being the first institution of its type and size to successfully implement the CEM. Although operational only on a rather large computer, this model did provide sound costing data on which curricular and staffing decisions could be made.

II. DEVELOPMENT OF THE SCMIS

Several themes were identified as crucial to the achievement of the project goals. Throughout the work effort, the project staff was mindful of the need to maintain a broad base of institutional involvement and commitment. From the first orientation session and through the bi-weekly progress meetings, representatives of the following departments were

actively involved: Admissions, Registrar, Student Services, Student Development, Business Office, Graduate Studies, along with special consultants from Systems Research, Inc.

An assessment of current and anticipated report needs was completed. Guidelines for report generation were established and concerns of confidentiality of data as well as control of accessibility were addressed.

A SC MIS policy/control committee was formed including five students, five faculty/staff members, and a non-voting faculty chairman. By title, the non-students were: Dean of Graduate Studies (chairman), Associate Dean of Students, Director of the Campus Center, Director of the Resource Center, Dean of Instruction, and Admissions Counselor. Student members were: Student Body President, Student Services Business Manager, Peer Counselor, Student Services Graduate Intern, and one student selected at large by the student body officers.

Considerable attention was devoted to identifying the elements of the student body data base. The creation of the data base, and to a significant extent, the development of this project was preceded by a recognized frustration on the part of those divisions of the college most directly associated with students and student services. These points of identification were:

1. The dissonance created by mismatch between student development programs and services, and the students' needs.
2. The inarticulated student opinions regarding areas of concern within the College community which were sensed yet seldom clarified.
3. The obviously existent but unclassified student interests concerning activities, programs and services.

It became apparent after much discussion between students and staff members of the Student Development Department, that the main source of this frustration was the lack of student - centered data concerning their

interests, opinions, and needs. It was further discovered that as long as programs, activities, and services continued to be built on assumed interests, opinions and needs, the College was in danger of not only wasting and misusing dollars and professional time, but making valid the complaint of irrelevant responses to the students.

Therefore, a commitment was made to attempt to construct a means of gathering relevant data so that actual existing needs of students could be met.

The Communiversity Index instrument was the first of this data collection effort. It was intended to be a very simplified and generalized tool that would identify a pattern of student interests and priorities to be used as a basis for the formation of a new student activity program called the Communiversity. The items selected for inclusion were based upon interests that had been randomly suggested by students at various times over the previous three years. They were compiled into existing form (See Appendix A) by a committee composed of the Director of Student Activities, two graduate interns of the Master of Arts in Student Developmental Services program, and the Administrative Council of the Associated Student Body (nine members, including the Student Body President). Once the instrument was composed, it was mailed to the entire student body. Response was expedited by inclusion of return postage.

For some time the individuals charged with the responsibility of administering and overseeing student life had been quite interested in documenting the feelings and opinions of students and comparing them to their own perceptions of what the students felt as well as to what the College was reporting about itself through the channels of public relations, admissions, and fund raising. These concerns, as well as the desire to

establish data for comparative reference in succeeding years, resulted in what was called the Associated Student Body (ASB) instrument.

The working committee that constructed the ASB instrument consisted of the Dean of Students, an Admissions counselor, the Director of Student Activities, and the Dean of Graduate Studies. This group, with assistance from some of the student body leaders, took on the task of selecting relevant items that would provide useful opinions, feelings, and information of the existing student body, and serve as points of comparison for future years.

Starting with a consultant-prepared "Working Document for an ASB Data File", the committee reviewed criteria for item inclusion. (The summary points are presented in Appendix B). Then using the University of California-Los Angeles Higher Education Measurement and Evaluation Kit scales, (a series of survey questions on a variety of student-related areas of concern prepared by the staff of the Higher Education Department) as the types of items that could be used, the committee began to narrow its focus to certain areas. The task became one of selecting a number of single items which were considered appropriate to Azusa Pacific. These selected items, added to ones created by the above working committee, would form the ASB survey instrument.

The areas finally decided upon were: (1) feelings about other people, (2) feelings about the future, (3) styles of learning, (4) religion, (5) campus morale, (6) geographic background, (7) professors, (8) study habits, (9) variety of instructional and learning experiences, (10) educational priorities, and (11) areas and agents of change during the college experience.

Each of the above areas was developed because of an identifiable interest on the part of the committee. In each area items were selected that were as relevant as possible to the specific student body tested. (Sample items from the ASB instrument are presented in Appendix C).

There were two main groups identified for initial response collection. First, all new students were given the opportunity to respond to the instrument, and were instructed to answer on the basis of anticipations or expectations brought to mind by the specific items (excluding the educational, family and geographic backgrounds). Since this was an identifiable group, it was intended that they be retested later so that a comparison between preconceptions and actual experience could be highlighted.

The second group tested was a random sampling of the returning students. This sampling was meant to provide not only current relevant information, but the beginning of a data base which could be used for comparison in succeeding years.

Concurrent with the efforts which identified the student body data base elements and appropriate instrumentation, a significant amount of energy was expended toward securing adequate costing information. A variety of cost predictive computer models was reviewed. The selection process was guided by the need to have a model that would:

1. Be adaptable to a small college.
2. Function on a small computer, or be reprogrammed to do so.
3. Utilize rather standard data elements, especially in financial data.
4. Be inexpensively obtained.

The Resource Requirement Prediction Model (RRPM 1.6) developed by the National Center for Higher Education Management Systems (NCHEMS) at

WICHE was selected. The College had prior experience in utilizing the Cost Estimation Model (CEM), a forerunner of RRPM 1.6. This experience proved valuable in adapting the RRPM 1.6 to a 32K System/3 computer. Additionally, consultive assistance was available from persons involved in the development and implementation of this model.

Program validation was accomplished in three stages. Basic scoring programs which create and utilize data bases derived from local forms were compared to a hand tabulated sample. Admission, registration, and student survey data were of this nature.

Reprogramming of the RRPM 1.6 (then dubbed RRPM/APC) to run on the smaller machine was validated on NCHEMS-supplied MICRO-U synthetic data and compared to identical reports run on the original version of RRPM 1.6 on a larger IBM 360/50.

Finally, localized costing data were run on RRPM 1.6 (on an IBM 360/50) and with RRPM/APC (on an IBM System/3) and the reports compared.

III. SYSTEM OVERVIEW

The Student Centered Management Information System (SCMIS) utilizes student generated input to provide management reports. It is designed to provide students, student leaders, faculty, administrators, and board of trustee members information pertaining to new students, student social interests, and student academic activities (course enrollments, etc.). It also reports survey results regarding such factors as campus morale, professors, resident life experiences, religious experiences, etc. The system assists all concerned in responding to student needs with academic, vocational, social, and experimental programs.

One subsystem, RRPM/APC, models direct instructional costs such as faculty salaries, support staff wages, departmental supplies, and equipment costs.

The SCMIS is designed to operate on an IBM System/3 computer with two disk drives. Excepting the RRPM/APC subsystem, programs are written in RPG, II and are operated on a 16K machine. RRPM/APC is programmed in ANSI-Cobol and requires a 32K storage capacity machine.

There are six subsystems, or modules, each capable of independent operation. This permits user-determined frequency of utilization of a given segment of the SCMIS.

1. Admissions-Recruiting (Computer Assisted Recruiting Efforts-CARE)

This module utilizes a file of the characteristics of prospective new students to generate statistics and rosters of new students by sex, class, and major. CARE data are used in survey data collection, in the ACT module, and as an input to the RRPM/APC and the ICM.

2. American College Testing (ACT)

This module, utilizing institutionally available reports from the ACT survey, generates statistics and rosters on "Interest Areas" and "Needs Improvement" areas. ACT interfaces with SDC for report generation. Some data is available to RRPM/APC and ICM.

3. Registration (REG)

This module utilizes student registration forms and class cards to produce over-all statistics and rosters by sex, class and major. Unit load and teaching load statistics are generated. REG interfaces with RRPM/APC and ICM.

4. Survey Data Collection (SDC)

This module accomplishes input and scoring of institutionally generated survey instruments. Accepted question forms include multiple choice, true-false, ranking 1-3, ranking 1-4, ranking 1-5, and response with satisfaction-level ranking.

It permits random retrieval of questions and retains student-response relations. The module also possesses a keyword random retrieval capability allowing the user to search survey data by interest area.

Statistical and roster reports are generated with capabilities of identifying over 1,000 combinations of student-respondent characteristics. Over 250 survey items have been adopted from previously used instruments.

This module interfaces with RRPM/APC and ICM.

5. RRPM/APC

This module calculates program cost information and implied resource requirements to undertake a given series of programs. It provides organization reports, program budget and planning reports, parameter reports, and summary reports.

Internal interface with REG permits machine calculation of the Induced Course Load Matrix (ICLM) and faculty productivity ratios based on current data. Additionally, interface with SDC is fed into the ICM for its utilization, thus saving the modularized calculations of the RRPM/APC for user manipulation on the smaller (16K) machine.

6. Institutional Cost Model (ICM)

This module accepts input from CARE, ACT, REG, SDC and RRPM/APC to provide reports of cost information on small programs, and/or projects designed in response to measured student needs. It also provides historic data on efforts to satisfy student needs.

IV. DATA PREPARATION

The SCMIS has been designed to accept two very general data input formats and two formats which are of a specified nature. Three institutional forms relating to the admission and course registration function (new student

application forms, course registration forms, and class schedules) are

the vehicles for data inputs:

- high school grade point average
- college grade point average
- church denomination
- major
- county, home residence
- age
- sex
- social security number
- course scheduled location
- course value (semester units)

Survey data instruments of two types are also of general input format. The student interests survey (called the Communiversality Index) relating to such areas as outdoor recreation, intramurals, and cultural arts, is administered on a sample basis. Normally an instrument of this nature is utilized without reference to more traditional academic terms (semester, quarter) since it is an index of student interests in activities as compared to their commitments to longer term programs.

Additionally, it is expected that these activities, developed in response to interests so expressed, will be of a short term nature. Students may express an interest in intramural sport and would participate, but not for several months nor if the activities are delayed several months after the expression of interest (survey data).

The second survey data instrument of general format is called the ASB survey and contains 121 items grouped under eleven scales plus six classifying dimensions. The six dimensions are: (1) educational level of parents; (2) the number of books in the parents' home (as an additional estimator of socioeconomic status); (3) the percentage of the student's high school class that went to college; (4) the size of the community in which the student grew up; (5) in how many different parts of the country the student has lived; and (6) the amount of time spent outside the United States.

The two sets of data collection forms that are specific in nature are the ACT data reports and the various coding forms necessary for the

RRPM/APC. ACT forms on prospective and new students supply 53 distinct items of information relating to the student, his high school record, interests and plans.

The most specific data input preparation process is related to the RRPM/APC. Since this module is a modularized reprogrammed version of the RRPM 1.6, the reader and user is referred to the NCHEMS-prepared technical documents # 39A and 39B.

V. SYSTEM REPORTS

There is extremely wide variation in the type of reports produced by the SCMIS. A group of 26 reports is classified as "Basic Recurring Reports" and is routed primarily to the Admissions, Registrar, and Student Development Offices for utilization or transmittal. Included in this category are such reports as:

- Roster of individual student applicants for admission showing current status & all basic data from application file
- Roster by major of applicants for admission
- Roster by California county of applicants
- Roster of majors for all students, by class year and sex
- Current student major roster
- General enrollment statistics
- Statistics by ethnic group/current students
- Roster of individual student academic load
- Roster of students on cumulative file, with total Cum information (GPA)
- Class rosters with/without grades

These are data required of most college operations and the reports are fairly self-explanatory.

From ACT data, the system also furnishes rosters by name, student number, and campus box number, of all students indicating special interests

or needs (i.e. "needing assistance in choosing a major" ... "needing assistance in improving mathematical skills" ... "interested in writing and publication" ... "interested in campus political groups" ...).

These reports are useful in identifying trends and in matching talents and interests.

The Commiversity Index data are supplied in two report formats. One presents a statistical summary of interest level of students interested in various categories of activities (experimental classes, outdoor recreation, intramurals, and cultural arts). Additionally, the system supplies rosters of students by interest level who indicated responses to the above categories.

The ASB survey instruments are the primary source documents for a large and flexible data base. Standard reports list by scale, the question or item, the tabulation by type of response, and where appropriate, the mean response level.

Additionally, the system possesses the capability of responding to user requests for special reports of tabulations to questions relating to key areas or questions selected randomly. The user can identify any combinations of the questions on file and query the system to learn the answer supplied by user-identified subgroups (i.e. male freshmen, or all undergraduate history majors, or seniors living in dorm X who have an auto on campus).

Detailed descriptions of the RRPM/APC reports are presented in the technical documents cited in section IV. The adaptation of RRPM 1.6 has included reprogramming the report-generating Program 6 to suppress printing of salary data and clearly related cost column data. This permits wide distribution of the 31 page reports while protecting faculty in small departments who may not want full salary disclosure.

Samples of all system reports are presented in Appendix D.

VI. IMPLICATIONS AND CONCLUSIONS

Throughout the work effort, project staff were repeatedly reminded of a concomitant value of this type of endeavor. Quite aside from the benefits inherent in the end product were the lessons and insights derived from participation in the process.

Quantifying these types of data certainly forced the institution to ask and re-ask basic questions:

- "Is this what we are really doing?"
- "Is this what we should be doing?"
- "Of what value will this information be?"
- "What are the cost/benefit implications?"

Successful completion of the project carries with it certain implications and conclusions:

1. Given minimal financial support, small colleges can assemble the necessary talent and tools to significantly contribute to the advancement of the state of the art.
2. Sophisticated computerized hardware/software systems can be effectively adapted to the needs and resources of small colleges.
3. An attitude of listening to the student can be enhanced through appropriate computerized systems.
4. The end result of this effort is the creation of a tool - not an answer.

VII. APPENDICES

- A. Communiversality Index
- B. Summary Points of Criteria for Item Inclusion
- C. Sample Items From the ASB Instrument
- D. Sample of SCMIS Reports

What our PROSPECTS are.

for the EXPERIMENTAL COLLEGE

WHICH WILL PROVIDE NON-CREDIT CLASSES IN SPECIAL INTEREST AREAS. THE CLASSES WILL BE PROVIDED AT NO EXTRA COST TO THE STUDENT, EXCEPT FOR SUPPLIES. THEY WILL BE TAUGHT BY ANY INTERESTED FACULTY, STAFF, STUDENT, OR SELECTED OUTSIDE PERSON.

- 01 Photography
- 02 Auto Tune-Up
- 03 Red Cross First Aid
- 04 International Cooking
- 06 Decoupage
- 07 Gourmet Cooking
- 08 History/Origin of APC
- 09 Minorities Study Series
- 10 Karate
- 11 Candle-Making
- 12 Christianity, Witchcraft, The Occult
- 13 Other: *(Write in suggestion on Questionnaire.)*

for CULTURAL ARTS

WHICH WOULD BRING ART EXHIBITS, MUSIC, LECTURE, AND ARTIST SERIES TO THE CAMPUS.

- 01 Art Shows, Displays
- 02 Student Talent Shows
- 03 Drama Workshop/Plays
- 04 Student Art, Photo Shows
- 05 Lecture Series
- 06 Operas
- 07 Concerts

- 08 Rock Concert
- 09 Folk Concert
- 10 Classical
- 11 Spiritual Concert
- 12 Legitimate Theater
- 13 Other: *(Write in suggestion on Questionnaire.)*

for INTRAMURALS

WHICH WOULD BE RUN BY THE COMMUNIVERSITY IN COOPERATION WITH THE ASSOCIATED STUDENT BODY.

- 01 Flag Football (Male) 10 weeks
- 02 Powder Puff Football 4 weeks
- 03 Horseshoes, M/F, doubles
- 04 Badminton, Singles/Dbls/Mixed
- 05 Chess
- 06 Volleyball 6,4,3-man, Mixed
- 07 Table Tennis, Sing/Db/Mixed
- 08 MUSHBALL, Mixed only
- 09 Billiards, Sing/Db/Mixed
- 10 Other: *(Write in suggestion on Questionnaire.)*

for OUTDOOR RECREATION

WHICH WOULD OFFER CENTRAL LEADERSHIP & ORGANIZATION FOR ALL PROGRAMS. EQUIPMENT WILL BE RENTED OUT TO THE STUDENTS FOR AN INEXPENSIVE FEE.

- 01 Horseback Riding
- 02 Bowling
- 03 Camping
- 04 Beach Trip
- 05 Deep Sea Fishing
- 06 Bike Trip
- 07 3-Day Canoe Trip, Colorado
- 08 Snow Skiing, Novices/Advanced
- 09 Backpacking
- 10 Mexico Trip — Tijuana
- 11 Disneyland/Knott's Berry Farm
- 12 Local Trout Fishing
- 13 Other: *(Write in suggestion on Questionnaire.)*

QUESTIONNAIRE!!

By completing this questionnaire, you will assist the COMMUNIVERSITY STAFF in developing the MOST SATISFYING COLLEGE EXPERIENCE FOR YOU. Please record your responses by tearing off the mail back card and marking your responses.

Please indicate your level of participation for each area by using this scale.

- 5 strongly interested
- 4 interested
- 3 undecided
- 2 disinterested
- 1 strongly disinterested

EXPERIMENTAL COLLEGE CLASSES

- ___ 01 ___ 02 ___ 03 ___ 04
- ___ 05 ___ 06 ___ 07 ___ 08
- ___ 09 ___ 10 ___ 11 ___ 12
- ___ 13

CULTURAL ARTS

- ___ 01 ___ 02 ___ 03 ___ 04
- ___ 05 ___ 06 ___ 07 ___ 08
- ___ 09 ___ 10 ___ 11 ___ 12
- ___ 13

INTRAMURALS

- ___ 01 ___ 02 ___ 03 ___ 04
- ___ 05 ___ 06 ___ 07 ___ 08
- ___ 09

OUTDOOR RECREATION

- ___ 01 ___ 02 ___ 03 ___ 04
- ___ 05 ___ 06 ___ 07 ___ 08
- ___ 09 ___ 10 ___ 11 ___ 12
- ___ 13

NAME: _____
 ON CAMPUS OFF CAMPUS
 LIVING AREA: _____
 APC BOX NUMBER: _____
 SOCIAL SECURITY NUMBER: _____
 MALE FEMALE
 FRESHMAN SOPHOMORE
 JUNIOR SENIOR GRAD. STUDENT

SEND ANSWER

TODAY

APPENDIX B

CRITERIA FOR ITEM INCLUSION

There are essentially six criteria relevant to the decision to include an item in the ASB data bank. Each potential item, as it is considered for inclusion, should be analyzed along these parameters:

1. FREQUENCY

Can the item be administered to a student once, and then be assumed as constant over time, or must the item be repeated?

Is the item of interest in a longitudinal study framework, to map changes in students over time?

If either of these conditions apply, how often must the item be administered to be of value and validity?

2. SCALE SCORING REQUIREMENTS

Is the individual item a member of a cohesive scale, or does it stand alone?

Is the cost savings resultant from smaller storage requirements for aggregated scales enough to offset the necessity of continuing the item over time in an effort to maintain the integrity of the scale?

(For purposes of data manipulation, it is probably easier to work with scale scores. But aggregation may entice the institution to give up important data which may be contained only in a single item. It is perhaps preferable to initially store data on a single item basis, until statistical evidence documents that little is lost by inclusion of an item into scale scoring.)

3. COMPARABILITY/COMPARISON

Is national test data available on the item to provide comparative norms, or must such norms be self-generated through repeated administration of the item on-site?

Is the comparative data updated annually, or is it based in a single historical testing?

Is national data aggregated in a format which allows identification of colleges and students which can be reasonably compared on other dimensions to Azusa Pacific?

4. SAMPLE SIZE METHODOLOGY

Must the item be asked of all students (once or repeatedly), or is it a representation of general campus sentiment, which can be drawn from a well chosen sample?

How large must the sample be to be reliable, and to insure that the item is not measuring only the feelings of a unique sub-group of students?

5. OPERATIONALITY

Does the item represent a particular fact to which the institution can respond, or does it only provide "general feelings," which cannot be affected by an institutional action?

Is it likely that the college can modify item responses by undertaking some particular effort?

6. COST

Does the item require any monetary expense in its acquisition and collection, and if so, how much?

Is the cost borne by individual students (as are ACT tests), or by the institution?

Is the expense incurred once, when the instrument is acquired, or does it recur each time the item is used?

Is the institution willing to commit the resources necessary to obtain data from this item over a period of years?

The summary judgment about an item, which must be made before it is inserted into the data bank, is whether or not the value of a piece of information exceeds the cost of the effort required to obtain (and maintain) it. If so, the item has operational utility, and should be included in the data collection. If not, it should be omitted.

It should be admitted here that it will be impossible to establish objective answers on many of the suggested data items, as they relate to the six parameters; a number of value judgments will be required. Within the constraints imposed by these criteria, the college staff will have to decide if it is willing to commit and expend the resources necessary to collect particular information. Many of these judgments will be complicated by the ability of the data processing system to store and retrieve information, and that may become the deciding factor in the case of several items.

APPENDIX C

NAME _____ Social Security No. _____

FEELINGS ABOUT OTHER PEOPLE

Directions: We all have different preferences and personal characteristics. Beside each item, on the right, please indicate how characteristic the statement is of you. (Response key: VM = very much; QB = quite a bit; S = some; NA = not at all).

	VM	QB	S	NA
1. I find it hard to talk with people who hold opinions quite different from my own.	—	—	—	—
2. I find it exciting to meet people quite different from myself.	—	—	—	—
3. I can become so absorbed in the work I'm doing that it doesn't bother me not to have any intimate friends.	—	—	—	—
4. I have found that people have to be pretty much like me if we are going to strike up a friendship.	—	—	—	—
5. There are few times when I compliment people for their talents or jobs they've done.	—	—	—	—
6. I try to get people to do what I want them to do, in one way or another.	—	—	—	—
7. There's no sense in compromising. When people have values I don't like, I just don't care to have much to do with them.	—	—	—	—
8. I enjoy doing little favors for people even if I don't know them well.	—	—	—	—
9. I enjoy myself most when I'm alone, away from other people.	—	—	—	—
10. I can be friendly with people who do things of which I don't approve.	—	—	—	—

RELIGION

Directions: On a 5-point scale mark your degree of agreement or disagreement with the statements listed below.

Agree Disagree

5 4 3 2 1

- | | | | | | |
|---|---|---|---|---|--|
| — | — | — | — | — | 1. I believe that there is a life after death. |
| — | — | — | — | — | 2. I believe that there is a Divine plan and purpose for every living person. |
| — | — | — | — | — | 3. There is a Divine God, Creator of the Universe, Who knows everyone's innermost thoughts and feelings, and to Whom we are all accountable. |
| — | — | — | — | — | 4. One should not compromise his beliefs with those whose beliefs are different from theirs. |
| — | — | — | — | — | 5. I know God really exists and I have no doubts about it. |
| — | — | — | — | — | 6. Jesus Christ is the Son of God and I have no doubts about it. |
| — | — | — | — | — | 7. It cannot be known for sure whether or not there is a God. |
| — | — | — | — | — | 8. God only exists in certain people's minds. |
| — | — | — | — | — | 9. A person can have high morals and a sound, acceptable philosophy of life without a religious commitment of some kind. |
| — | — | — | — | — | 10. It doesn't matter to me what church a person belongs to. |
| — | — | — | — | — | 11. I frequently have serious doubts about my religious beliefs. |
| — | — | — | — | — | 12. I believe in the worth of humanity but not in God. |
| — | — | — | — | — | 13. Prayer is an important part of my life. |
| — | — | — | — | — | 14. I have had an experience when I felt the presence of God. |
| — | — | — | — | — | 15. In religious matters I believe I would have to be called a skeptic or an agnostic. |
| — | — | — | — | — | 16. I am confident that I will retain my present religious faith and attitudes. |

VARIETY OF INSTRUCTIONAL AND LEARNING EXPERIENCES

Directions: For each of the following instructional or learning experiences, please indicate, by placing a check (X) in the appropriate column, (a) if you have had the experience, (b) if you have not but would like - or not like - to have the experience, and (c) if you have had the experience, the degree to which it was satisfying to you, using the key on the left.

Key: HS = highly satisfied
S = satisfied
N = neutral
D = dissatisfied
HD = highly dissatisfied

HAVE HAD THIS EXPERIENCE	WOULD LIKE TO HAVE THIS EXPERIENCE		DEGREE OF SATISFACTION				
	Yes	Yes	No	HS	S	N	D

1. Small class with instructor-led discussions	_____	_____	_____	_____	_____	_____	_____	_____
2. Large lecture classes	_____	_____	_____	_____	_____	_____	_____	_____
3. Lecture class with scheduled discussions sections	_____	_____	_____	_____	_____	_____	_____	_____
4. Video-taped lectures	_____	_____	_____	_____	_____	_____	_____	_____
5. Team teaching - two or more instructors teaching a course	_____	_____	_____	_____	_____	_____	_____	_____
6. Group projects, as part of course work	_____	_____	_____	_____	_____	_____	_____	_____
7. Individual research, as part of course work	_____	_____	_____	_____	_____	_____	_____	_____
8. Group research, as part of course work	_____	_____	_____	_____	_____	_____	_____	_____
9. Student-led discussion groups	_____	_____	_____	_____	_____	_____	_____	_____
10. Courses involving community experiences	_____	_____	_____	_____	_____	_____	_____	_____
11. Part or all of the course work conducted off-campus	_____	_____	_____	_____	_____	_____	_____	_____
12. Interdepartmental course (course involving instructors or materials from more than one department)	_____	_____	_____	_____	_____	_____	_____	_____
13. A laboratory course	_____	_____	_____	_____	_____	_____	_____	_____
14. Independent study	_____	_____	_____	_____	_____	_____	_____	_____

STUDENTS WITH OUTSTANDING ACCOMPLISHMENTS AND ADVANCED PLACEMENT INTEREST - ACT 138 STUDENTS ON FILE

NUMBER OF STUDENTS

OUTSTANDING ACCOMPLISHMENTS IN LEADERSHIP 48

OUTSTANDING ACCOMPLISHMENTS IN MUSIC 82

OUTSTANDING ACCOMPLISHMENTS IN SPEECH 35

OUTSTANDING ACCOMPLISHMENTS IN ART 47

OUTSTANDING ACCOMPLISHMENTS IN WRITING 79

OUTSTANDING ACCOMPLISHMENTS IN SCIENCE 30

OUTSTANDING ACCOMPLISHMENTS IN ATHLETICS 52

INTERESTED IN FRESHMAN HONORS PROGRAMS 49

INTERESTED IN ADVANCED PLACEMENT IN ENGLISH 41

INTERESTED IN ADVANCED PLACEMENT IN MATH 5

INTERESTED IN ADVANCED PLACEMENT IN FOREIGN LANG 10

ERIC

10/17/73

A Z U S A P A C I F I C C O L L E G E

STUDENT CENTER MANAGERMENT INFORMATION SYSTEM

STUDENTS INTERESTED IN EXTRA-CURRICULAR ACTIVITIES - ACT
138 STUDENTS UN FILE

NUMBER INTERESTED

INTERESTED IN INSTRUMENTAL MUSIC 55

INTERESTED IN VOCAL MUSIC 76

INTERESTED IN WRITING AND PUBLICATIONS 33

INTERESTED IN STUDENT GOVERNMENT 43

INTERESTED IN DEBATES 11

INTERESTED IN CAMPUS RELIGIOUS GROUPS 123

INTERESTED IN CAMPUS PULITICAL GROUPS 14

	YES	NO	
1. I PARTICIPATED IN A CLASS DISCUSSION.	57	31	64.77
2. I HAD A CONVERSATION, LASTING A HALF-HOUR OR LONGER, WITH ONE OR MORE OF MY PROFESSORS.	21	67	23.86
3. I DISCUSSED WITH OTHER STUDENTS FOR AN HOUR OR LONGER THE SUBJECT-MATTER OF ONE OR MORE OF MY COURSES.	32	44	42.11
4. I SPENT AN UNINTERRUPTED 3 HOURS OR LONGER STUDYING FOR ONE OF MY COURSES.	25	51	32.89
5. I STUDIED AT LEAST FOUR HOURS OR LONGER DURING THE WEEKEND.	38	38	50.00
6. I READ A BOOK RELATED TO ONE OF MY COURSES BUT THAT WAS NOT AN ASSIGNED READING FOR THE COURSE.	20	56	26.32
7. I SPENT FIVE OR MORE HOURS WRITING PAPERS.	16	60	21.05
8. I SPENT SOME TIME JUST BROWSING IN THE LIBRARY OR BOOKSTORE.	57	19	75.00
9. I PARTICIPATED IN A RESEARCH PROJECT.	25	51	32.89
10. I SPENT FIVE HOURS OR MORE LOOKING UP REFERENCES IN THE LIBRARY AND TAKING NOTES.	13	63	17.11

STUDENT OBSERVATIONS OF PROFESSORS AND CLASS MANAGEMENT - ASK
96 STUDENTS ON FILE

	T	F	
1. MOST OF THE PROFESSORS ARE DEDICATED SCHOLARS IN THEIR FIELDS.	70	12	65.37
2. COURSES, EXAMINATIONS, AND READINGS ARE FREQUENTLY REVISED.	52	17	75.36
3. PERSONALITY, PULL, AND BLUFF GET STUDENTS THROUGH MANY COURSES.	32	37	46.38
4. MOST OF THE PROFESSORS ARE VERY THROUGH TEACHERS AND REALLY PROBE INTO THE FUNDAMENTALS OF THEIR SUBJECTS.	61	8	88.41
5. FACULTY MEMBERS RARELY OR NEVER CALL STUDENTS BY THEIR FIRST NAMES.	4	68	2.86
6. INSTRUCTORS CLEARLY EXPLAIN THE GOALS AND PURPOSES OF THEIR COURSES.	66	4	94.29
7. STANDARDS SET BY THE PROFESSORS ARE NOT PARTICULARLY HARD TO ACHIEVE.	49	21	70.00
8. STUDENTS ALMOST ALWAYS WAIT TO BE CALLED ON BEFORE SPEAKING IN CLASS.	24	47	33.80
9. CLASS DISCUSSIONS ARE TYPICALLY VIGOROUS AND INTENSE.	41	28	59.42



239 STUDENTS ON FILE ROLE OF INDIVIDUAL IN DECIDING WHAT WILL HAPPEN - 239
1 - AT ALL 2 - MODERATELY SURE 3 - VERY SURE

MEAN RESPON

Statement	1	2	3	Mean
A. I HAVE OFTEN FOUND THAT WHAT IS GOING TO HAPPEN WILL HAPPEN.	21	70	69	2.17
B. TRUSTING TO FATE HAS NEVER TURNED OUT AS WELL FOR ME AS MAKING A DECISION TO TAKE A DEFINITE COURSE OF ACTION.	16	32	72	2.31
A. WHAT HAPPENS TO ME IS MY OWN DOING.	36	77	62	2.09
B. SOMETIMES I FEEL THAT I DON'T HAVE ENOUGH CONTROL OVER THE DIRECTION MY LIFE IS TAKING.	40	57	34	1.95
A. WHEN I MAKE PLANS, I AM ALMOST CERTAIN THAT I CAN MAKE THEM WORK.	25	94	58	2.18
B. IT'S NOT ALWAYS WISE TO PLAN TOO FAR AHEAD BECAUSE MANY THINGS ARE DEPENDENT UPON GOOD OR BAD FORTUNES ANYHOW.	32	52	46	2.12
A. IN MY CASE, GETTING WHAT I WANT HAS LITTLE OR NOTHING TO DO WITH LUCK.	24	69	117	2.44
B. MANY TIMES WE MIGHT JUST AS WELL DECIDE WHAT TO DO BY FLIPPING A COIN.	72	72	4	1.30
A. MANY TIMES I FEEL THAT I HAVE LITTLE INFLUENCE OVER THE THINGS THAT HAPPEN TO ME.	41	62	24	1.85
B. IT IS IMPOSSIBLE FOR ME TO BELIEVE THAT CHANGE OR LUCK PLAY AN IMPORTANT ROLE IN MY LIFE.	22	56	109	2.45