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**A conceptual design of a catalogue subsystem for a student advisory system**

Claudette Captoria Browder Watson

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C.1

A CONCEPTUAL DESIGN OF A  
CATALOGUE SUBSYSTEM  
FOR A STUDENT ADVISORY SYSTEM

Submitted to the Graduate Faculty  
Of the Computer Science Department  
Southern University, Baton Rouge

In Partial Fulfillment of the Requirements  
for the Degree of Master Of Science

in  
Computer Science

by  
Claudette Captoria Browder Watson

July 1988

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## ACKNOWLEDGMENT

I would like to take this opportunity to express my gratitude and thanks to the students, faculty, and staff at Southern University, who offered assistance upon request and words of encouragement when ever needed. Thank you Mr. Shanklin, Mr. Sylvester, Mr. Pickens, Mrs Akpan, Mr. Zandi-Bami, Dr. Hubbel, Mrs. Johnson, Mrs. Fazer, Mrs. Chaney, Ms. Bethly, and Ms. Allen.

In particular the author wishes to extend sincere thanks and appreciation to Mr. James Ambroise Jr. for his assistance, reassurance, advice, and guidance through the completion of my academic course of study at Southern University. Your contribution made my sojourn here a success. Sincere thanks is also extended to Mr. Alonzo Johnson and Mrs. Beulah Clark for going beyond the call of duty in contributing time and effort to make my project such a success. My appreciation is also extended to members of my project committee Dr. Leroy Roquemore, Mr. James Ambroise Jr., Mrs. Beulah Clark, and Mr. Alonzo Johnson for their input and recommendations in the review and editing of this document.

Most of all I would like to thank my husband Dunbar Watson Jr., mother Everlene Browder, and sister Teresa Browder for being there to listen to my problems, be my stanches supporters, and give insight and encouragement when needed. This degree belongs to you as well as to me.

Last but not least thank you Freda and Maryilyn, Mr. & Mrs. Chamblis, Mr. & Mrs Knighton for lending a compassionate ear. But most of all I give praise to God who made this accomplishment possible.

## I. INTRODUCTION

At Southern University, students are assigned to faculty advisors with responsibilities for guiding the student in selecting courses to complete the requirements for a selected degree. Large departments with dynamic curricula changes encounter problems in ensuring that all students are properly advised in their respective degree programs. Specific problems encountered are:

- students were found to be taking courses without having taken prerequisites courses, this action often resulted in failing grades;
- students were found to be taking courses that would not be accepted for degree credit in their degree program;
- students were expecting to graduate but were found to not have completed all of the course work required for the degree program;



- faculty advisors encountered difficulty in retaining all of the degree requirements for the various programs for accurate student advisement;
  
- in large departments, adequate time for student advisement could not be reasonably given due to the inadequate number of qualified faculty advisors available for the large number of students.

In an effort to address the advisement problem, an ad hoc University committee was named to study the problem and the findings and suggestions for enhancement were reported to the University administration.

The Computer Science Department faculty wrote a proposal for an On-line Computerized Academic Advisement System (CAAS) to address these problems which was funded by the U.S. Department of Education. The designer of this project served as a team member on the CAAS project and participated in the feasibility

study and systems analysis phases of the project where the need for a catalogue subsystem was demonstrated and functional specifications for that subsystem were formulated.

#### 1.1 STATEMENT OF THE PROBLEM

The academic advisement system project at Southern University is being designed to provide an on-line computerized academic advisement system environment for the academic community at Southern University. The project is funded under a U.S. Department of Education grant and the objectives of the CAAS project are as follows:

- to provide the academic community at Southern University with a computerized academic advisement system.
  
- to implement a computerized academic advisement system on the University's main frame;

- to provide students and faculty with an environment from which to monitor the student progress towards successful completion of his/her academic studies;
- to provide the student and his/her advisor with an environment capable of determining what courses are needed to satisfy the graduation requirements for the degree being pursued by the student;
- to provide the Junior Division at Southern with the capability to determine a student's remedial course work requirements prior to the student's enrolling in content level course work defined by departmental requirements;
- to identify all prerequisite and corequisite courses for courses in the catalog data base;
- to recommend courses that a student can enroll in for a semester based on the student's previous course work and the student's degree program;

- to provide the student and his/her advisor with an environment that determines the impact of a program of study change prior to an official degree change on the part of the student.

Benefits of the on-line computerized academic advisement system to the academic community at Southern are as follows:

- Improvement in the accuracy of the student advisement program at Southern University.
- Improvement in the morale of the students and advisors relating to Southern University's academic advisement procedures.
- Capability to browse a students academic record on-line to monitor the students' progress towards completing the requirements for a degree.
- Better graduation check out procedures for students.

The conceptual design for CAAS includes a Catalogue subsystem which contains a description of all courses offered at the University. Various subsystems of CAAS will interface with the Catalogue Subsystem.

## 1.2 OBJECTIVE OF THE PROJECT

The objective of this project is to design a Catalogue Subsystem for CAAS at Southern University. The Catalogue Subsystem will maintain information on all courses offered at Southern University.

The subsystem will interface with the Reservation Subsystem, the Curriculum Subsystem, the Student History Subsystem, and the Schedule Subsystem in CAAS

Academicians and students at the university will be provided with the capability to:

- review previous catalogues up to and including five years from the current catalogue;
- determine the last time that a course was offered by a department;

- review the number of times courses have been revised by departments via the version control capabilities of the Catalogue Subsystem;
  
- research departmental curricula relating to the impact of Board of Regents requirements, University requirements, departmental requirements and accreditation boards requirements on the evolution of departmental curricula at the university.

## II. PROJECT METHODOLOGY

The following activities were performed to derive the architecture of the catalogue subsystem:

- feasibility Study
- document Review
- interviews.

The feasibility study, the document reviews, and interviews played an integral part in establishing the goals and objectives of the project. The feasibility study established the purpose and scope of the project. The document review and interviews were information gathering mechanisms which primarily center around building and understanding the nature of the problem to be solved.

## 2.1 FEASIBILITY STUDY

The designer participated in the feasibility study activities for the on-line Computerized Academic Advisement System project at Southern University. Information gathered from these activities allowed the designer to assist in the formulation of the CAAS architecture which included the Catalogue Subsystem.

The project milestones required the designer and the project team to complete the following activities to derive the Catalogue Subsystem architecture:

- survey the academic users at Southern to establish the functional requirements for CAAS;
  
- perform literature searches for information relating to academic advisement systems implemented at other universities and colleges;



- interview officials responsible for editing and publishing the catalogue at Southern University;
- review departmental advisement systems at Southern University;
- visit universities/colleges with on-line academic advisement systems;
- conduct an advisement seminar/workshop for for academicians at Southern University.

### 2.1.1 ACADEMIC USER SURVEY

The project team surveyed deans and departmental chairpersons at the University to determine the functional requirements for CAAS. As a result of the survey, project team members identified problems relating to the advisement environment at the University and non-advisement problems which could have an impact on the CAAS development.

The project team presented the results of the survey to the On-line Academic Computerized Advisement Project Steering Committee. The steering committee reviewed the results of the survey and recommended future directions for the project team to consider relative to formulating the functional requirements for CAAS. The survey also provided the project team with ideas to consider in formulating the Catalogue Subsystem architecture.

### 2.1.2 LITERATURE SEARCH

The project team conducted an extensive literature search to identify universities and colleges with computerized academic advisement systems in place or in the process of being implemented.

Information gathered from the literature search was used by the Catalogue Subsystem designer in formulating specifications for the Catalogue Subsystem architecture.

### 2.1.3 INTERVIEWS WITH UNIVERSITY OFFICIALS

The designer of the Catalogue Subsystem conducted interviews with University officials responsible for publishing the Southern University catalogue. These interviews assisted in determining the functional requirements for the Catalogue Subsystem. Similar interviews were conducted by the project team with other University officials relative to CAAS functional requirements.

#### 2.1.4 DEPARTMENTAL ADVISEMENT REVIEWS

The designer reviewed the computerized academic advisement system in the departments of Computer Science, Psychology, and Engineering.

#### 2.1.5 VISIT TO OTHER UNIVERSITIES/COLLEGES

The project team identified a school to visit that had a computerized academic advisement system. The school was selected as a result of the literature searches conducted by the project team.

Two project team members, Professor Alonzo Johnson and James Ambroise, visited the Borough of Manhattan Community College (BMCC) in New York to review it's it's computerized academic advisement system. After reviewing the BMCC system the project team was convinced that the project was feasible and that the initial conceptual views of the system architecture were sound.

#### 2.1.6 ADVISEMENT SEMINAR/WORKSHOP

Ronald Spalter, Dean of Administration and Planning, and Ethenn Kok, Director of Information Systems, of Borough of Manhattan College, conducted a two day seminar for University officials to review BMCC's on-line advisement system. The seminar was successful in that the project team gained useful information to formulate CAAS functional requirements.

## 2.2 SYSTEM ANALYSIS

The system analysis phase of the project required the developer to review the following:

- the existing system;
- the system requirements;
- CAAS.

### 2.2.1 EXISTING SYSTEM

Southern University does not have an on-line environment that allows faculty members to browse the university catalogue on the university's main frame computer. Furthermore, no on-line academic advisement system is presently available to all faculty members at the university to assist in advising students. Several departments at the University have implemented independent academic advisement systems on various computers representing, a variety of software with no connectivity to the university's main computer.

The following procedure is used to maintain the university catalogue:

- each college and department is provided with a hard copy of the current curriculum and course descriptions with a final date to return the edited documents, this information is sent to all colleges and departments by the Office of Academic Affairs;
  
- the Office of Academic Affairs prepares an official copy of the University catalogue using the DisplayWriter word processing software on an IBM PC;
  
- official copies of the catalogue are distributed to University officials and students and others interested in reviewing the academic requirements at Southern University.

Although the catalogue is only published biannually changes and corrections are an on going process.

### 2.2.2 SYSTEM REQUIREMENTS

The results of the feasibility study were used by the project team in formulating the functional requirements for CAAS. These functional requirements and interviews with representatives from Borough of Manhattan Community College were of significance to the designer of the catalogue subsystem in formulating the Catalogue Subsystem functional requirements.

The functional requirements for CAAS are as follows:

- to provide Junior Division with the capability to monitor and track the matriculation of students;
- to provide the University with statistics on student performance on standardized tests (NTE, GRE, TOEFL, SAT, ACT, etc.);



- to provide academic advisors with the capability to review student transcripts on-line;
- to provide the capability to generate built-in and ad hoc reports on the University, college and departmental levels;
- to provide the University with an on-line preregistration system;
- to provide the capability to generate the academic semester schedule;
- to provide the University with the capability to optimize space utilization.

The academic advisement system functional requirements were used in formulating the following requirements for the Catalogue Subsystem:

- the Catalogue Subsystem must maintain course information data in the catalog database;

- the Catalogue Subsystem must provide on-line capability to maintain the catalog database.
- the Catalogue Subsystem must provide the capability to determine the number of times that a course description changes for a specified course;
- the Catalogue Subsystem catalog database must provide the capability to determine the last time a specified course was scheduled;
- the Catalogue Subsystem catalog database must contain a mechanism for correlating the formal course name with the abbreviated course name published in the semester schedule.

### 2.2.3 ON-LINE ACADEMIC ADVISEMENT SYSTEM ARCHITECTURE

The Southern University Interactive On-line Academic Advisement System is to be composed of five different subsystems. The data flow of the five subsystems are displayed in the appendix. These subsystems will perform the following functions.

### 2.2.3.1 Catalogue Subsystem

The Catalogue Subsystem is to be automated listing of all courses offered at the University. The system will provide the user with the following information:

- college
- department
- course title
- a abbreviated course title for use in the semester
- course descriptions
- prerequisites/corequisites
- credit hours
- last semester offered.

### 2.2.3.2 CURRICULUM SUBSYSTEM

The Curriculum Subsystem is to be a database containing the requirements for completion of all academic degree programs offered by the University.

### III. CATALOGUE SUBSYSTEM ARCHITECTURE

The Catalogue Subsystem is to be an on-line mechanism allowing the user to maintain information on courses offered at Southern University in a catalog database. There will be two major components of this subsystem, namely the Catalog and Version components. These components will interface with the Curriculum, Scheduling, Student History, and Reservation subsystem and will also allow the Catalogue Subsystem to satisfy CAAS functional requirements relating to processing information from the University Catalogue.

#### 3.1 CATALOG COMPONENT

Most catalogue information remains static from each year of publication to the next. The primary objective of the catalog component will be to provide the user with a mechanism of duplicating catalogue information without manually retyping course information. With this objective in mind the file layout of the catalog database was established.

The catalog database is comprised of course numbers of various courses offered in the different colleges/ departments at Southern University. The catalog component will contain the following information:

- college
- department
- course number
- version number
- last semester offered
- code.

College, department, course number, and last semester offered are fields in the database where users input information. The names of the various colleges, departments, and course numbers are not entered into the database. Each one of these fields is assigned codes (codes for college, department, and course number are predetermine by the project team) which are entered into the database. Codes for the fields are used in order to decrease the space utilization of the records in the database. The last semester offered field is a four character field which will contain information on the semester and year a course was last offered.

Version number and code, unlike the college, department, and course number fields, are system generated fields. The version number is a counter which establishes when a particular course was last modified. The code field however consists of a concatenated key comprised of the following fields:

- college
- department
- course number.

The code field in the catalog database will index course descriptions in the version database.

## 1-2 VERSION COMPONENT

The Version Database will provide the user the capability to enter in course information. The database will consist of the following data:

- code
- course name
- schedule name

- credits
- description
- requisite
- college field
- department field.

As mentioned earlier the code field serves as an index from the catalog component to the version component. The version architecture is important because if catalogue information remains unchanged from one catalog to the next 22 bytes in the system will be changed per course entry, versus 474 bytes per course entry in a nonversion architecture. This particular architecture offers the user a savings of a ratio of 1:20 for each static course in the catalogue.

The requisite field in the version database gives the user the option to determine if a course is a prerequisite or corequisite course by entering the letter "P" or "C". All other fields in this data base are text input fields.

## IV. SYSTEM DESIGN

The following features were considered in designing the system:

- database requirements
- data validation requirements
- human factors requirements
- hardware requirements
- software requirements.

### 4.1 DATABASE REQUIREMENTS

The Catalog and Version databases will be needed to support the functional requirements. The system databases will be normalized and will support database concepts as well as ad hoc reporting capabilities.

#### 4.1.1 CATALOG DATABASE

The catalog database will provide the user with the capability to enter course information for a given catalogue year. The database will contain the following fields:



- college
- department
- course number
- version number
- code.

Records in the catalog database will serve as keys that will index information in the catalog database. Primary keys will consist of the following fields:

- college
- department
- course number
- and code.

The system's data entry activities/routine will validate the data prior to storing the information in the database.

#### 4.1.2 VERSION DATABASE

The version database will provide the user with the capability to enter course information. The database will maintain the following course information:

- code
- course name
- schedule name
- credits
- description
- requisite
- college field
- department field.

The primary keys for the version database will consist of the following fields:

- code
- requisite.

The system's data entry activities/routines will validate the data prior to storing the information in the databases.

#### 4.2 DATA VALIDATION REQUIREMENTS

The system will validate information before storing data into the databases. Field formats will be

comprised of alphanumeric as well as integer data and each field is checked for consistency of format. All will fields have values so blank fields are considered invalid data. Validation requirements will be performed to ensure file integrity.

#### 4.3 HUMAN FACTORS REQUIREMENTS

The Catalogue Subsystem will be supported by user friendly menus and data entry screens. The screens will provide the user with a user friendly interactive environment to migrate through the system's subsystems.

#### 4.4 HARDWARE AND SOFTWARE REQUIREMENTS

The hardware and software requirements are discussed in the following sections.

##### 4.4.1 HARDWARE REQUIREMENTS

Hardware requirements for implementing CAAS and the Catalog Subsystem are as follows:

- the university's IBM 4381
- appropriate terminals/Pc's needed to connect to the proposed campus network system.

#### 4.4.2 SOFTWARE REQUIREMENTS

The software needed for the project are as follows:

- communication/emulation package;
- database management system (to be determine at a later date);
- Customer Information Control System.

### III. CONCLUSIONS AND RECOMMENDATIONS

Through implementation of the Catalogue Subsystem in the academic advisory system the following benefits will result:

- a user friendly system will exist where the user will be guided and prompted for necessary information when performing operations on the system;
- catalogue information can be accessed quickly;
- back issues of Southern's catalogues can remain on-line and memory resident;
- an accurate measurement of a course's viability can be measured using the version control mechanism.

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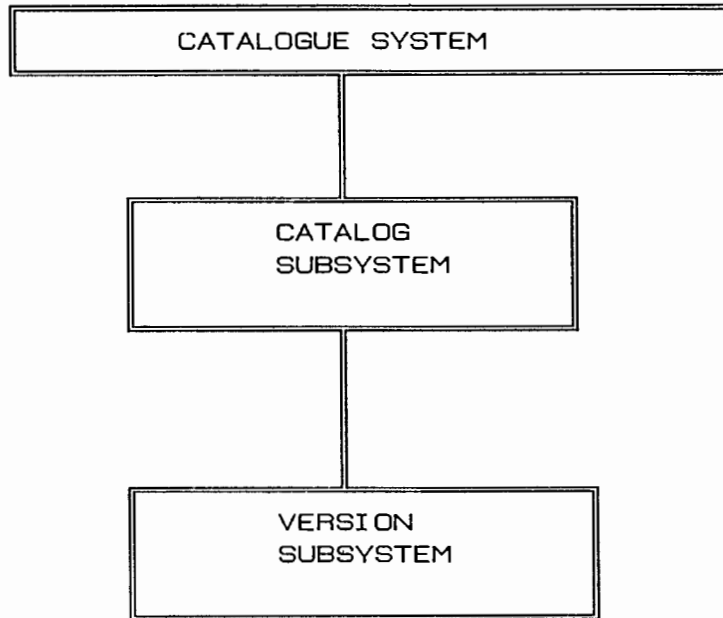
APPENDIX A

SYSTEM CONCEPTUAL DESIGN

A-1

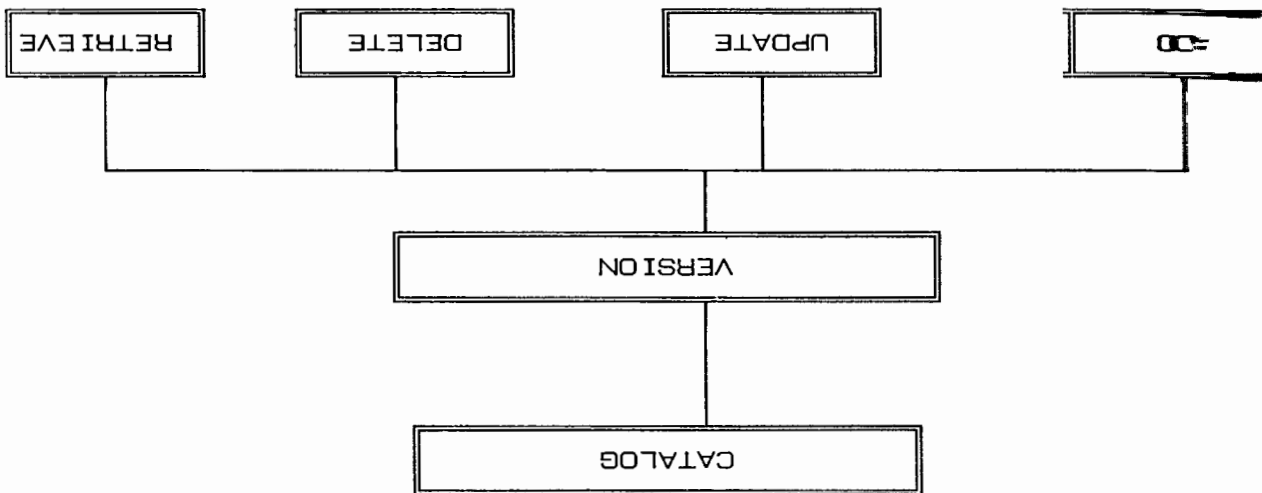
JOHN D. WALKER LIBRARY





DATA FLOW OF THE CATALOGUE SYSTEM

CATALOG/VERSION SUBSYSTEMS DATA FLOW



APPENDIX B  
SYSTEM DATABASE DEFINITION

B-1

---

DATABASE: CATALOG

DESCRIPTION: Catalog data base contains a list of course numbers offered at Southern University. Primary keys for the data base are denoted with asterisk.

DATA ELEMENTS:

FIELD	DATA TYPE
COLLEGE	CHAR(2) **PRIMARY KEY**
DEPARTMENT	CHAR(2) **PRIMARY KEY**
COURSE NUMBER	CHAR(4) **PRIMARY KEY**
VERSION	CHAR(2)
LAST SEMESTER OFF	CHAR(4)
CODE	CHAR(10)

VALIDATION REQUIREMENTS: Blank fields cannot be added to the data base.

SUBSYSTEM: Version

JOHN B. CAULFIELD LIBRARY

DATA BASE: VERSION

DESCRIPTION: Version data base contains full course descriptions, prerequisite and corequisite information.

DATA ELEMENTS:

FIELD	DATA TYPE
CODE	CHAR(10) **PRIMARY KEY**
COURSE NAME	CHAR(30)
SCHEDULE NAME	CHAR(21)
CREDITS	INT(2)
DESCRIPTION	CHAR(400)
REQUISITE	CHAR(3) **PRIMARY KEY**
COLLEGE FIELD	CHAR(2)
DEPARTMENT	CHAR(2)
COURSE NUMBER	CHAR(4)

VALIDATION REQUIREMENTS: Blank fields cannot be added to the data base.

SUBSYSTEM: N/A

JOHN H. CALHOUN LIBRARY

SYSTEM SCREENS

C-1

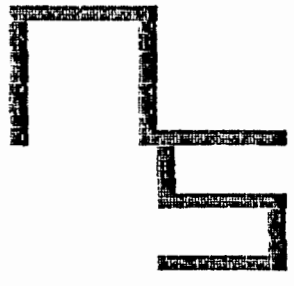
NOV 19 11 11 AM '64

JOHN B. CADE JRRADV

CAPS ON

row 1/20 column 1

SOUTHERN UNIVERSITY  
 DEPARTMENT OF COMPUTER SCIENCE  
 CATALOGUE DATABASE  
 VERSION 1.0  
 BY  
 CLAUDETTE CAPTORIA WATSON



F1=Help

NO CAPS ON

at row 1/15 column 1

PLEASE ENTER IN SYSTEM PASSWORD

PASSWORD: -----

F1=Help

JOHN R. CADEJARDAN



F1=Help

MAIN MENU

- (1). VIEW CATALOGUE
- (2). MODIFY CATALOGUE
- (3). EXIT SYSTEM

CHOOSE ONE OF THE FOLLOWING: -

row 1/21 column 1

CAPS ON

JOHN R. CAPELLI/DABV

F1=Help

---

MODIFY CATALOGUE

---

- 1) ADD
- 2) DELETE
- 3) UPDATE
- 4) PREVIOUS

CHOOSE ONE OF THE FOLLOWING MENUS: -

at row 1/18 column 1

CAPS ON

F1=Help

ADD SUBSYSTEM

COLLEGE:

DEPARTMENT:

COURSE NUMBER:

|||||

VERSION:

CODE:

|||||

(PF1):HELP (PF3):END (PF4):CONTINUE

row 1/22 column 1

- CAPS ON

BRUNNEN & CO. GEDRUCKT

F1=Help

ADD SUBSYSTEM COURSE

COLLEGE:

DEPARTMENT:

COURSE #:

CODE:

COURSE NAME:

SCHEDULE NAME:

PLEASE TYPE IN A COURSE DESCRIPTION

-----  
-----  
-----



PF1: (HELP) PF3: (END) PF4: (CONTINUE)

at row 1/20 column 1

CAPS ON

IBM CORPORATION

ADD SUBSYSTEM PREREQUISTE OR  
COREQUISTE FORM

COLLEGE:

DEPARTMENT:  
CODE:

COURSE #:

ENTER IN FORM OF REQUISTE 'C' FOR COREQUISTE 'P' FOR PREQUISTE.

REQUISTE:

ENTER THE FOLLOWING INFORMATION

REQ\_COLLEGE:

REQ\_DEPT:

REQ\_COURSE #:

PF1:HELP

PF3:3ND

PF4:AND

PF5:OR

F1=Help

UPDATE SUBSYSTEM

COLLEGE:

DEPARTMENT:

COURSE NUMBER:

|||||

VERSION:

CODE:

|||||

(FF1):HELP (PF3):END (PF4):CONTINUE

row 1/21 column 1

CAPS ON



F1=Help

UPDATE SUBSYSTEM PREREQUISTE OR  
COREQUISTE FORM

COLLEGE:

DEPARTMENT:  
CODE:

COURSE #:

ENTER IN FORM OF REQUISTE 'C' FOR COREQUISTE 'P' FOR PREQUISTE.

REQUISTE:

ENTER THE FOLLOWING INFORMATION

REQ\_COLLEGE:

REQ\_DEPT:

REQ\_COURSE #:

PF1:HELP

PF3:END

PF4:AND

PF5:OR

row 1/20 column 1

CAPS ON



F1=Help

DELETE SUBSYSTEM

COLLEGE:

DEPARTMENT:

COURSE NUMBER:

|||||

VERSION:

CODE:

|||||

(PF1):HELP (PF3):END (PF4):CONTINUE

at row 1/23 column 1

CAPS ON

F1=Help

VIEW SUBSYSTEM

COLLEGE:

DEPARTMENT:

COURSE NUMBER:

|||||

VERSION:

CODE:

|||||

TYPE IN THE APPROPRIATE INFORMATION

(PF1):HELP (PF3):END (PF4):CONTINUE

at row 1/22 column 1

CAPS ON

F1=Help

VIEW SUBSYSTEM PREREQUISTE OR  
COREQUISTE FORM

COLLEGE:

DEPARTMENT:  
CODE:

COURSE #:

HERE IS REQUESTED INFORMATION.....

REQUISTE:

REQ\_COLLEGE:  
REQ\_DEPT:  
REQ\_COURSE #:

PF1:HELP

PF3:END

PF4:ADD

PF5:OR

at row 19/20 column 62

CAPS ON

C-16

CAPS ON

at row 1/20 column 1

HIT ENTER TO CONTINUE.....

INVALID KEY TRY AGAIN

F1=Help



COLLEGE	==> 001	COURSE NAME	==> 005
DEPARTMENT	==> 002	SCHEDULE NAME	==> 006
COURSE NUMBER	==> 003	DESCRIPTION	==> 007
VERSION	==> 004	REQUISTE	==> 008

CODE ==> 009

PLEASE ENTER THE APPROPRIATE CODE: ---

F1=Help

COURSE NUMBER HELP MENU

DEPARTMENT

Computer Science

COURSE NUMBERS

ICS100  
ICS110  
ICS111  
ICS140  
ICS141  
ICS170  
ICS200  
ICS201  
ICS240  
ICS250  
ICS251

ESCER: F7(UP) OR F8(DOWN) OR ENTER(END)

at row 1/20 column 1

CAPS ON

F1=Help

||||| COURSE NUMBER HELP MENU |||||

DEPARTMENT

Computer Science

COURSE NUMBERS

- ICS260
- ICS270
- ICS300
- ICS301
- ICS302
- ICS340
- ICS351
- ICS382
- ICS400
- ICS402
- ICS404

ENTER: F7 (UP) OR F8 (DOWN) OR ENTER (END)

F1=Help

DEPARTMENT HELP MENU

DEPARTMENTS

CODES

Accounting	02
Agriculture	04
Agribusiness	06
Agricultural Engineering	08
Animal Science	10
Architecture	12
Behavioral Studies	14
Biology	16
Chemistry	18
Civil Engineering	20
Clothing, Textiles, and Related Arts	22

ENTER : PF7 (UP) PF8 (DOWN) ENTER (END) OR VALUE:

at row 1/20 column 1

CAPS ON



F1=Help

DEPARTMENT HELP MENU

DEPARTMENTS

CODES

Communication Disorders	24
Computer Science	26
Criminal Justice	28
Curriculum and Instruction	30
Economics	32
Educational Leadership	34
Electrical Engineering	36
Electronics Technology	38
English	40
Family Life	42
Fine Arts	44

ENTER : PF7(UP) OR PF8(DOWN) OR ENTER(END) OR VALUE:

at row 1/20 column 1

CAPS ON

F1=Help

COLLEGE HELP MENU

<u>COLLEGES</u>	<u>CODES</u>
College of Agriculture and Home Economics	01
College of Arts and Humanities	02
College of Business	03
College of Education	04
College of Engineering	05
College of Sciences	06

ENTER: PF7(UP) PF8(DOWN) ENTER(END)  
OR TYPE VALUE:

➔ at row 1/20 column 1

— CAPS ON

F1=Help

COLLEGE HELP MENU

COLLEGES

CODES

Jr. Division  
School of Nursing  
College of Public Policy and Urban Affairs  
Graduate School  
ROTC Program

07  
08  
09  
10  
11  
12

ENTER: PF7(UP) PF8(DOWN) ENTER(END)  
OR TYPE VALUE:

➔ at row 1/20 column 1

— CAPS ON

COLLEGE HELP MENU

<u>COLLEGES</u>	<u>CODES</u>
Jr. Division	07
School of Nursing	08
College of Public Policy and Urban Affairs	09
Graduate School	10
ROTC Program	11
	12

ENTER: PF7(UP) PF8(DOWN) ENTER(END)  
OR TYPE VALUE:

F1=Help

VERSION HELP MENU

SYSTEM GENERATED VALUE

DISPLAYS THE MOST RECENT COURSE VERSION NUMBER

at row 1/20 column 2

CAPS ON

F1=Help

CODE HELP MENU

CODE FIELD IS COMPRISED OF THE FOLLOWING FILEDS:

COLLEGE  
DEPARTMENT  
VERSION

AN EXAMPLE: THE CODE FOR COMPUTER SCIENCE COURSE 141

CODE = 260601 WHERE

COLLEGE = 26  
DEPARTMENT = 06  
AND VERSION = 01

(HIT ENTER)

at row 1/20 column 1

CAPS ON

SCREEN DESCRIPTIONS

D-1

SCREEN: Password Menu

DESCRIPTION: First menu of the system to gain authorize  
permission to the data base.

SCREEN FIELD: There is only one prompt on this screen to  
enter a selected command.

VALIDATION REQUIREMENTS: System password administered by  
data base administrator.

FUNCTION KEY: N/A

SUBSISTING: N/A



SCREEN: Main Menu

DESCRIPTION: The second menu of the system for users to select if they would like to view courses or modify courses

SCREEN FIELD: There is only one prompt on this screen to enter the selected command.

VALIDATION REQUIREMENTS: The input key should be 1, 2, or 3.

FUNCTION KEY:

KEY	DESCRIPTION
1	View Catalogue
2	Modify Catalogue
3	Terminate the Program

SUBSYSTEMS: View and Modify subsystems

SCREEN: Add Subsystem Menu

DESCRIPTION: This menu adds course information to the database. The user is prompted to type in fields like college or department.

SCREEN FIELD: N/A

VALIDATION REQUIREMENTS: The input key must be PF1, PF3, or PF4.

FUNCTION KEY:

KEY	DESCRIPTION
PF1	Help
PF3	End Add routine
PF4	Continue to the add description screen.

SUBSYSTEMS: Modify subsystems

SCREEN: Add Subsystem Course Description  
DESCRIPTION: This screen allows the user to add a course description. College, Department, and Course number are display fields only. The code field and the version field are system generated values.

SCREEN FIELD: N/A

VALIDATION REQUIREMENTS: The input key must be PF1, PF3, or PF4.

FUNCTION KEY:

KEY	DESCRIPTION
PF1	Help
PF3	End Add routine
PF4	Continue to the add corequisite/prerequisite screen.

SUBSYSTEMS: Modify subsystems

SCREEN: Add Subsystem Prerequisite or Corequisite Form  
DESCRIPTION: This screen allows the user to add course prerequisite or corequisite information if applicable.

SCREEN FIELD: N/A

VALIDATION REQUIREMENTS: The input key must be PF1, PF3, PF4, or PF5.

FUNCTION KEY:

KEY	DESCRIPTION
PF1	Help
PF3	End Add routine
PF4	Add another course.
PF5	Continue adding prerequisite or corequisite information.

SUBSYSTEMS: Modify subsystems

SCREEN: Update Subsystem Menu

DESCRIPTION: This menu updates course information  
present in the database.

SCREEN FIELD: N/A

VALIDATION REQUIREMENTS: The input key must be PF1, PF3,  
or PF4.

FUNCTION KEY:

KEY	DESCRIPTION
PF1	Help
PF3	End Update routine
PF4	Continue to update course description.

SUBSYSTEMS: Modify subsystems

SCREEN: Update Subsystem Course Description

DESCRIPTION: This screen allows the user to update a course description. College, Department, and Course number are display fields only. The code field and the version field are system generated values.

SCREEN FIELD: N/A

VALIDATION REQUIREMENTS: The input key must be PF1, PF3, or PF4.

FUNCTION KEY:

KEY	DESCRIPTION
PF1	Help
PF3	End Update routine
PF4	Continue to update corequisite, prerequisite screen.

SUBSYSTEMS: Modify subsystems

SCREEN: Update Subsystem Prerequisite or Corequisite  
Form

DESCRIPTION: This screen allows the user to update course  
prerequisite or corequisite information if  
applicable.

SCREEN FIELD: N/A

VALIDATION REQUIREMENTS: The input key must be PF1, PF3,  
or PF4.

FUNCTION KEY:

KEY	DESCRIPTION
PF1	Help
PF3	End Update routine.
PF4	Update another course.
PF5	Continue adding prerequisite or corequisite information.

SUBSYSTEMS: Modify subsystems

SCREEN: Delete Subsystem Menu

DESCRIPTION: This menu deletes course information present in the database. By entering a course in this field all descriptions prerequisite, and corequisite information will be deleted.

SCREEN FIELD: N/A

VALIDATION REQUIREMENTS: The input key must be PF1, PF3, or PF4.

FUNCTION KEY:

KEY	DESCRIPTION
PF1	Help
PF3	End Delete routine
PF4	Delete another record.

SUBSYSTEMS: Modify subsystems



SCREEN: View Subsystem Menu

DESCRIPTION: This menu allows the user to view course information in the data base.

SCREEN FIELD: N/A

VALIDATION REQUIREMENTS: The input key must be PF1, PF3, or PF4.

FUNCTION KEY:

KEY	DESCRIPTION
PF1	Help
PF3	End View routine
PF4	Continue to view course description screen.

SUBSYSTEMS: Modify subsystems

SCREEN: View Subsystem Course Description

DESCRIPTION: This screen allows the user to review course descriptions. College, Department, and Course number are display fields only. The code field and the version field are system generated values.

SCREEN FIELD: N/A

VALIDATION REQUIREMENTS: The input key must be PF1, PF3, or PF4.

FUNCTION KEY:

KEY	DESCRIPTION
PF1	Help
PF3	End View routine.
PF4	Continue to view corequisite prerequisite screen.

SUBSYSTEMS: Modify subsystems

SCREEN: View Subsystem Prerequisite or Corequisite Form  
DESCRIPTION: This screen allows the user to review prerequisite and corequisite information for a course.

SCREEN FIELD: N/A

VALIDATION REQUIREMENTS: The input key must be PF1, PF3, PF4, or PF5.

FUNCTION KEY:

KEY	DESCRIPTION
PF1	Help
PF3	End View routine
PF4	View another course.
PF5	Continue to view prerequisite corequisite information.

SUBSYSTEMS: Modify subsystems

SCREEN: Help Screens

DESCRIPTION: Help screens allow users to prompt on a field name and enters in keyed value in prompted field.

SCREEN FIELD: Field prompts for appropriate value.

VALIDATION REQUIREMENTS: The input key must be PF7, PF8, or enter.

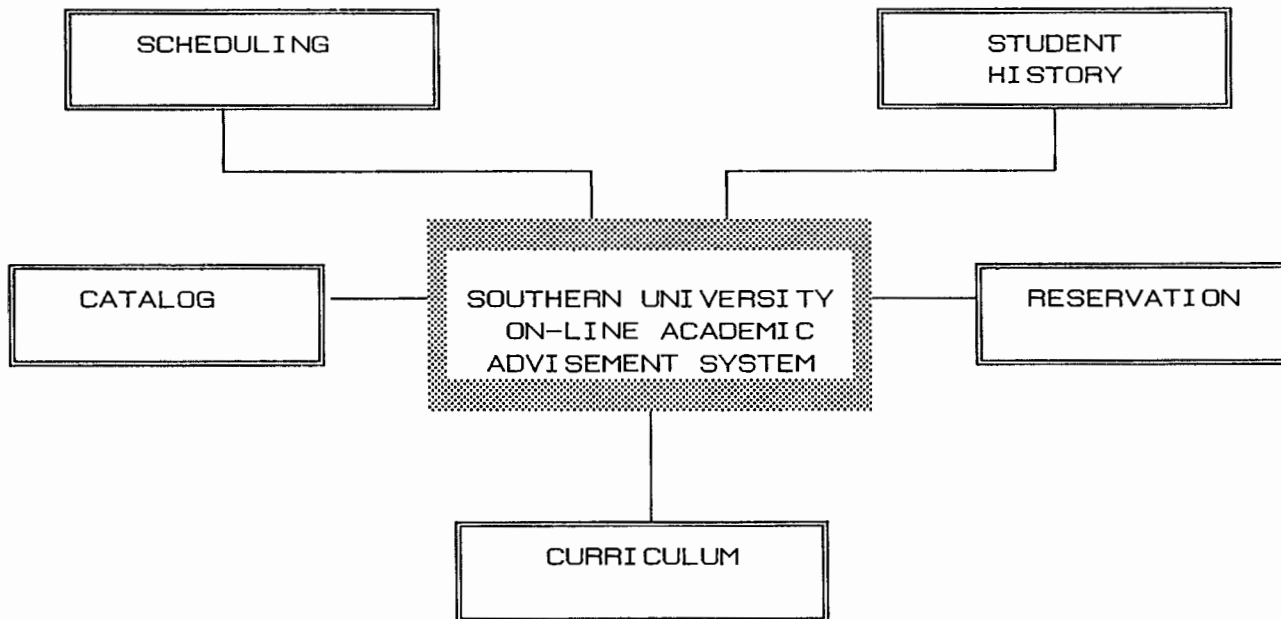
FUNCTION KEY:

KEY	DESCRIPTION
PF7	Page up
PF8	Page Down
enter	Return to calling screen.

SUBSYSTEMS: Modify subsystems

E-1

CAAS SUBSYSTEMS



CAAS SUBSYSTEMS