Transfer Student System

(TSS)

(Includes Cumulative Errata Sheet and Special 2010 Reporting Revision Addendum)

February, 2009 Maryland Higher Education Commission Office of Information Systems

Transfer Student System (TSS)

Addendum for the 2010 Reporting Revisions

(covers changes during the collection years of 2011)

February, 2009

Summary of changes:

In the past data collection standards allowed individuals to be identified in only one racial category. The federal government has developed new ethnic and racial categories to provide a more accurate picture of the nation's diversity. The new categories enable individuals to be identified in both ethnicity and race. They also allow more than one race to be identified. The new race/ethnicity standards that are required in 2011 and since TSS process requires 5 prior cohort years of data prior years of data must be converted or mapped and submitted in 2011.

This addendum provides specific instructions for the TSS system including a revised file format and data dictionary changes. It was recommended by the State-wide workgroup that the schedule for 2010 reporting revisions be oriented around the federally mandatory academic year of AY 2010-2011. Since TSS collects data for the prior academic year 2010-2011, a fully modified TSS file containing the new fields will be required in **November of 2011**.

For additional clarification see the 2010 Reporting Revisions Statewide Workgroup Final Recommendations located at: <u>https://data.mhec.state.md.us/MACInfo/Final%202010%20Workgroup%20Recommendations.pdf</u>

Collection Year 2011 -

Additional 7 New Fields to be reported in collection year 2011

US Citizenship, ethnicity and race (positions 64 - 70) are collected in seven new fields. Each student record has an indicator for US citizenship, Hispanic/Latino ethnic origin and self declaration of five race categories.

•	US Citizenship	(position 64) DD24
٠	Hispanic/Latino Ethnicity	(position 65) DD25
٠	White	(position 66) DD26.1
٠	Black/African American	(position 67) DD26.2
٠	Asian	(position 68) DD26.3
•	American Indian/Alaskan Native	(position 69) DD26.4
٠	Native Hawaiian/Pacific Islander	(position 70) DD26.5

Record	Field	Data Element	Data	Description	MAC
Position	Length		Dictionary		Year
	_		Reference		Required
1-4	4	Collection Year	DD1	Collection cycle year submitted e.g. "1992"	
5	1	Collection Period	DD2	Always = "9" for annual	
6-11	6	FICE Code	DD3	Unique Federal identification number	
12	1	Sub-campus Code	DD4	Code for institution use for multi-campus or	
10.01	0		202	organization identification	
13-21	9	Identification Number	DD5	Social Security Number or alternative identifier or Individual Taxpayer Identification Number (ITIN)	
22	1	Identification Number Type	DD6	Code "blank" if the identification number is a	
	_			Real SSN or ITIN. Code "2" to indicate that the	
				identifier is NOT a real SSN or ITIN.	
23	1	Race/Ethnicity (1997 Standard)	DD20	The 1977 standards for single category	
				race/ethnicity. Required through 2009 collection and reported if available after 2010 and beyond	
24	1	Gender	DD21	Student gender or assigned if unknown	
25-28	4	Birth Year	DD22	Four digit year of birth	
29-30	2	Degree Sought	DD22 DD30	Standard codes to identify degree level being	
27-30	2	Degree Sought	DD30	sought or non-degree seeking, see TSS manual for	
				details	
31-36	6	Program Taxonomy	DD31	MHEC taxonomy for the student's most recent	
27.20	2	Reserved		program area Blanks	
37-38	2		DD 12		
39-41	3	Spring Credit Hours Earned	DD43	Credit hours earned in spring Semester of current reporting year, in format $7.0 = "070"$	
42-45	4	Cumulative Native Credit	DD44	Current credit hours completed at reporting	
		Hours Earned		institution, in format $62.5 = "0625"$	
46-48	3	Cumulative GPA	DD52	Current grade point average as defined by	
				institution, in format 3.52 = "352"	
49-52	4	Bachelor's Graduation Year	DD60	Four digit calendar year	
53-58	6	FICE (sending institution)	DD3	FICE Code for the community college identified as	
				sending institution when the student defined as transfer entrant	
59-62	4	Transfer Student Entrant Year	DD61	Four digit calendar year student first entered as	
				transfer	
63	1	Transfer Student Entrant	DD62	Semester code when student first entered as	
		Semester		transfer	
64	1	US Citizenship	DD24	Identifies whether student is in the U.S.	2011
65	1	Hispanic Latino Ethnicity	DD25	Citizenship Group or not Identifies whether student is of Hispanic or	2011
03	1	(1997 Standard)	DD25	Latino origin under 1997 standards	2011
66	1	White	DD26.1	Multi-race identification for indicator	2011
00	1	(1997 Standard)	DD20.1	under 1997 standards	2011
67	1	Black/African American	DD26.2		2011
67	1		DD26.2	Multi-race identification for indicator under 1997 standards	2011
(0	-	(1997 Standard)	DDAGA		2011
68	1	Asian (1997 Standard)	DD26.3	Multi-race identification for indicator	2011
69	1	American Indian/Alaska	DD26.4	under 1997 standards Multi-race identification for indicator	2011
0)	1	Native (1997 Standard)	DD20.4	under 1997 standards	2011
70	1	Native Hawaiian or Other	DD26.5	Multi-race identification for indicator	2011
		Pacific Islander		under 1997 standards	
71-101	31	Reserved for DIS data		Always blank	

Transfer Student System (TSS) File Version 2 Specification Format 1 as supplied by 4 year institution.

Transfer Student System (TSS) File Version 2 Specification Format 2 (as supplied to Community Colleges with matching DIS information)

Record Position	Field Length	Data Element	Data Dictionary Reference	Description
71-101	31	DIS Degree Data		Matching ID records TSS and DIS Information
71-76	6	FICE Code of Other 4-Year Institution	DD3	FICE from DIS
77-80	4	Bachelors Year - at Other 4- Year Institution	DD60	Bachelor year from DIS
81-86	6	Program Taxonomy - at Other 4- Year Institution	DD31	Degree program from DIS
87-88	2	Degree Month – at 2-Year Public Institution	See TSS Manual	Degree month from DIS
89-90	2	Degree Year – at 2-Year Public Institution	See TSS Manual	Degree year from DIS
91-92	2	Degree – at 2-Year Public Institution	DD30	1=Lower Division Certification or 2=Associate Degree from DIS
93-98	6	Program Taxonomy – at 2- Year Public Institution	DD31	Degree Program taxonomy from DIS
99-101	3	Grade Point Average - at 2- Year Public Institution	DD52	Grade Point Average must be greater than 0.00 and less than or equal to 4.00 from DIS

Four-year public institutions submit a record their transferees from each particular two-year sending institution using the **Transfer Student System (TSS) File Version 2 Specification Format 1** where positions 1 through 70 are completed and edited by the four-year public institutions.

The Commission incorporates graduation information from other 4-year public colleges/institutions by adding the Degree Information System (DIS) data into these TSS records, positions 71 through 101. This degree information is used to provide statewide analysis of the graduation rate for transfer cohorts and includes any respective cohort's graduation information found at any other 4-year public institution.

• 2011 Transfer Student Data Submissions

The record format for TSS is modified to accept the **new standard** in the **2011 submission**. The institution will map old data to the new using the same technique as prescribed for below. The following table shows the transition for each community college transfer cohort and how TSS reporting will be done.

TSS submission year	AY 200 5 200 6	AY 2006 2007	AY 2007 2008	AY 2008 2009	AY 2009 2010	AY 2010 2011	AY 2011 2012	AY 2012 2013	AY 2013 2014	AY 2014 2015
2010	Old	Old	Old	Old	Old					
2011		Map	Map	Map	Map	New				
2012			Map	Map	Map	New	New			
2013				Map	Map	New	New	New		
2014					Map	New	New	New	New	
2015						New	New	New	New	New

In this table, the following definitions apply:

- Old 1977 race/ethnicity standards
- Map mapped from 1977 race/ethnicity and reported under 1997 standards
- New 1997 race/ethnicity standards

These reporting requirements for TSS require the data for the cohort indicated as mapped above to be converted from the 1977 aggregate standards to the individual two question 1997 standards. The following table provides guidance on the methodology to do this mapping.

1977 Aggregate Standards	U.S. Citizen Category	1997 Ethnicity	1997 Race Fields marked Yes
Black or African	Yes	No	Black or African
American			American
American Indian or	Yes	No	American Indian or
Alaskan native			Alaskan native
White	Yes	No	White
Asian/Pacific	Yes	No	Asian
Islander			
Hispanic	Yes	Yes	None (all blank)
Foreign (Non-	No	None (blank)	None (all blank)
resident alien)			
Unknown/Other	Yes	None (blank)	None (all blank)

Data Dictionary changes:

ELEMENT TITLE: Race/Ethnicity (1977 Standard)

DEFINITION: Federal 1977 categories used to describe groups to which individuals identify with, or belong in the eyes of the community. The categories do not denote scientific definitions of anthropological origins. A person may be counted in only one group. Resident aliens (holders of Form I-551/155), noncitizens who have been lawfully admitted for permanent residence are to be reported in the appropriate racial/ethnic categories along with United States citizens.

THESE CATEGORIES ARE NO LONGER DETERMINED FOR ALL STUDENTS OR EMPLOYEES AFTER THE 2010 REVISIONS. ALL REPORTING WHICH IS BASED ON THE AY 2010-2011 AND LATER USES THE NEW 1997 STANDARDS ON PAGES 26-26.5. THIS DATA IS CONTINUED TO BE SUBMITTED FOR STUDENTS WHO ENROLLED PRIOR TO 2010 AND REPORTED UNDER 1977 STANDARD.

FORMAT: numeric - 1 digit CODES:

- 0 = Unknown
- 1 = Black (African American), non-hispanic
- 2 = American Indian or Alaskan Native
- 3 = Asian/Pacific Islander
- 4 = Hispanic
- 5 = White, non-hispanic
- 6 = Foreign (in EDS 6 = All Other)
- 7 =All Other (in EDS 7 not used)

COMMENTS: In EDS prior to 2010 reporting, US Citizenship is used to determine foreign employees. See 2010 Reporting Revisions Recommendations document for more information.

RELATED TO: US Citizenship

GLOSSARY: UNKNOWN, BLACK, NON-HISPANIC (1977), ASIAN (1977), HISPANIC (1977), WHITE, NON-HISPANIC (1977), FOREIGN (1997), ALL OTHER (1997), NATIVE AMERICAN, AFRICAN AMERICAN, AMERICAN INDIAN OR ALASKAN NATIVE (1977)

SYSTEMS: EIS, TSS, HGS, DIS, EDS, AGGR, RTN, FAIS

SYSNAME: RACE

DOCUMENTED: 1/10/77 Revised: 1/30/09

-DD20-

US Citizenship

DEFINITION:	The identification of whether a student or employee is a U.S. citizen or not (nonresident alien). The determination of U.S. citizen requires the use of a "group" concept that includes several types of individuals including U.S. citizens, U.S. nationals, resident aliens and other eligible non-citizens.
FORMAT:	numeric - 1 digit
CODES:	 1 = U.S. citizenship group consisting of U.S. citizens, U.S. nationals, resident aliens and other eligible non-citizens 2 = non-resident alien (also known as foreign)
COMMENTS:	There is no allowance for unknown US Citizenship. See 2010 Reporting Revisions Recommendations document for more information.
RELATED TO:	RACE/ETHNICITY (1977), MULTI-RACE (1997), ETHNICITY (1997)
GLOSSARY:	U.S. CITIZENSHIP GROUP, RESIDENT ALIEN, U.S. NATIONAL, NONRESIDENT ALIEN
SYSTEMS:	EIS,HGS,AGGR,RTN,EDS,TSS,DIS,FAIS
SYSNAME:	CITIZEN
DOCUMENTED:	1/10/77 Revised: 1/30/09

-DD24-

Hispanic Latino Ethnicity (1997 Standard)

DEFINITION:	The identification of whether a student or employee is of Hispanic or Latino ethnicity.
FORMAT:	alphanumeric – 1 character
CODES:	Y = yes to Hispanic or Latino origin N = no to Hispanic or Latino origin blank = not answered or declared
COMMENTS:	See 2010 Reporting Revisions Recommendations document for more information.
RELATED TO:	Race/Ethnicity (1997), multi-race (1997), US Citizenship
GLOSSARY:	HISPANIC (1997), LATINO
SYSTEMS:	EIS,HGS,AGGR,RTN,EDS,TSS,DIS,FAIS
SYSNAME:	HISPANIC

DOCUMENTED: 1/30/09 Revised:

-DD25-

Multi-race for 1997 Standard

DEFINITION:	The student's multi-race responses to the race question of the 1997 two-question format. The data can be directly from the student response (preferred method), an institution mapping of the old 1977 standard or possibly by observer declaration depending upon the data and the institutions procedures.
FORMAT:	alphanumeric - 5 character array may be all blank
CODES:	The coding is the same in each of the race fields in the array. Y = yes to the specific race category blank = not answered or declared
COMMENTS:	 There is no unknown coding. If the array is blank for all fields the students race is considered to be unknown. Each individual race field is defined on the pages for: White Black or African American Asian American Indian or Alaska Native Native Hawaiian or Pacific Islander See 2010 Reporting Revisions Recommendations document for more information.
RELATED TO:	US Citizenship, Ethnicity (1997)
GLOSSARY:	WHITE, BLACK (1997), AFRICAN AMERICAN, ASIAN (1997), AMERICAN INDIAN/ALASKA NATIVE (1997), NATIVE HAWAIIAN/ PACIFIC ISLANDER (1997)
SYSTEMS:	EIS,DIS,HGS,TSS,EDS,FAIS
SYSNAME:	RACEALL
DOCUMENTED:	1/30/09 Revised:

-DD26-

White (1997 Standard)

DEFINITION:	The student's response to the White question of the multi-race question of the 1997 two- question format. The data can be directly from the student response (preferred method), an institution mapping of the old 1977 standard or possibly by observer declaration depending upon the data and the institutions procedures.
FORMAT:	alphanumeric - 1 character may be blank
CODES:	Y = yes to the White race category blank = not answered or declared
COMMENTS:	Only for the one single White race category. See 2010 Reporting Revisions Recommendations document for more information.
RELATED TO:	Multi-race for 1997 Standard, US Citizenship, Ethnicity (1997)
GLOSSARY:	WHITE (1997)
SYSTEMS:	EIS,DIS,HGS,TSS,EDS,FAIS
SYSNAME:	RWHITE
DOCUMENTED:	1/30/09 Revised:

-DD26.1-

Black/African American (1997 Standard)

DEFINITION:	The student's response to the Black/African American question of the multi-race question of the 1997 two-question format. The data can be directly from the student response (preferred method), an institution mapping of the old 1977 standard or possibly by observer declaration depending upon the data and the institutions procedures.
FORMAT:	alphanumeric - 1 character may be blank
CODES:	Y = yes to the Black/African American race category blank = not answered or declared
COMMENTS:	Only for the one single Black/African American race category. See 2010 Reporting Revisions Recommendations document for more information.
RELATED TO:	Multi-race for 1997 Standard, US Citizenship, Ethnicity (1997)
GLOSSARY:	BLACK (1997), AFRICAN AMERICAN
SYSTEMS:	EIS,DIS,HGS,TSS,EDS,FAIS
SYSNAME:	RBLACK
DOCUMENTED:	1/30/09 Revised:

-DD26.2-

Asian (1997 Standard)

DEFINITION:	The student's response to the Asian question of the multi-race question of the 1997 two- question format. The data can be directly from the student response (preferred method), an institution mapping of the old 1977 standard or possibly by observer declaration depending upon the data and the institutions procedures.
FORMAT:	alphanumeric - 1 character may be blank
CODES:	Y = yes to the Asian race category blank = not answered or declared
COMMENTS:	Only for the one single Asian race category. See 2010 Reporting Revisions Recommendations document for more information.
RELATED TO:	Multi-race for 1997 Standard, US Citizenship, Ethnicity (1997)
GLOSSARY:	ASIAN (1997)
SYSTEMS:	EIS,DIS,HGS,TSS,EDS,FAIS
SYSNAME:	RASIAN
DOCUMENTED:	1/30/09 Revised:

-DD26.3-

American Indian/Alaskan Native (1997 Standard)

DEFINITION:	The student's response to the American Indian/Alaskan Native question of the multi-race question of the 1997 two-question format. The data can be directly from the student response (preferred method), an institution mapping of the old 1977 standard or possibly by observer declaration depending upon the data and the institutions procedures.
FORMAT:	alphanumeric - 1 character may be blank
CODES:	Y = yes to the American Indian/Alaskan Native race category blank = not answered or declared
COMMENTS:	Only for the one single American Indian/Alaskan Native category. See 2010 Reporting Revisions Recommendations document for more information.
RELATED TO:	Multi-race for 1997 Standard, US Citizenship, Ethnicity (1997)
GLOSSARY:	AMERICAN INDIAN/ALASKAN NATIVE (1997)
SYSTEMS:	EIS,DIS,HGS,TSS,EDS,FAIS
SYSNAME:	RAIAN
DOCUMENTED:	1/30/09 Revised:

-DD26.4-

Native Hawaiian/Pacific Islander (1997 Standard)

DEFINITION:	The student's response to the Native Hawaiian/Pacific Islander question of the multi-race question of the 1997 two-question format. The data can be directly from the student response (preferred method), an institution mapping of the old 1977 standard or possibly by observer declaration depending upon the data and the institutions procedures.
FORMAT:	alphanumeric - 1 character may be blank
CODES:	Y = yes to the Native Hawaiian/Pacific Islander category blank = not answered or declared
COMMENTS:	Only for the one single Native Hawaiian/Pacific Islander category. See 2010 Reporting Revisions Recommendations document for more information.
RELATED TO:	Multi-race for 1997 Standard, US Citizenship, Ethnicity (1997)
GLOSSARY:	NATIVE HAWAIIAN/PACIFIC ISLANDER (1997)
SYSTEMS:	EIS,DIS,HGS,TSS,EDS,FAIS
SYSNAME:	RNHPI
DOCUMENTED:	1/30/09 Revised:

-DD26.5-

Update History

The following table lists the update history of printings of this document, together with the respective relapse dates for each edition. The software version indicates the release version of the software product at the time the document was issued. Do not expect a one-to-one correspondence between releases and document editions.

Updates Number	Date	Software Release
Original	May 1992	#1
#1	May 1993	#1.5
#2	February 2009	#2

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I. Executive Summary

This manual discusses the automated data collection systems used by the Maryland Higher Education Commission in collecting data about students and employees in Maryland's postsecondary education institutions. These systems collect student enrollment degree information and employee information from an institution. Data for each student or employee (based on SSN) is submitted by each institution on computer tapes to the Commission. The procedures, standards, and data element definitions for this data collection are contained within each system manual.

A. Objective

The objective is the collection of student information from all public postsecondary education institutions in Maryland and all independent collegiate institutions which fall under the State aid to independent institutions program. Employee information is collected from public institutions only. These data elements are the basis of information systems that are compatible with the Federal postsecondary education reporting structure, meet the planning and research objectives of the Maryland Higher Education Commission, allow accountability assessment, and provide information for the Maryland Student Outcomes and Achievement Report (SOAR).

B. Description

The unit-record data collection requires five systems:

- Enrollment Information System (EIS)
- High School Graduate System (HGS)
- Transfer Student System (TSS)
- Degree Information System (DIS)
- Employee Data System (EDS)

Each of these systems contain one record for each reported student. The files contain three types of information.

- Identification Information
- Demographic Information
- Detail Information

The first two types of information are common to all files. The third type is specific to each file's definition and purpose. All three types are explained in the manual for each system.

- C. Major Use of Data
- To collect, maintain, and report information on the students enrolled in and graduating from Maryland postsecondary education institutions.

- To provide the Maryland General Assembly with timely and accurate reports of the status of higher education in the State in support of statewide policy decisions.
- To provide data to guide the Commission in making decisions on new program approvals and program discontinuance.
- To provide the supporting data necessary to evaluate the potential impact of Commission policies.
- To analyze the performance of selected groups of students within the Maryland postsecondary education system.
- To analyze the long-term effect of policies within the Maryland system of higher education.
- To maintain the Cohort Tracking System, a longitudinal database of students in the Maryland education collegiate system.
- To report to the U.S. Department of Education the enrollment and degrees conferred data that is annually requested.
- To provide to the U.S. Office of Civil Rights statistical reports and satisfy other data requests.
- To report to the U.S. Equal Employment Opportunity Commission the Higher Education Staff Information (EEO-6) survey.

D. Data Access

The aggregated data reports derived from the student unit-record data systems are considered to be public information. The Commission, however, treats the individual data records as "personally identifiable" and protects these records in accordance with legal requirements and other established policies (see Section II). Institutional researchers and boards are encouraged to utilize these data systems for studies of institutions and/or higher education in Maryland within the limitations set forth in Section II.

E. Benefits

The student unit-record data systems provide valuable benefits by permitting tabulations that are not possible with aggregate data. The common definitions and linkages across the files in the system also produce a more comprehensive and comparable picture of higher education. Other benefits are:

- The same source of data is used for Institutional studies, Federal reports, and State studies and reports produced by the Commission.
- Flexibility of the information collected enables the Commission to be more responsive to new policy questions and issues. Aggregate data is specific, single-result oriented while unit-record data is multiple-use oriented.
- The ability to link diverse files permits a report or analysis to be understood within the total postsecondary education context.
- Common data definitions provide for file and field consistency. All institutions use the same basis for categorizing each student. The reports are less susceptible to subjective interpretations of definitions and allow comparative analyses among various student groups.
- Error correction is simplified since the inclusion of a student identification number allows a record with an error to be updated. This is preferable to an operating procedure of replacing the whole file when an error is identified.
- The production of trend reports and student profiles by subgroups is possible due to the inclusion of the necessary data elements and a student identification number.
- The consolidation of multiple data requests into primary file requests alleviates some of the data collection burden placed on institutions.

II. Statewide Overview

A. Maryland Higher Education Commission

The Maryland Higher Education Commission is the central policy and coordinating board for higher education in the state of Maryland. The duties and powers of the Commission apply to all state-supported institutions of higher education, including all independent postsecondary education institutions in the State, supported in whole or part by state funds and all community colleges. The governing boards and institutions of the system of higher education in Maryland are obligated to conform to the policies set by the Commission within the authorities delegated to it in statute.

The Commission is responsible for educational policy and issues in the following areas:

- Finance
- Capital construction
- Long range planning
- Program approval, review, reduction, and discontinuance
- Systemwide planning
- Accountability
- State financial aid programs

B. Office of Information Systems

The Office of Information Systems is the component of the Commission that is responsible for data collection and data systems reporting, regarding such areas as student enrollment; formal awards; and employee data. If it fails in its collection task, Information Systems cannot provide relevant information and analyses. These data issues affect its performance:

- value of data
- accuracy of data
- completeness of data
- consistency of data
- timeliness of data

Therefore, it has the following goals:

- To respond to the information needs of the Maryland educational community, in particular to those of the Commission, in a professional and timely manner.
- To achieve simplicity in data collection and reporting procedures that results in high quality data and places a minimum burden upon the reporting institutions.
- To effect the optimum utilization of available resources: Commission staff, institutional and governing board staff, and other state agencies.

C. System Design

The concept of unit-record reporting systems was developed to achieve higher quality data, single data source for each type of data, greater analytical flexibility, and reduction in institutional reporting burdens.

There are four files collected which can be interlinked via the student's identification number:

- Enrollment Information System (EIS)
- High School Graduate System (HGS)
- Transfer Student System (TSS)
- Degree Information System (DIS)

The Enrollment Information System (EIS) is collected as a snapshot of the fall term each year during fall term. It is used to provide:

- data for federal reports; and
- information to assess the current academic year.

The High School Graduate System (HGS) is collected at the end of the academic year and represents an annualized performance summary of the first year of their enrollment. This system provides:

- support for longitudinal studies through cohort based tracing (such as retention, graduation rates, etc.);
- comprehensive information on the progress of high school graduates in their first year of college;
- support for longitudinal based studies; and
- complete information for the SOAR feedback to secondary education officials.

The Transfer Student System (TSS) is collected at the end of the academic year and provides data on students who transferred to 4-year colleges from community colleges. This system was developed to provide:

- feedback information to community colleges on the performance of their students after transferring to 4-year college; and
- support for longitudinal based studies.

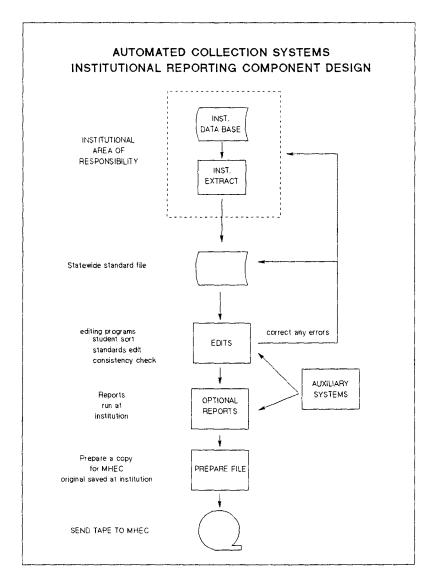
The Degree Information System (DIS) is collected at the end of the fiscal year to provide complete data on all formal awards made during the previous year. This system provides:

- formal award data as a outcome measure;
- complete information on an annualized basis; and
- support for longitudinal studies.

D. System Responsibilities

The responsibility for ensuring the accuracy of the data and the readability of the tapes is primarily that of the institution. Tapes with errors, and tapes that cannot be read may be returned to the institution for correction with appropriate written feedback.

The Commission provides two editing programs for each system. An institution <u>must</u> use these programs for error checking before submitting the tapes. The exception edit identifies all errors when checking against file specifications and provides some basic summaries. The second program is the consistency check which compares the data submitted in the previous year to the current file. This check identifies potential problems for key data elements in the file by flagging percent change differences that exceed threshold values.



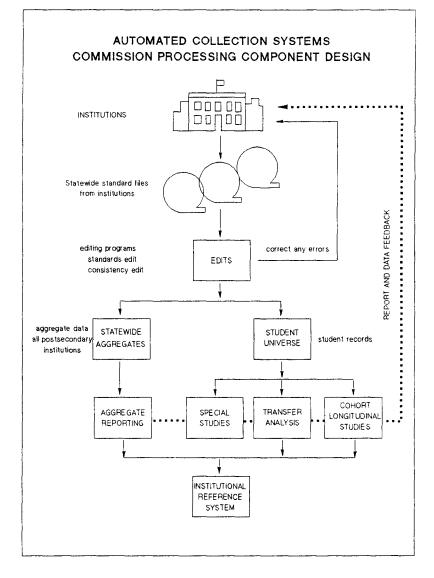
Additionally, the Commission provides a set of reporting programs with each system. These programs are run using the edited file (i.e. has been checked and corrected through the two editing programs) that will be forwarded to the Commission. These programs provide a set of standard Commission reports and several federal facsimile reports. Institutions should run these reports prior to sending the file to the Commission. Their output should be reviewed to insure data correctness and usability. Once the above steps are completed, the file should then be sent to the Commission with the tape specification form (Appendix C). The due dates for each system are published annually in the collection package schedule.

The Commission processes the tape files in the same manner as the institutions. Both an exception edit and consistency check very similar to the institution version are run at the Commission. If errors or data consistency problems are found, the institution will be contacted for error resolution.

The following procedures regarding error resolution are in effect:

- Corrections should be submitted in writing, signed, and dated. At the Commission's discretion, telephone corrections may be accepted. Phone conversations will be used to resolve minor problems but institutions with major problems will be handled in writing.
- 2. All corrections are related to an individual student record or group of records. No aggregate number on a report may be adjusted.
- 3. Cut-off date for corrections is calculated from the file due date, not from the date of submission.
- 4. There will be no corrections to any data files for prior reporting cycles. The error resolution/verification period is the appropriate time for an institution to settle any inconsistencies. A file may be resubmitted for the previous year but this re-submission must be pre-approved by Commission staff and be substantiated by significant rationale.

The error resolution/verification phase ranges from four weeks to two months, depending on the Commission's correction cut-off date. It is mandatory that the institution respond within this predetermined period. The cut-off date is determined for each collection cycle and institutions are notified of this cut-off at the time error resolution starts.



The tape submission (signed by the institution) certifies the data and authorizes the Commission to use the data for state and federal reporting, Commission needs (including research), and legislative analysis. The Commission reserves the right to resolve any non-corrected errors on the file should the institution fail to do so. The Commission has the responsibility of notifying the institution that these changes were made to the file. The corrected file is then locked and no further updates can be made to the file. Institutions may request a copy of the final file from the Commission. It is at this point that the data is processed into longitudinal study files and statewide aggregate files.

III. Policy Concerning the Privacy of Personally-identifiable Records

A. Statutory Requirements

The Commission regularly collects, in accordance with its legal responsibilities, information on students and employees of Maryland institutions of postsecondary education. This information is often collected on an aggregated or summary basis, but data on individuals may be collected from student records for the purpose of constructing aggregated or summary reports on given topics. This data on individuals is further used in evaluating and auditing of state-supported programs.

The Commission is granted this collection authority under Title II of the Education Articles of the Annotated Code of Maryland. Specifically, Section 11-105 (f) provides:

(f) Information; research; inspections, evaluations; assessment of and recommendations for funding. - The Commission:

(1) May secure, compile, and evaluate information on any matter within its authority, in the format it requires, from any person, agency, or institution subject to its authority;
(2) May engage in research, data compilation, and publication of reports concerning postsecondary education in the State;
(3) Through its representatives, may visit at any reasonable times and make reasonable inspections of any institution of postsecondary education subject to its authority.

The pertinent federal statute is the Buckley Amendment, federal statute 20 U.S.C. Section 1232g, that protects the rights of students to insist that their educational records be kept confidential. An amendment in 1979 states that:

> (5) Nothing in this section shall be construed to prohibit State and local educational officials from having access to student or other records which may be necessary in connection with the audit and evaluation of any federally or State-supported education program or in connection with the enforcement of the Federal legal requirements which relate to any such program, subject to the conditions specified in the proviso in paragraph (3). (20 U.S.C. Section 1232g(b) (5))

The proviso referred to in the above paragraph is:

Provided, That except when collection of personally identifiable information is specifically authorized by Federal law, any data collected by such officials shall be protected in a manner which will not permit the personal identification of students and their parents by other than those officials, and such personally identifiable data shall be destroyed when no longer needed for such audit, evaluation, and enforcement of Federal legal requirements.

In collecting and maintaining this data, the Commission must follow the relevant state and federal statutes to protect and keep confidential the data collected of individuals. Title 6 Part III (Access to Public Records) of the State Government Articles of the Annotated Code of Maryland requires that an annual report be filed on the Commission's "personal records" and identifies procedures for access to public records.

The provisions of the Buckley Amendment are usually interpreted to allow data on individuals to be collected from student records by a state agency for the purpose of constructing aggregated or summary reports, as long as students are still provided the same protections regarding their rights to privacy as are provided by the institutions providing the data.

B. Commission Policy

The following policy has been adopted by the Commission to guarantee the protections of individuals.

APPENDIX A

SBHE Policy Concerning the Privacy of Student Records Maintained by the Board

(Adopted by SBHE, May 1977)

The Board regularly collects, in accordance with its legal responsibilities, information on students enrolled in Maryland institutions of postsecondary education. This information is often collected on an aggregated or summary basis, but data on individuals may be collected from student records for the purpose of constructing aggregated or summary reports on given topics. With respect to these individual student records:

- 1. Any personally-identifiable information will consist only of items required for legitimate reports and studies of the Board; specific description of the data possessed by the Board will be provided upon request. Inquiries should be addressed to the Board's offices in Annapolis.
- 2. Any student, or parent of a student under 18 years of age, may upon application to the Board's offices at 16 Francis Street, Annapolis, Maryland 21401, inspect, review, or seek correction of any records of that student maintained by the Board. The Board will provide copies of such records for a fee equal to the actual reproduction or computer processing costs.

- 3. The Board will maintain a record of disclosures of personally-identifiable information made from the education records of a student, and will permit a student, or parent of a student under 18 yeas of age, to inspect that record.
- 4. If, after an application to correct records is made, and a hearing held thereon, the Board decides that the information contained in its records is not inaccurate, misleading, or otherwise in violation of a student's rights, the Board will inform the student, or parent of a student under 18 years of age, of the right to place in the student's education records a statement commenting upon the information contained in the records, or setting forth any reasons for disagreement with the Board's decision.
- 5. Copies of this policy will be published annually and will be provided upon request to interested individuals, in accordance with (HEW) Regulation 45 C.F.R. 99.6.
- Note: The above policy was developed in consultation with the Attorney General's Office to fulfill requirements of U. S. Title 45, Part 99: "Privacy Rights of Parents and Students." This policy is based upon current regulations and may be changed to meet future legal requirements.

C. Commission Procedures

In addition to the above policy, the Commission staff has established additional measures to guarantee the protection of individuals.

- 1. Personally-identifiable student and employee record information collected from institutions of higher education except those for State scholarship programs will be maintained using only an encrypted number at the Commission. This encryption insures personal records are not available for direct access from computer files.
- 2. The encryption of the identifying number will be performed at the institution. This insures the protection of personally-identifiable data at all times after data is released by the institution.

IV. Transfer Student System

A. Objective

The Transfer Student System (TSS) will collect academic performance data for community college transfer students at 4-year institutions.

B. Description

This system was developed by the Commission in 1991 with the advice of a technical steering committee comprised of segment and institution representatives. It was designed to meet (a) the data needs for community college transfer student feedback component of the Student Outcomes and Achievement Report (SOAR) and (b) special studies requiring student unit record based data. The system is scheduled for its first collection from public institutions in 1992 for academic year 1991-92.

The Student Outcomes and Achievement Report (SOAR) will provide feedback to Maryland community colleges on the academic performance of their transfer students for a five year period at Maryland colleges and universities. The Transfer Student System will be implemented to collect data from 4-year colleges on those students transferred from a Maryland community college to a Maryland 4-year institution at any time in the preceding five year period. The data collected will be combined on a statewide basis. After processing by the Commission, summary reports and individual student records will be forwarded to each community college for their students who transferred.

C. Selection Criteria

Data will be collected for the reporting period on all undergraduate students who have transferred in the last five academic years. All students who were entrants to 4-year institutions as transfer students from Maryland public community colleges during the preceding five academic years should be included. Once a student is defined as a transfer entrant in an academic year, he/she will continue to be reported for five years regardless of current undergraduate enrollment status. Data on enrollment as a graduate student should not be provided during the five-year tracking period. Starting with the 1991-92 academic year, a transfer entrant is defined as having transferred 12 credit hours to the 4-year institution and started at any time during the academic year. These transferred 12 credit hours should be from the community college indicated as the sending institution but can be from any institution when only available this way. Prior to the 1991-92 academic year, institutional definitions of transfer entrants vary. Institutions will provide to the Commission these various definitions for inclusion into system documentation. Students should be included even if they:

• Enrolled in any off-campus center or branches.

- Exclusively audited classes.
- Exclusively attended remedial courses.
- Attended any semester in reporting year regardless of outcome.

Students are to be <u>excluded</u> from this submission if they are:

- Transferring from a college other than a Maryland community college.
- Defined as transferring from a community college with less than 12 credit hours (starting AY 1991-92) accepted by the reporting 4-year institution.
- Already known to have received a bachelor's degree from any institution.
- Studying abroad where enrollment at the institution is only an administrative record and the fee is nominal.
- Enrolled exclusively in non-credit continuing education courses.

An example of a student reporting is given below in Section E. System Design.

D. Collection Requirements

This data collection will be due each October 1 as a part of the MHEC Annual Collection package. Data will be collected at this time on the prior academic year's reporting period. The data will be provided on tape to the Commission from every public institution in Maryland starting in 1992 for the 1991-1992 academic year. Independents will be required to participate in future collections.

Each time a tape is submitted it must be accompanied with a completed "Institutional Certification and Specification Form for Automated Submission" (see Appendix C). This form provides the institution with the preferred tape specifications as well as a mechanism to transmit the actual tape creation specifications to the Commission. More importantly, this form is used by the institution to certify the data submitted. The individual signing the certification should be authorized to do so by the institution. This individual is responsible for the review of outputs from the edits and any optional system reports to ensure that the data being submitted is correct.

E. System Design

The system provides academic performance data on each community college student who transfers to a 4-year institution with at least 12 credit hours. This is accomplished by the development of a standard reporting format and definitions for this data. The following is the format for data required on the tape for each student:

Transfer Student System (TSS) Record Description

				Data Dict page
Data Element	Description Ler	lgth	Position	<u>reference</u>
Collection Year	collection cycle year submitted e.g. "1992"	4	1-4	DD1
Collection Period	always = "9" for annual	. 1	5	DD2
FICE	federal code number for reporting institution	· 6	6-11	DD3
Sub-campus Code	code for institution use for multi-campus or organizational identification	1	12	DD4
Identification Number	student's social security number on institution copy and encrypted number on tape submitted	9	13-21	DD5
Identification Number Type	code to indicate whether an actual SSN or an institution assigned student number was used	1	22	DD6
Race/Ethnicity	standard codes for ethnic categories	1	23	DD20
Gender	standard codes for male, female and assigned unknowns	1	24	DD21
Birth Year	four digit year of birth	4	25-28	DD22
Degree Sought	standard codes to identify degree level being sought or non- degree seeking, see discussion after exampl	2 .e	29-30	DD30
Program Taxonomy	MHEC taxonomy for the student's most recent program area, last two positions are always	8	31-38	B DD31

	blank and for expansion, see discussion after exa			
Spring Credit Hours Earned	credit hours earned in spring semester of <u>curre</u> <u>reporting year</u> , in forma 7.0 = "070"		39-41	DD43
Cumulative Native Credit Hours Earned	current credit hours completed at reporting institution, in format 62.5 = "0625"	4	42-45	DD44
Cumulative GPA	student's current grade point average as defined by institution, in forma 3.52 = "352"		46-48	DD52
Bachelor's Grad- uation Year	four digit calendar year	4	49-52	DD60
FICE (<u>sending</u> institution)	FICE code for the community college identified as sending institution when the student defined as transfer entrant	6	53 - 58	DD3
Transfer Student Entrant Year	four digit calendar year student first entered as transfer	4	59-62	DD61
Transfer Student Entrant Semester	semester code when student first entered as transfer	1	63	DD62
Filler	for expansion, always blank	37	64-100	

Elements in the TSS which have a relationship are Cumulative GPA and Cumulative Native Credit Hours Earned. The acceptable combinations and their meanings as related to certain student enrollment conditions are indicated in this table.

Cumulative Native Credit Hours

Cumulative GPA	0	>0			
blank	exclusively remedial exclusively auditor withdrew all courses	exclusively pass (P) in pass/fail courses			
0	failed all credit courses	exclusively pass/fail courses			
>0	INVALID	typical enrollment			

In order to clarify reporting requirements, the following example of reporting is provided. A 44 year old white woman transferred into UMCP from Montgomery College-Rockville in the Fall semester of 1991. She initially enrolled in the Sociology program. In UMCP, during academic year (AY) 1991-92, she earned 20 credit hours (5 in Spring semester); in AY 1992-93 she did not enroll; in AY 1993-94, she earned 30 credit hours (15 in Spring); and in AY 1994-95, she earned 15 credit hours (0 in Spring). She then earned a total of 65 credit hours at the end of the Fall semester, AY 1994-95. She graduated in the Spring semester of academic year 1994-95 with a GPA of 2.36 in the Psychology program.

Data Collection Year

Data Element	92	93	94	95	96
Coll. Year	1992	1993	1994	1995	1996
Coll. Period	9	9	9	9	9
FICE Rec. Inst.	002013	002103	002103	002103	002103
Sub-Campus	-	-	-	-	-
Id. Number 3	8H1878	38H1878	38H1878	38H1878	38H1878
Id. Type	-	-	-	•••	-
Race	5	5	5	5	5
Gender	2	2	2	2	2
Birth Year	1946	1946	1946	1946	1946
Prog. Tax.	220801	220801	220801	200101	200101
Spring Credit Hrs	. 5	0	15	0	0
Cum. Credit Hours	20	20	50	65	65
Cum. GPA	233	233	229	236	236
Grad. Year				1995	1995
FICE Send. Inst.	002082	002082	002082	002082	002082
Ent. Year	1991	1991	1991	1991	1991
Ent. Semester	2	2	2	2	2

Note: in above example, "-" means a blank and is shown for illustration purposes only. Do not fill fields with "-".

Even though this student graduated in the 1994-95 academic year, the data is repeated unchanged in the 1996 collection for the 1995-96 academic year. This repeating is necessary to maintain tracking of a fixed cohort for each entrant year over the five year reporting period. It should be noted that this student would not be found in the 1997 collection as the five year reporting period will have elapsed.

The system is designed to collect data on all transfer entrants to each 4-year institution over the preceding five year period. The reliance on the reporting institution as the basic data source can cause duplication in reporting. This happens when a student is not a traditional transfer who moves from a community college to a 4-year institution one time to complete his/her educational needs. Students whose enrollment moves back and forth from a community college to 4-year institutions could be duplicated as transfer entrant by each different 4-year institution in which the student enrolls. The following example explains this situation. A student has the following enrollment pattern: enrolled at PGCC for AY 1989-90; transferred to UMCP in AY 1990-91; went to AACC for AY 1991-92; then transferred to UMBC in AY 1992-93; and remained enrolled at UMBC in AY 1993-94 and AY 1994-95 when he/she graduated with a Bachelor's degree. Assuming the student earned 12 credit hours each year, this student could be reported as transfer entrants and traced by both UMCP and UMBC as shown below.

			Collection Years						
		90	91	92	93	94	95	96	97
Where	enrolled?	PGCC	UMCP	AACC	UMBC	UMBC	UMBC	-	-
UMCP		-	т	х	Х	Х	х	-	-
UMBC		-	-	-	т	С	G	Х	Х
	Note: i	n this	exampl	"T" "X" "C"	T C G X " means not reported " reporting as transfer entrants" " reported with cumulative credit hours and GPA unchand showing enrollment stop " reported with data changes showing continuing enrollments" " reported as graduated				anged s

A transfer student is not reported and traced twice when he/she re-enrolls at the same 4-year institution. This occurs when a student, after attending a community college and transferring to a 4-year institution, moves back to a community college for a period but then returns to the <u>same</u> 4-year institution. In this case, the student is traced as a transfer entrant only one time by the receiving 4-year institution. The first time a student is defined as a transfer entrant remains constant in the reporting for every year for the five year period.

In the case when a student may receive his/her bachelor's degree and returns to attend again in the same reporting period, the degree sought and taxonomy fields should reflect the bachelor's degree not any enrollment after it. In subsequent years (reporting periods) after receiving bachelor's degree, these two fields may reflect the current enrollment at the four-year institution.

The Commission provides a software distribution package to each institution for this system. The package consists of two components, processing and reporting (discussed in next section). The processing component consists of four software programs. The four programs and their major functions are:

XTSSXTR - extraction model This program is provided only as a template for the extraction program. This is the only program that must be

			written by the institution to access its data environment, do code conversions, and produce the TSS standard format file.
XTSSEDT	-	standard edit	The basic edit of the institution produced tape compared to the statewide TSS standards are performed by this program. A report for each student record in error is produced.
XTSSCON	-	consistency check	The current tape submission is compared to the previous year's submission. A report comparing the two submissions for consistency is produced.
XTSSTRF	-	tape preparation	This is a utility program which encrypts the SSN of students for subsequent transmission to the Commission. It can also be run to decode the SSN.

The XTSSEDT and XTSSCON are important programs that an institution must run to verify acceptable data quality. The edit reports from these two programs should be reviewed by the appropriate institution personnel who can assess data accuracy.

In order to meet the tape submission requirements, the institution is required to run only the processing components of the system to extract, edit, and prepare the file for submission to the Commission. This set of programs will provide the minimum level of data quality control required.

F. Institutional Reports

The Commission distributed software package provides several optional reporting programs. The programs provide institutions with the information on the students being submitted for three major purposes. First, the reports can be used to further assure that the data being submitted is correct. Secondly, the reports provide basic information for institution reporting needs. Third, the reports provide additional details from which further analysis can be made of statewide summaries. These optional reports are for institution use and should not be sent to the Commission

There is one optional report for the Transfer Student System. This report provides the ability to the institution to examine the performance of public community college transfer students at their institution. The report's major function is:

XTSSREP - performance report

This program provides a detail analysis of community

college transfer students and their academic performance. A report consisting of a set of tables is produced for each of the entrant year and semester cohort for the five year tracking period.

It is recommended that this program be utilized by the institution to support both detailed and case level analysis of the performance indicators used by the feedback data. Public community colleges are encouraged to contact your institution for further information or questions on the indicators provided by your institution.

G. Audit

The Commission does not routinely audit the TSS data submission. The Commission staff reserves the right to audit this data upon request to the institution. Because routine audits are not used, the institution must take extra care in the editing and review of the data.

V. Institution Procedures

A. Software Installation

The software installation for the TSS system requires six steps to be performed by data processing personnel at the institution. It is suggested that staff skilled in installing COBOL software packages, reading foreign tapes, and using system utilities to sort and print files be involved in this installation. The complete installation process (except for the writing of the extraction program) should be expected to take skilled staff 2-3 days. The TSS steps are:

- 1. account setup;
- installation/update tape loading;
- 3. software modification;
- 4. installation of one auxiliary system;
- 5. run command setup; and
- 6. software test.

The installation of the auxiliary system (Institutional Academic Program Inventory) is necessary to fully operate and maintain the TSS system. A separate manual is available for this system.

1. Account Setup

The institution should establish a single account (or directory unit) on its computer system for all MHEC distributed software. The use of this account will simplify procedures to maintain software provided by MHEC, provide organization to separate MHEC software, allow a place for the retention of files submitted to the Commission and permit implementation of installation security measures on both software and data files. It is suggested that within this account structure each Commission system be identified separately.

All files loaded onto the system can be renamed to meet institutional standards. The table in the next section can be completed to provide a cross reference to internal file names.

2. Installation/update Tape Loading

The TSS system is supplied on an open-reel computer tape in two different ways. If your institution has never received and installed TSS, you will receive an install tape. The complete instructions for the initial installation of TSS are contained in this manual. The second way TSS is supplied is through an update tape. This method is used to provide updates to your institution where TSS was previously installed. Each update tape contains only those system components that need to be modified. The update tape will upgrade the TSS system from the previous release to the current one. The update tape is described in the release update instructions that accompany the tape. These update instructions combined with the current manual provide the necessary information to update TSS.

The TSS install tape provides multiple files containing the source software, test files, and sample outputs. The following is a list of files on the tape, the file number and file characteristics. A fill-in blank is provided to enter the file names used at the institution.

		Fil	e Charac	teristics	Your
File Number			Record Length	Number Records	Assigned File Name
Mumber			<u>Derig en</u>	1000100	<u></u>
1	XTSSXTR	extract model prg 04/15/92	80	415	<u> </u>
3	XTSSSRT	student sort prg 06/01/92	80	117	
5	XTSSEDT	standards edit prg 05/01/93	80	2289	
7	XTSSCON	consistency chk pr 05/01/93	g 80	2751	
9	XTSSREP	performance rpt pr 05/01/93	g 80	1426	
11	XTSSTRF	tape transfer prg 04/15/92	80	564	
13	TTSSBAD	edit test file	100	63	
15	TTSSPRV	previous test file	100	62	
17	TTSSD	test file	100	62	
19	TTSSEDT	edit test sample	132	358	
21	TTSSCON	consistency test sample	132	254	
23	TTSSREP	performance test sample	132	144	<u></u>

The install tape is 1600 BPI, unlabelled, 9-track, open reel and contains multiple files. Each file is written on the installation tape twice, first in ASCII and then repeated in EBCDIC. All ASCII files are odd numbered and EBCDIC files are even numbered. File numbers shown above are for ASCII files. All files are fixed length and fixed block with a blocking factor of 1 (block size = physical block length = record length). The first six files on the tape contain source code for COBOL (ANSI-74) programs. The next three files (7-9) are test files containing data in TSS test format. The last three (files 10-12) are sample outputs from runs of the test files through programs and can be used to verify installed software. These files are 132 in length and do not contain pagination (carriage) control.

Each of the tape files should be copied using your system's standard file copy utility for foreign tapes. Contents of files can also be checked with a system utility after loading. If you have any problems reading the tape, please contact the Office of Information Systems of the Maryland Higher Education Commission.

3. Software Modification

The COBOL programs provided by MHEC, except for the extract model, must have installation specific modifications made to source code and then compiled/linked at the institution's computer facility by programmer support staff. The COBOL programs are ANSI-74 standard level and designed to be as portable as possible. If the procedures given here are followed and the program will not compile or execute properly, please call the MHEC Office of Information Systems for assistance.

The extract model is the only COBOL program that MUST BE WRITTEN by the institution's programmer support staff. The program on the tape, XTSSSXTR, is not a complete program and is provided to the institution only as an aid to its programming Because of the varying hardware platforms and variety of effort. student systems in operation at Maryland colleges and universities, the knowledge to extract specific data resides within each institution. It is this expertise that the institution and staff must provide to implement this system at its site. The extraction program must be developed to meet the Commission's system design format and collection requirements (see section IV. E and IV. C of this manual, respectively). These should be reviewed carefully by the institution staff prior to development of an extraction program. The overall objective is to extract the previous year's standard performance data. This data provides a mechanism to assess the success of academic preparation by community colleges.

There are several steps for programming staff to follow to install (compile/link) each of the other six pre-written programs:

- 1. You should <u>not</u> resequence the program statement numbers during its installation. Updates and patches will be supplied using the original MHEC numbers.
- 2. Any changes needed in the IDENTIFICATION DIVISION for your installation can be made. It is suggested that you supplement existing program lines and not replace them.
- 3. The OBJECT-COMPUTER paragraph of the ENVIRONMENT DIVISION can be changed as necessary for your installation.
- 4. The SPECIAL-NAMES paragraph of the ENVIRONMENT DIVISION contains the printer control for a new page. The function name TOP can be changed, if needed, to your system's proper name for advancing to the top of a new page.
- 5. In the FILE-CONTROL paragraph of the ENVIRONMENT DIVISION, the SELECT clause must be changed as necessary for your installation. Depending on your

system, file parameters can be placed within the SELECT clause, the FD (or SD) paragraph of the FILE SECTION or in your system command language. File parameters are given in the run command setup section later in this manual.

- 6. The FD (or SD) paragraphs of the DATA DIVISION FILE SECTION can be changed as necessary for your system. Any requirements for BLOCK CONTAINS, RECORDING MODE, LABEL or other institution specific clauses should be placed here.
- 7. In some institutions (typically IBM@), the files used for print output (FD LPRNT-FILE) must have additional changes made to this FD paragraph of the FILE SELECTION. First, change the RECORD CONTAINS to 133 CHARACTERS. Next, add a one-byte filler after the 01 LPRNT-REC statement. The resulting changed FD would appear as:

01	LPR	NT-REC.		
	02	FILLER	PIC	Х.
	02	PRINT-REC	PIC	X(132).

8. There is a part of WORKING-STORAGE section identified as INSTALLATION DATA. This area <u>must have several</u> <u>required changes made</u> as well as <u>some optional</u> institution specific ones. Programs will not operate correctly at your institution unless these changes are made. The data names and changes are as follows:

MARGIN-TOP	set to number of blank lines needed at top of page
MAX-LINES-PAGE	set to the maximum number of lines per page
INSTALLATION-NAME	enter and center your college's name
INSTALLATION-FICE	set to your college's FICE (see DD3)
INSTALLATION-SECTOR	set to describe your college as 1=public, 2=private
INSTALLATION-COLLEGE- TYPE	set to describe your college as 2=2-year, 4=4-year

4. Installation of Auxiliary Systems

The TSS system requires the presence of an auxiliary system. This system is the institution program inventory which

is your institution's part of the MHEC academic program inventory. This is used to edit program data supplied in the standard record and to obtain your institution's program titles for edit and reporting software. This program inventory system also contains a testing version of the program inventory file. This test version is used for all software tests in step 6.

This auxiliary system must be installed according to its system manual. A report program is provided as part of this system to allow institutions access to this data.

Once all software tests have been completed, the run setup commands must be altered to have all programs that access the program inventory use the actual program inventory file provided by MHEC. This reference to the actual file is then kept as part of the permanent run commands for the installed system.

5. Run Command Setup

In order to test the software and prepare for running the system each year, this section provides the proper setup information and running requirements to set up the necessary command language on your system. There are seven basic command sets, one for each program in the system. Each set of commands requires a program execution command and a file reference command for each file used by the program. Sort work files may require additional file commands for additional temporary work files. The print files would normally be directed to your spooled printer. They are all 133 characters in length, including the carriage control position. These command sequences can be combined into fewer steps depending on the needs and preferences of your college. The following table provides the setup information for all files (default SELECT assign name) used by each program. The MHEC file name used by the program is listed along with space for you to provide your institution assigned You must provide other system requirements on file file name. reference commands.

Program/File	Description	Input/ Output	File Size	Record Length
YOUR XTSSXTR INSTDB TSSXT	your extraction your student DB standard TSS	input output	? 12000	? 100
XTSSSRT TSSXT TSS TSSSORT	student sort unsorted TSS sorted TSS sort work	input output I/O	12000 12000 12000	100 100 100
XTSSEDT TSS PRINTER IPINV	standards edit sorted TSS edit report program inventory	input print input	12000 unlimited 500	100 133 80

XTSSCON		consistency check			
TSS		edited TSS	input	12000	100
TSSPREV		previous TSS	input	12000	100
PRINTER		consistency rpt.	print	unlimited	133
IPINV -		program inventory	input	500	80
TSSSORT		sort work	I/Ō	12000	100
XTSSREP		performance report			
TSS		edited TSS	input	12000	100
PRINTER -		performance rpt.	print	unlimited	133
IPINV -	<u></u>	program inventory	input	500	80
TSSSORT _		sort work	I/O	12000	100
XTSSTRF		transfer program			
TSS		edited TSS	input	12000	100
TSSMHEC _		MHEC file	output	12000	100

In the above table, defaults are given for certain file sizes. Your institution's TSS file may be smaller than the default and 12000 can be changed to a more appropriate number. The printer files are 132 characters in length plus one additional character for carriage control.

The student sort can be replaced by a system sort utility. If a utility is used, the TSS file must be sorted in ascending order on Identification Number (SSN) field in positions 13-21.

The file created by the transfer program should be sent to MHEC on tape. This file should be discarded after tape load. The edited TSS should be saved at your institution as it will be needed in the next year's process to do consistency check and for institution running of the optional report.

6. Software Test

Once the software has been compiled and the command setup is completed, the software can be tested using files on the install tape. The output generated by using the furnished test files can be compared to the test samples provided. The test samples do not have carriage control and therefore will not show pagination when printed. When comparing your output to the test sample ignore pagination. These test output files were generated at MHEC using the same test files provided on the installation tape.

The following table shows the run command setup for performing the testing step.

Software Testing Setup

Program/File	MHEC	Your	Comparison
	File Name	Assigned	File Name
	for Testing	File Name	for Output
XTSSEDT TSS	TTSSBAD		

PRINTER IPINV	output created TIPTEST	<u></u>	TTSSEDT
XTSSCON TSS TSSPREV PRINTER IPINV TSSSORT	TTSSD TTSSPRV output created TIPTEST work file		TTSSCON
XTSSREP TSS PRINTER IPINV TSSSORT	TTSSD output created TIPTEST work file		TTSSREP

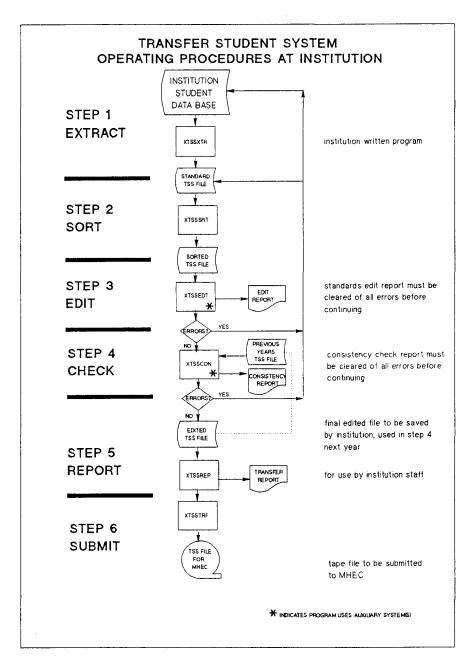
There are three test files provided with TSS. In order to properly run these tests, the programs tested must use the test version, TIPTEST, of the institution program inventory file instead of the actual institution program inventory. The first, TTSSBAD, contains a TSS file with erroneous records. It should be used to test the edit, XTSSEDT, and the output created compared to printed TTSSEDT file. The test files TTSSPRV (previous year TSS file) and TTSSD (current year edited file) should be used as input to the consistency check, XTSSCON. The output from this run should be compared to the test sample file The TSS test file, TTSSD, should be used to test the TTSSCON. performance report, XTSSREP, and the output compared to the test sample TTSSREP. If any of these comparisons show differences in the output besides pagination, please call the MHEC Office of Information Systems for assistance.

Remember to change any testing commands to point to production files after testing is complete.

B. Operating Procedures

The overall operation of the system starts with yearly extraction of the TSS data at the end of an institution's academic year (usually June or July). It is completed when the tape is created and submitted to MHEC. The optional reports can be run at any time depending on institution needs.

(figure next page)



Step 1 EXTRACT

The extract program, which is the only program required to be written by the institution's programming staff, must be run at the end of each academic year. The academic year is defined by the institution but usually ends after the spring semester. This means that the extract program must be run each year in the June/July period. All students who were entrants to 4-year institutions as transfer students from Maryland public community colleges during the preceding five academic years should be included. Once a student is defined as a transfer entrant, he/she will continue to be reported for five years regardless of current enrollment status. The extract program will access the institution's student data base, extract the prior year's data for this five-year transfer entrant pool, put this data into standard TSS format and save this standard TSS file.

While the remaining steps can be run at any time prior to submission of the data tape to the Commission, the extract must be run at the appropriate time each year to obtain the correct data and required time period.

Step 2 SORT

The next step is to process the standard TSS file produced by the extract by sorting of file into identification number order. This can be done by using the program provided or a system utility sort. If using a utility sort, the sort is on positions 13-21 in ascending order. This sorted file should be saved for the next step. The input file can be deleted or saved depending on institution's needs.

Step 3 EDIT

The sorted file is then used as input into the standards This program will edit the sorted TSS file to the edit program. system standards in this manual. It produces an edit report which should be reviewed by appropriate institution personnel responsible for the data being submitted. The edit report produced is in two parts: unit record edit and frequency distribution checks on basic data. The unit record part will This report shows several items indicate each record in error. for each erroneous record: record number in file, the identification number, type of error, data field in error and the error condition. The type of error is either WARNING or FATAL. WARNING means the data is suspicious but not necessarily incorrect. These errors should be checked for validity. The FATAL errors are unacceptable and must be corrected in the file. DO NOT PROCEED PAST EDIT STEP UNTIL ALL ERRORS AND DATA FREQUENCIES HAVE BEEN REVIEWED AND CORRECTED WHEN NECESSARY. The TSS file can be corrected by institution's use of either a system text editor to correct extracted standard TSS file or by correcting the institution's data base and rerunning the extract.

Step 4 CHECK

Once all errors have been resolved, the consistency check program can be run on the file that has passed the EDIT step. In order to function completely, this program requires both the current and prior year's (saved by institution) TSS files. Since for the first year there is no prior year's data, the program reports only one current year's data and cannot provide consistency checks to prior year's submission. The consistency report must be reviewed by appropriate institution staff responsible for the data being submitted. Any errors, whether displayed by program or found in the institution review, must be corrected and the process restarted in the same manner as the EDIT step. Upon completion of this step, the institution will have the edited TSS file ready for submission to MHEC (or to your segmental coordinator). IT IS THIS FILE THAT SHOULD BE PERMANENTLY SAVED BY THE INSTITUTION. It will be required for next year's consistency check (step 4), as backup to allow tape resubmission, and for the optional report programs in steps 5 and 6.

Step 5 REPORT

The report from the XTSSREP program provides detail information on the performance of each entrant year and semester transfer student cohort as of the end of the current reporting period. The final edited file is used by this program to produce the report. The report is a set of 4 pages of tables which provides the most current information on several performance indicators by each transfer cohort.

This report can also be used to check for errors that would not appear until data is analyzed and presented in detail breakdowns.

Step 6 SUBMIT

The final step in the system is the submission of a tape containing the TSS data to MHEC. The transfer program reads the final edited file and produces a copy of the institution's saved version with encrypted identification numbers. This encrypted file should be loaded on tape using the tape submission form requirements in Appendix C. The tape and the completed submission sheet must be sent together to MHEC. The tape submission form must be certified by the appropriate institution staff responsible for the data being submitted. This certification represents the institution's responsibility for the data.

VI. Appendices

Appendix A Data Dictionary , i

Data Dictionary Contents

Data Type	Data Element	Page	Reference
Identification			
	Collection Year		DD1
	Collection Period		DD2
	FICE		DD3
	Sub-campus Code		DD4
	Identification Number		DD5
	Identification Number Typ	pe	DD6
Demographics			
	Race/Ethnicity		DD20
	Gender		DD21
	Birth Year		DD22
Detail			
	Degree Sought		DD30
	Program Taxonomy	_	DD31
	Spring Credit Hours Earne	ed .	DD43
	Cumulative Native Credit Hours Earned		DD44
	Cumulative Grade Point Av	verage	2 DD52
	Bachelor's Graduation Yea	ir –	DD60
	Transfer Student Entrant	Year	DD61
	Transfer Student Entrant Semester		DD62

nce

ELEMENT TITLE:

Collection Year

DEFINITION: A collection cycle year (e.g. 1992) for data collected. The collection cycle year is the calendar year used to identify the data collection and is based on annual collection schedule.

FORMAT: numeric - 4 digits

CODES:

COMMENTS: Use the collection cycle year. For example, in the 1992 collection cycle data is collected
EIS - snapshot of 1992 fall semester
TSS - annual collection for 91-92 academic yr.
DIS - annual collection for 91-92 academic yr.
HGS - annual collection for 91-92 academic yr.
Some systems may use only 2 digit year, check system manual.

RELATED TO: Collection Period

GLOSSARY:

SYSTEMS: TSS,HGS,EIS,DIS,EDS,AGGR

SYSNAME: COLYR

DOCUMENTED: 1/10/77 Revised:

ELEMENT TITLE:

Collection Period

- DEFINITION: The period of collection of the data to distinguish different types and time periods.
- FORMAT: numeric 1 digit
- CODES: 1 = fall snapshot 9 = annual (academic year)
- COMMENTS: Fall snapshot freeze date is determined by the institution. This date must be after the end of the institution's official drop-add period for fall semester.

Annual period is for academic year which includes summer, fall and spring enrollment cycle.

EIS uses a 2 digit number "01".

GLOSSARY: academic year

- **RELATED TO:**
- SYSTEMS: TSS,HGS,EIS

SYSNAME: COLPD

DOCUMENTED: 1/10/77 Revised: 5/20/91

ELEMENT TITLE:

FICE

DEFINITION: A unique federal identification code for each institution. These are assigned by the U.S. Department of Education.

FORMAT: numeric - 6 digits

CODES: uses the Federal Interagency Committee on Education code for institutions see next page

COMMENTS:

RELATED TO:

GLOSSARY:

SYSTEMS: EIS, TSS, HGS, DIS, IPINV, EDS

SYSNAME: FICE

DOCUMENTED: 1/10/77 Revised: 5/10/93

FICE

002057	Allegany Community College
002058	Anne Arundel Community College
002061	Baltimore City Community College
031007	Carroll Community College
002063	Catonsville Community College
008308	Cecil Community College
002064	Charles County Community College
004650	Chesapeake College
009935	Dundalk Community College
002070	Essex Community College
002071	Frederick Community College
010014	Garrett Community College
002074	Hagerstown Junior College
002075	Harford Community College
008175	Howard Community College
002082	Montgomery College - Rockville
002081	Montgomery College - Takoma Park
029074	Montgomery College - Germantown
006911	Montgomery College - Central Admin.
002089	Prince George's Community College
020739	Wor-Wic Community College
002062	Bowie State University
002068	Coppin State College
002072	Frostburg State University
002091	Salisbury State University
002099	Towson State University
002102	University of Baltimore
002104	Univ. of MD - Baltimore City
002105	Univ. of MD - Baltimore County
002103	Univ. of MD - College Park
002106	Univ. of MD - Eastern Shore
011644	Univ. of MD - University College
007959	Univ. of MD - System Administration
002083	Morgan State University
002095	St. Mary's College of Maryland
002060	Baltimore Hebrew University

FICE

023148 Baltimore Int'l Culinary College 001436 Capitol College 002067 Columbia Union College 029192 Eastern Christian College 002073 Goucher College 007662 Hagerstown Business College * Harry Lundeberg School Seamanship 002076 Hood College 002077 Johns Hopkins University 002078 Loyola College 021551 Maryland College of Art & Design 002080 Maryland Institute College of Art 002086 Mount St. Mary's College 002087 Ner Israel Rabbinical College 002065 College of Notre Dame of Maryland 902077 Peabody Institute of the JHU * Potomac College-002092 St. John's College 002096 St. Mary's Seminary and University 021279 Sojourner-Douglass College 025784 *Traditional Acupuncture Institute 002107 Villa Julie College 001462 Washington Bible College 002108 Washington College 010065 Washington Theological Union 002109 Western Maryland College

* means no federal FICE assigned

ELEMENT TITLE:

Sub-campus Code

DEFINITION:	A code that allows a breakdown within institution or is used to classify students into groups. Usually an institution defined data element for its own needs.
FORMAT:	alphanumeric - 1 character
CODES:	blank = not used any letter or number = institution (or MHEC) assigned code
COMMENTS:	When necessary, MHEC may require certain institutional breakdown and use of this field.
RELATED TO:	
GLOSSARY:	
SYSTEMS:	EIS,TSS,HGS,DIS,EDS
SYSNAME:	SUBCAMP
DOCUMENTED:	1/10/77 Revised: 4/10/92

ELEMENT TITLE:

Identification Number

DEFINITION:	An encrypted version of the student's (or employee's) social security number using the MHEC encryption technique as provided by the institution. When actual SSN is not known, an encrypted version of an institution assigned 9-digit identification will be present.
FORMAT:	alphanumeric - 9 characters
CODES:	encrypted version is 7 alpha-numeric characters with 2 blanks at end of field
COMMENTS:	If assigned number is used, it should always remain unique for student at assigning institution. The Identification Number Type must be set to "2" in this case. EDS allows use of employee numbers that are not SSNs as long as the number remains constant for the employee every year. Some follow-up studies may use a student number that is not SSN based
	(bachelor's survey at independents).
RELATED TO:	Identification Number Type

GLOSSARY:

SYSTEMS: EIS,TSS,HGS,EDS,DIS,RTN

SYSNAME: IDN

DOCUMENTED: 1/10/77 Revised:

ELEMENT TITLE:

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Identification Number Type

DEFINITION:	An indicator that determines whether the identification number is based upon a valid social security number or an institution assigned substitute number in lieu of SSN.
FORMAT:	numeric - 1 digit - blank valid
CODES:	blank = valid social security number 2 = assigned identification number
COMMENTS:	Present in EIS and DIS but with additional code of 1 and 3 which also mean the same as blank.
RELATED TO:	Identification Number
GLOSSARY:	
SYSTEMS:	TSS,HGS,EIS,DIS
SYSNAME:	IDT
DOCUMENTED:	1/10/77 Revised: 9/1/95

ELEMENT TITLE:

Race/Ethnicity

DEFINITION: Categories used to describe groups to which individuals belong, identify with, or belong in the eyes of the community. The categories do not denote scientific definitions of anthropological origins. A person may be counted in only one group.

Resident aliens (holders of Form I-551/155), noncitizens who have been lawfully admitted for permanent residence are to be reported in the appropriate racial/ethnic categories along with United States citizens.

- FORMAT: numeric 1 digit
- CODES: 0 = Unknown 1 = African American (Black) 2 = Native American (Indian) 3 = Asian 4 = Hispanic 5 = White 6 = Foreign (in FDS 6 = All Ot
 - 6 = Foreign (in EDS 6 = All Other)
 - 7 = All Other (in EDS 7 not used)
- COMMENTS: In EDS, citizenship is used to determine foreign employees.
- RELATED TO: Citizenship (EDS)
- GLOSSARY: UNKNOWN, BLACK, INDIAN, ASIAN, HISPANIC, WHITE, FOREIGN, ALL OTHER, NATIVE AMERICAN, AFRICAN AMERICAN
- SYSTEMS: EIS,TSS,HGS,DIS,EDS,AGGR,RTN
- SYSNAME: RACE
- DOCUMENTED: 1/10/77 Revised: 4/20/92

ELEMENT TITLE:

Gender

- DEFINITION: The gender of student as recorded by the institution. Individuals missing this information must be assigned a gender.
- FORMAT: numeric 1 digit
- CODES: 1 = Male 2 = Female 3 = Unknown, male assigned 4 = Unknown, female assigned
- COMMENTS: Students missing gender should be assigned evenly between codes 3 and 4 by the institution.

RELATED TO:

GLOSSARY:

- SYSTEMS: EIS,TSS,HGS,DIS,EDS,RTN,AGGR
- SYSNAME: SEX

DOCUMENTED: 1/10/77 Revised:

ELEMENT TITLE:

Birth Year

- DEFINITION: An individual's year of birth (e.g. 1940) as designated on legal birth registration or certificate.
- FORMAT: numeric 4 digits blank valid
- CODES: blank = unknown
- COMMENTS: collection year birth year = individual's age
- RELATED TO: Birth Year Qualifier (AGGR)

GLOSSARY:

- SYSTEMS: EIS, TSS, EDS, RTN, AGGR
- SYSNAME: BIRTHYR
- DOCUMENTED: 1/10/77 Revised: 3/5/91

ELEMENT TITLE:

Degree Sought

DEFINITION:	The student's most recent status in pursuing a formal award indicating either the level of degree being sought or non-degree seeking. This is the 2009 standard.
FORMAT:	numeric - 2 digit
CODES:	00 = unknown 01 = private career school diploma/certificate undergraduate 10 = lower division certificate 20 = associate 30 = upper division certificate 40 = bachelors 47 = non-degree undergraduate 50 = post-baccalaureate certificate 60 = masters 70 = certificate of advanced study 81 = doctorate research/scholarship 85 = doctorate professional practice 86 = doctorate other 87 = non-degree graduate first-professional 90 = first-professional certificate 97 = non-degree first-professional 99 = multi-major (DIS only)
COMMENTS:	This code used in degree sought varies between different MHEC reporting systems prior to 2009. Please review the system manual to determine correct coding or refer to DD30.1.
RELATED TO: GLOSSARY:	Program Taxonomy code, together make up academic program code FORMAL AWARD, NON-DEGREE SEEKING, DEGREE SEEKING, ASSOCIATE, BACHELORS, FIRST-PROFESSIONAL, LOWER DIVISION CERTIFICATE, UPPER DIVISION CERTIFICATE, POST- BACCALAUREATE CERTIFICATE, CERTIFICATE OF ADVANCED STUDY, DOCTORATE RESEARCH/SCHOLARSHIP, DOCTORATE PROFESSIONAL PRACTICE, DOCTORATE OTHER, PRIVATE CAREER SCHOOL/DIPLOMA/CERTIFICATE
SYSTEMS:	EIS, DIS, FAIS, HGS,TSS
SYSNAME:	DEGREE
DOCUMENTED:	1/10/77 Revised: 1/30/09 -DD30-

Comparison of the degree sought field coding up to the 2009 collection which is prior to the 2010 revisions starting in 2009.

Degree Sought	OLD EIS from inst. prior 09	OLD DIS from inst. prior 09	TSS and HGS from inst. unchanged	NEW for all starting in 2009
Unknown	00	00	00	00
Lower Division Certificate	01	01	10	10
Associate	02	02	20	20
Upper Division Certificate	07	07	30	30
Bachelors	03	03	40	40
Non-Degree undergrad	10	n/a	47	47
Post- Baccalaureate Certificate	08	08	50	50
Masters	04	04	60	60
Certificate of Advance Study	12	09	n/a	70
Doctorate (OLD single category)	05	05	n/a	n/a
Doctorate (research and scholarship)	n/a	n/a	n/a	81
Doctorate (professional practice)	n/a	n/a	n/a	85
Doctorate (other)	n/a	n/a	n/a	86
Non-degree graduate	11	n/a	n/a	87
First-Professional	06	06	n/a	n/a
First-Professional Certificate	09	10	n/a	n/a
Non-degree first- professional	n/a	n/a	n/a	n/a
Multiple majors	n/a	99	n/a	99

ELEMENT TITLE:

Program Taxonomy

DEFINITION: The MHEC taxonomy for the most recent instructional program area of the student. FORMAT: alphanumeric - 8 digits CODES: published periodically in the Academic Programs at Maryland Colleges and Universities or contact MHEC for current listing 909901 - = undeclared, undecided or unknown COMMENTS: Special reporting category exemptions to the academic program code inventory may be granted in writing by MHEC. The taxonomy is based upon the HEGIS classification system with Maryland's unique alterations. First two digits are called the major discipline (MAJORDS). The first four digits are called the discipline (DISCPLN). The program taxonomy code is 8 characters. Older systems (such as EIS and DIS) use only the first 6 characters. This is possible since the last two (positions 7 and 8 of code) are currently always blank and are for future expansion. **RELATED TO:** Degree Sought, together make up the academic program code **GLOSSARY:** SYSTEMS: EIS, TSS, HGS, DIS, RTN, PINV, IPINV, EDS, AGGR SYSNAME: PROGRAM DOCUMENTED: 5/7/80 Revised: 3/31/95

Major Disciplines Disciplines

SECTION I - Conventional Academic Subdivisions of Knowledge and Training

Code starts with

01 AGRICULTURE and NATURAL RESOURCES

- 0101 AGRICULTURE, GENERAL
- 0102 AGRONOMY
- 0103 SOILS SCIENCE
- 0104 ANIMAL SCIENCE
- 0105 DAIRY SCIENCE
- 0106 POULTRY SCIENCE
- 0107 FISH, GAME, AND WILDLIFE MANAGEMENT
- 0108 HORTICULTURE
- 0109 ORNAMENTAL HORTICULTURE
- 0110 AGRICULTURAL AND FARM MANAGEMENT
- 0111 AGRICULTURAL ECONOMICS
- 0112 AGRICULTURAL BUSINESS
- 0113 FOOD SCIENCE AND TECHNOLOGY
- 0114 FORESTRY
- 0115 NATURAL RESOURCES MANAGEMENT
- 0116 AGRICULTURE AND FORESTRY TECHNOLOGIES
- 0117 RANGE MANAGEMENT
- 0199 OTHER, AGRICULTURE AND NATURAL SCIENCES
- 02 ARCHITECTURE and ENVIRONMENTAL DESIGN
 - 0201 ENVIRONMENTAL DESIGN, GENERAL
 - 0202 ARCHITECTURE
 - 0203 INTERIOR DESIGN
 - 0204 LANDSCAPE ARCHITECTURE
 - 0205 URBAN ARCHITECTURE
 - 0206 CITY, COMMUNITY, AND REGIONAL PLANNING
 - 0299 OTHER, ARCHITECTURE AND ENVIRONMENTAL DESIGN
- 03 AREA STUDIES
 - 0301 ASIAN STUDIES, GENERAL
 - 0302 EAST ASIAN STUDIES
 - 0303 SOUTH ASIAN STUDIES
 - 0304 SOUTHEAST ASIAN STUDIES
 - 0305 AFRICAN STUDIES
 - 0306 ISLAMIC STUDIES
 - 0307 RUSSIAN AND SLAVIC STUDIES
 - 0308 LATIN AMERICAN STUDIES
 - 0309 MIDDLE EASTERN STUDIES
 - 0310 EUROPEAN STUDIES, GENERAL
 - 0311 EASTERN EUROPEAN STUDIES
 - 0312 WEST EUROPEAN STUDIES
 - 0313 AMERICAN STUDIES

•		•
	0314	PACIFIC AREA STUDIES
	0399	OTHER, AREA STUDIES
04	BIOL	OGICAL SCIENCES
	0401	BIOLOGY, GENERAL
		BOTANY, GENERAL
	0403	BACTERIOLOGY
		PLANT PATHOLOGY
	-	PLANT PHARMACOLOGY
		PLANT PHYSIOLOGY
		ZOOLOGY, GENERAL
	0408	
	0409	· · · · · · · · · · · · · · · · · · ·
	0410	· · · ·
		MICROBIOLOGY
		ANATOMY
		HISTOLOGY
		BIOCHEMISTRY
		BIOPHYSICS
		MOLECULAR BIOLOGY
		CELL BIOLOGY
		MARINE BIOLOGY
		BIOMETRICS AND BIOSTATISTICS
		ECOLOGY
		ENTOMOLOGY
		GENETICS
		RADIOBIOLOGY
		NUTRITION, SCIENTIFIC
	0425	
		TOXICOLOGY
		EMBRYOLOGY
	0499	OTHER, BIOLOGICAL SCIENCES
05		NESS and MANAGEMENT
	0501	BUSINESS AND COMMERCE, GENERAL
		ACCOUNTING
		BUSINESS STATISTICS
		BANKING AND FINANCE
		INVESTMENTS AND SECURITIES
	0506	
	0507	• • • • • • • • • • • • • • • • • • • •
		HOTEL AND RESTAURANT MANAGEMENT
	0509	
	0510	TRANSPORTATION AND PUBLIC UTILITIES
	0511	REAL ESTATE
		INSURANCE
		INTERNATIONAL BUSINESS
	0514	SECRETARIAL STUDIES
	0515	PERSONNEL MANAGEMENT

0515 PERSONNEL MANAGEMENT

- 0516 LABOR AND INDUSTRIAL RELATIONS
- 0517 BUSINESS ECONOMICS
- 0599 OTHER, BUSINESS AND MANAGEMENT
- 06 COMMUNICATIONS
 - 0601 COMMUNICATIONS, GENERAL
 - 0602 JOURNALISM
 - 0603 RADIO.TELEVISION
 - 0604 ADVERTISING
 - 0605 COMMUNICATION MEDIA
 - 0699 OTHER, COMMUNICATIONS
- 07 COMPUTER and INFORMATION SCIENCES
 - 0701 COMPUTER AND INFORMATION SCIENCES, GENERAL
 - 0702 INFORMATION SCIENCES AND SYSTEMS
 - 0703 DATA PROCESSING
 - 0704 COMPUTER PROGRAMMING
 - 0705 SYSTEMS ANALYSIS
 - 0799 OTHER, COMPUTER AND INFORMATION SYSTEMS
- 08 EDUCATION
 - 0801 EDUCATION, GENERAL
 - 0802 ELEMENTARY EDUCATION, GENERAL
 - 0803 SECONDARY EDUCATION, GENERAL
 - 0804 JUNIOR HIGH SCHOOL EDUCATION
 - 0805 HIGHER EDUCATION, GENERAL
 - 0806 JUNIOR AND COMMUNITY COLLEGE EDUCATION
 - 0807 ADULT AND CONTINUING EDUCATION
 - 0808 SPECIAL EDUCATION, GENERAL
 - 0809 ADMINISTRATION OF SPECIAL EDUCATION
 - 0810 EDUCATION OF THE MENTALLY RETARDED
 - 0811 EDUCATION OF THE GIFTED
 - 0812 EDUCATION OF THE DEAF
 - 0813 EDUCATION OF THE CULTURALLY DISADVANTAGED
 - 0814 EDUCATION OF THE VISUALLY HANDICAPPED
 - 0815 SPEECH CORRECTION
 - 0816 EDUCATION OF THE EMOTIONALLY DISTURBED
 - 0817 REMEDIAL EDUCATION
 - 0818 SPECIAL LEARNING DISABILITIES
 - 0819 EDUCATION OF THE PHYSICALLY HANDICAPPED
 - 0820 EDUCATION OF THE MULTIPLE HANDICAPPED
 - 0821 SOCIAL FOUNDATIONS
 - 0822 EDUCATIONAL PSYCHOLOGY
 - 0823 PRE-ELEMENTARY EDUCATION
 - 0824 EDUCATIONAL STATISTICS AND RESEARCH
 - 0825 EDUCATIONAL TESTING, EVAL AND MEASUREMENT
 - 0826 STUDENT PERSONNEL
 - 0827 EDUCATIONAL ADMINISTRATION
 - 0828 EDUCATIONAL SUPERVISION
 - 0829 CURRICULUM AND INSTRUCTION

- 0830 READING EDUCATION
- 0831 ART EDUCATION
- 0832 MUSIC EDUCATION
- 0833 MATHEMATICS EDUCATION
- 0834 SCIENCE EDUCATION
- 0835 PHYSICAL EDUCATION
- 0836 DRIVER AND SAFETY EDUCATION
- 0837 HEALTH EDUCATION
- 0838 BUSINESS, COMMERCE, AND DISTRIBUTIVE EDUC
- 0839 INDUSTRIAL ARTS, VOCATIONAL, AND TECH EDUC
- 0899 OTHER, EDUCATION

09 ENGINEERING

- 0901 ENGINEERING, GENERAL
- 0902 AEROSPACE, AERONAUTICAL AND ASTRONAUT ENG
- 0903 AGRICULTURAL ENGINEERING
- 0904 ARCHITECTURAL ENGINEERING
- 0905 BIOENGINEERING AND BIOMEDICAL ENGINEERING
- 0906 CHEMICAL ENGINEERING
- 0907 PETROLEUM ENGINEERING
- 0908 CIVIL, CONSTRUCTION, AND TRANSPORTATION ENG
- 0909 ELECTRICAL, ELECTRONICS, AND COMMUNICATIONS
- 0910 MECHANICAL ENGINEERING
- 0911 GEOLOGICAL ENGINEERING
- 0912 GEOPHYSICAL ENGINEERING
- 0913 INDUSTRIAL AND MANAGEMENT ENGINEERING
- 0914 METALLURGICAL ENGINEERING
- 0915 MATERIALS ENGINEERING
- 0916 CERAMIC ENGINEERING
- 0917 TEXTILE ENGINEERING
- 0918 MINING AND MINERAL ENGINEERING
- 0919 ENGINEERING PHYSICS
- 0920 NUCLEAR ENGINEERING
- 0921 ENGINEERING MECHANICS
- 0922 ENVIRONMENTAL AND SANITARY ENGINEERING
- 0923 NAVAL ARCHITECTURE AND MARINE ENGINEERING
- 0924 OCEAN ENGINEERING
- 0925 ENGINEERING TECHNOLOGIES
- 0999 OTHER, ENGINEERING
- 10 FINE and APPLIED ARTS
 - 1001 FINE ARTS, GENERAL
 - 1002 ART
 - 1003 ART HISTORY AND APPRECIATION
 - 1004 MUSIC PERFORMING AND COMPOSITION
 - 1005 MUSIC ARTS
 - 1006 MUSIC HISTORY AND APPRECIATION
 - 1007 DRAMATIC ARTS
 - 1008 DANCE

- 1009 APPLIED DESIGN
- 1010 CINEMATOGRAPHY
- 1011 PHOTOGRAPHY
- 1099 OTHER, FINE AND APPLIED ARTS
- 11 FOREIGN LANGUAGES
 - 1101 FOREIGN LANGUAGES, GENERAL
 - 1102 FRENCH
 - 1103 GERMAN
 - 1104 ITALIAN
 - 1105 SPANISH
 - 1106 RUSSIAN
 - 1107 CHINESE
 - 1108 JAPANESE
 - 1109 LATIN
 - 1110 GREEK, CLASSICAL
 - 1111 HEBREW
 - 1112 ARABIC
 - 1113 INDIAN (ASIATIC)
 - 1114 SCANDINAVIAN LANGUAGES
 - 1115 SLAVIC LANGUAGES
 - 1116 AFRICAN LANGUAGES
 - 1199 OTHER, FOREIGN LANGUAGES
- 12 HEALTH PROFESSIONS
 - 1201 HEALTH PROFESSIONS, GENERAL
 - 1202 HOSPITAL AND HEALTH CARE ADMINISTRATION
 - 1203 NURSING
 - 1204 DENTISTRY, DDS OR DMD DEGREE
 - 1205 DENTAL SPECIALTIES
 - 1206 MEDICINE, MD DEGREE
 - 1207 MEDICAL SPECIALTIES
 - 1208 OCCUPATIONAL THERAPY
 - 1209 OPTOMETRY
 - 1210 OSTEOPATHIC MEDICINE, DO DEGREE
 - 1211 PHARMACY
 - 1212 PHYSICAL THERAPY
 - 1213 DENTAL HYGIENE
 - 1214 PUBLIC HEALTH
 - 1215 MEDICAL RECORD LIBRARIANSHIP
 - 1216 PODIATRY OR PODIATRIC MEDICINE
 - 1217 BIOMEDICAL COMMUNICATION
 - 1218 VETERINARY MEDICINE
 - 1219 VETERINARY MEDICINE SPECIALTIES
 - 1220 SPEECH PATHOLOGY AND AUDIOLOGY
 - 1221 CHIROPRACTIC
 - 1222 CLINICAL SOCIAL WORK
 - 1223 MEDICAL LABORATORY TECHNOLOGIES
 - 1224 DENTAL TECHNOLOGIES

- 1225 RADIOLOGIC TECHNOLOGIES
- 1299 OTHER, HEALTH PROFESSIONS
- 13 HOME ECONOMICS
 - 1301 HOME ECONOMICS, GENERAL
 - 1302 HOME DECORATION AND HOME EQUIPMENT
 - 1303 CLOTHING AND TEXTILE
 - 1304 CONSUMER ECONOMICS AND HOME MANAGEMENT
 - 1305 FAMILY RELATIONS AND CHILD DEVELOPMENT
 - 1306 FOODS AND NUTRITION
 - 1307 INSTITUTIONAL MANAGEMENT AND CAFETERIA MGT
 - 1399 OTHER, HOME ECONOMICS
- 14 LAW
 - 1401 LAW, GENERAL
 - 1499 OTHER, LAW
- 15 LETTERS
 - 1501 ENGLISH, GENERAL
 - 1502 LITERATURE, ENGLISH
 - **1503 COMPARATIVE LITERATURE**
 - 1504 CLASSICS
 - 1505 LINGUISTICS
 - 1506 SPEECH, DEBATE, AND FORENSIC SCIENCE
 - 1507 CREATIVE WRITING
 - 1508 TEACHING ENGLISH AS FOREIGN LANGUAGE
 - 1509 PHILOSOPHY
 - 1510 RELIGIOUS STUDIES
 - 1599 OTHER, LETTERS
- 16 LIBRARY SCIENCE
 - 1601 LIBRARY SCIENCE, GENERAL
 - 1699 OTHER, LIBRARY SCIENCE
- 17 MATHEMATICS
 - 1701 MATHEMATICS, GENERAL
 - 1702 STATISTICS, MATHEMATICAL AND THEORETICAL
 - 1703 APPLIED MATHEMATICS
 - 1799 OTHER, MATHEMATICS
- 18 MILITARY SCIENCES
 - 1801 MILITARY SCIENCE
 - 1802 NAVAL SCIENCE
 - 1803 AEROSPACE SCIENCE
 - 1899 OTHER, MILITARY SCIENCE
- **19 PHYSICAL SCIENCES**
 - 1901 PHYSICAL SCIENCES, GENERAL
 - 1902 PHYSICS, GENERAL
 - 1903 MOLECULAR PHYSICS
 - 1904 NUCLEAR PHYSICS
 - 1905 CHEMISTRY, GENERAL
 - 1906 INORGANIC CHEMISTRY
 - 1907 ORGANIC CHEMISTRY

Program Taxonomy

- 1908 PHYSICAL CHEMISTRY
- 1909 ANALYTICAL CHEMISTRY
- 1910 PHARMACEUTICAL CHEMISTRY
- 1911 ASTRONOMY
- 1912 ASTROPHYSICS
- 1913 ATMOSPHERIC SCIENCES AND METEOROLOGY
- 1914 GEOLOGY
- 1915 GEOCHEMISTRY
- 1916 GEOPHYSICS AND SEISMOLOGY
- 1917 EARTH SCIENCES, GENERAL
- 1918 PALEONTOLOGY
- 1919 OCEANOGRAPHY
- 1920 METALLURGY
- 1999 OTHER, PHYSICAL SCIENCES
- 20 PSYCHOLOGY
 - 2001 PSYCHOLOGY, GENERAL
 - 2002 EXPERIMENTAL PSYCHOLOGY
 - 2003 CLINICAL PSYCHOLOGY
 - 2004 PSYCHOLOGY FOR COUNSELING
 - 2005 SOCIAL PSYCHOLOGY
 - 2006 PSYCHOMETRICS
 - 2007 STATISTICS IN PSYCHOLOGY
 - 2008 INDUSTRIAL PSYCHOLOGY
 - 2009 DEVELOPMENTAL PSYCHOLOGY
 - 2010 PHYSIOLOGICAL PSYCHOLOGY
 - 2099 OTHER, PSYCHOLOGY
- 21 PUBLIC AFFAIRS and SERVICES
 - 2101 COMMUNITY SERVICES, GENERAL
 - 2012 PUBLIC ADMINISTRATION
 - 2103 PARKS AND RECREATION MANAGEMENT
 - 2104 SOCIAL WORK AND HELPING SERVICES
 - 2105 LAW ENFORCEMENT AND CORRECTIONS
 - 2106 INTERNATIONAL PUBLIC SERVICE
 - 2199 OTHER, PUBLIC AFFAIRS AND SERVICES
- 22 SOCIAL SCIENCES
 - 2201 SOCIAL SCIENCES, GENERAL
 - 2202 ANTHROPOLOGY
 - 2203 ARCHAEOLOGY
 - 2204 ECONOMICS
 - 2205 HISTORY
 - 2206 GEOGRAPHY
 - 2207 POLITICAL SCIENCE AND GOVERNMENT
 - 2208 SOCIOLOGY
 - 2209 CRIMINOLOGY
 - 2210 INTERNATIONAL RELATIONS
 - 2211 AFRO-AMERICAN STUDIES
 - 2212 AMERICAN INDIAN CULTURAL STUDIES

Program Taxonomy

- 2213 MEXICAN-AMERICAN CULTURAL STUDIES
- 2214 URBAN STUDIES
- 2215 DEMOGRAPHY
- 2299 OTHER, SOCIAL SCIENCES
- 23 THEOLOGY
 - 2301 THEOLOGICAL PROFESSIONS, GENERAL
 - 2302 RELIGIOUS MUSIC
 - 2304 RELIGIOUS EDUCATION
 - 2399 OTHER, THEOLOGY
- 49 INTERDISCIPLINARY STUDIES and COMMUNITY COLLEGE TRANSFER PROGRAMS
 - 4901 GENERAL LIBERAL ARTS AND SCIENCES
 - 4902 BIOLOGICAL AND PHYSICAL SCIENCES
 - 4903 HUMANITIES AND SOCIAL SCIENCES
 - 4904 ENGINEERING AND OTHER DISCIPLINES
 - 4910 ARTS AND SCIENCES TRANSFER
 - 4920 BIOLOGICAL SCIENCES TRANSFER
 - 4930 HUMANITIES AND SOCIAL SCIENCE TRANSFER
 - 4940 ENGINEERING TRANSFER
 - 4950 GENERAL STUDIES TRANSFER
 - 4960 TEACHER EDUCATION TRANSFER
 - 4970 BUSINESS ADMINISTRATION TRANSFER
 - 4980 COMPUTER SCIENCE TRANSFER
 - 4999 OTHER, INTERDISCIPLINARY/TRANSFER STUDIES

SECTION II -Technological and Occupational Specialties Related to Curriculums Leading to Associate Degrees and Lower Division Certificates

Code starts with

52

- 50 BUSINESS and COMMERCE TECHNOLOGIES
 - 5001 BUSINESS AND COMMERCE TECHNOLOGIES, GENERAL
 - 5002 ACCOUNTING TECHNOLOGIES
 - 5003 BANKING AND FINANCE TECHNOLOGIES
 - 5004 MARKETING, DISTRIB, PURCH, BUSINESS TECH
 - 5005 SECRETARIAL TECHNOLOGIES
 - 5006 PERSONAL SERVICE TECHNOLOGIES
 - 5007 PHOTOGRAPHY TECHNOLOGIES
 - 5008 COMMUNICATIONS AND BROADCASTING TECHNOLOGIES
 - 5009 PRINTING AND LITHOGRAPHY TECHNOLOGIES
 - 5010 HOTEL AND RESTAURANT MANAGEMENT TECHNOLOGIES
 - 5011 TRANSPORTATION AND PUBLIC UTIL TECHNOLOGIES
 - 5012 APPLIED ARTS, GRAPHIC ARTS, FINE ARTS TECH
 - 5099 OTHER, BUSINESS AND COMMERCE TECHNOLOGIES
- 51 DATA PROCESSING TECHNOLOGIES
 - 5101 DATA PROCESSING TECHNOLOGIES, GENERAL
 - 5102 KEY PUNCH OPERATOR AND OTHER INPUT PREP
 - 5103 COMPUTER PROGRAMMER TECHNOLOGIES
 - 5104 COMPUTER OPERATOR AND PERIPHERAL EQUIPMENT
 - 5105 DATA PROCESSING EQUIPMENT MAINTENANCE
 - 5199 OTHER, DATA PROCESSING TECHNOLOGIES
 - HEALTH SERVICES and PARAMEDICAL TECHNOLOGIES
 - 5201 HEALTH SERVICES ASSISTANT
 - 5202 DENTAL ASSISTANT TECHNOLOGIES
 - 5203 DENTAL HYGIENE TECHNOLOGIES
 - 5204 DENTAL LABORATORY TECHNOLOGIES
 - 5205 MEDICAL OR BIOLOGICAL LABORATORY ASSISTANCE
 - 5206 ANIMAL LABORATORY ASSISTANT TECHNOLOGIES
 - 5207 RADIOLOGIC TECHNOLOGIES
 - 5208 NURSING, RN
 - 5209 NURSING, PRACTICAL
 - 5210 OCCUPATIONAL THERAPY TECHNOLOGIES
 - 5211 SURGICAL TECHNOLOGIES
 - 5212 OPTICAL TECHNOLOGIES
 - 5213 MEDICAL RECORD TECHNOLOGIES
 - 5214 MEDICAL ASSISTANT AND MEDICAL OFFICE ASSIST
 - 5215 INHALATION THERAPY TECHNOLOGIES
 - 5216 PSYCHIATRIC TECHNOLOGIES
 - 5217 ELECTRO DIAGNOSTIC TECHNOLOGIES
 - 5218 INSTITUTIONAL MGT TECH, (REST HOME, ETC)
 - 5219 PHYSICAL THERAPY TECHNOLOGIES
 - 5299 OTHER, HEALTH SERVICES AND PARAMEDICAL TECH

Program Taxonomy

- 53 MECHANICAL and ENGINEERING TECHNOLOGIES
 - 5301 MECHANICAL AND ENGINEERING TECH, GENERAL
 - 5302 AERONAUTICAL AND AVIATION TECHNOLOGIES
 - 5303 ENGINEERING GRAPHICS
 - 5304 ARCHITECTURAL DRAFTING TECHNOLOGIES
 - 5305 CHEMICAL TECHNOLOGIES
 - 5306 AUTOMOTIVE TECHNOLOGIES
 - 5307 DIESEL TECHNOLOGIES
 - 5308 WELDING TECHNOLOGIES
 - 5309 CIVIL TECHNOLOGIES
 - 5310 ELECTRONICS AND MACHINE TECHNOLOGIES
 - 5311 ELECTROMECHANICAL TECHNOLOGIES
 - 5312 INDUSTRIAL TECHNOLOGIES
 - 5313 TEXTILE TECHNOLOGIES
 - 5314 INSTRUMENTATION TECHNOLOGIES
 - 5315 MECHANICAL TECHNOLOGIES
 - 5316 NUCLEAR TECHNOLOGIES
 - 5317 CONSTRUCTION AND BUILDING TECHNOLOGIES
 - 5399 OTHER, MECHANICAL AND ENGINEERING TECH
- 54 NATURAL SCIENCE TECHNOLOGIES
 - 5401 NATURAL SCIENCE TECHNOLOGIES, GENERAL
 - 5402 AGRICULTURE TECHNOLOGIES
 - 5403 FORESTRY AND WILDLIFE TECHNOLOGIES
 - 5404 FOOD SERVICES TECHNOLOGIES
 - 5405 HOME ECONOMICS TECHNOLOGIES
 - 5406 MARINE AND OCEANOGRAPHIC TECHNOLOGIES
 - 5407 LABORATORY TECHNOLOGIES, GENERAL
 - 5408 SANITATION AND PUB HEALTH INSPECTION TECH
 - 5499 OTHER, NATURAL SCIENCE TECHNOLOGIES
- 55 PUBLIC SERVICE RELATED TECHNOLOGIES
 - 5501 PUBLIC SERVICE TECHNOLOGIES, GENERAL
 - 5502 BIBLE STUDY OR RELIGION-RELATED OCCUPATIONS
 - 5503 EDUCATION TECHNOLOGIES
 - 5504 LIBRARY ASSISTANT TECHNOLOGIES
 - 5505 POLICE, LAW ENFORCEMENT, CORRECTIONS TECH
 - 5506 RECREATION AND SOCIAL WORK RELATED TECH
 - 5507 FIRE CONTROL TECHNOLOGY
 - 5508 PUBLIC ADMINISTRATION AND MANAGEMENT TECH
 - 5599 OTHER, PUBLIC SERVICE RELATED TECHNOLOGIES
- 56 DIRECTED TECHNOLOGY
 - 5601 DIRECTED TECHNOLOGY

SECTION III - Miscellaneous

Code starts with

90 UNDECLARED, UNDECIDED, OR UNKNOWN 9099 UNDECIDED, UNDECLARED, UNKNOWN

ELEMENT TITLE:

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Spring Credit Hours Earned

DEFINITION:	The number of credit hours completed during the spring semester of the collection period at a grade level satisfactory for degree requirements.			
FORMAT:	numeric - 3 digits - implied decimal 99V9			
CODES:				
COMMENTS:	In the TSS, this is for the spring of the reporting year. Only the first time (first year) a transfer entrant is reported can this data be used with cumulative native credit hours earned to provide spring/fall semester breakdown.			
RELATED TO:	Spring Credit Hours Attempted			
GLOSSARY:	CREDIT HOURS			
SYSTEMS:	TSS			
SYSNAME:	SCRHRE			
DOCUMENTED:	3/5/91 Revised: 6/23/92			

ELEMENT TITLE:

Cumulative Native Credit Hours Earned

- DEFINITION: The current number of credit hours completed in credit courses at the reporting institution (excluding transfer credits) as of the collection period at a grade level satisfactory for degree requirements.
- FORMAT: numeric 4 digits implied decimal 999V9
- CODES: minimum value zero
- COMMENTS: These are only those credit hours earned at reporting institution. Transfer credit hours, regardless of their status, should not be included. Remedial courses should not be included.
- RELATED TO: Fall Credit Hours Attempted, Fall Student Level, First-Time Flag
- GLOSSARY: CREDIT HOURS, CREDIT COURSE
- SYSTEMS: TSS,HGS
- SYSNAME: CNCRHRE
- DOCUMENTED: 6/3/91 Revised: 4/10/92

ELEMENT TITLE:

Cumulative Grade Point Average

- DEFINITION: The student's grade point average (as defined by the institution) as of the end of the collection period.
- FORMAT: numeric 3 digits implied decimal 9V99, blank valid
- CODES: blank = not applicable
- COMMENTS: Based upon a four-point system. Cumulative Grade Point Average is blank when the student has none available (e.g. taken only remedial courses, taken only pass/fail courses, had all incompletes, exclusively auditors or withdrawn from all courses). If the field is zero-filled, this is interpreted to mean the student has a zero cumulative GPA (i.e. failed all courses attempted).
- RELATED TO: Cumulative Native Credit Hours Earned
- GLOSSARY:
- SYSTEMS: TSS,HGS
- SYSNAME: CUMGPA
- DOCUMENTED: 3/5/91 Revised: 5/01/93

ELEMENT TITLE:

Bachelor's Graduation Year

DEFINITION:	The calendar year used to indicate when a student has graduated from a 4-year institution and received a Bachelor's degree.					
FORMAT:	numeric - 4 digits, blanks valid					
CODES:	4 digit year = graduation calendar year blank = not graduated					
COMMENTS:						
RELATED TO:						
GLOSSARY:						
SYSTEMS:	TSS					
SYSNAME:	BACHYR					
DOCUMENTED:	8/20/91 Revised:					

ELEMENT TITLE:

Transfer Student Entrant Year

- DEFINITION: The calendar year when a transfer student was admitted as an entrant to the 4-year institution.
- FORMAT: numeric 4 digits
- CODES: 4 digit year

COMMENTS:

RELATED TO: Transfer Student Entrant Semester

GLOSSARY:

- SYSTEMS: TSS
- SYSNAME: TENTERYR
- DOCUMENTED: 8/9/91 Revised:

ELEMENT TITLE:

Transfer Student Entrant Semester

- DEFINITION: The semester when a transfer student was admitted as an entrant to the 4-year institution.
- FORMAT: numeric 1 digit

CODES: blank = unknown 1 = summer (preceding fall associated with fall in same academic year) 2 = fall 3 = spring

COMMENTS:

RELATED TO: Transfer Student Entrant Year

GLOSSARY:

- SYSTEMS: TSS
- SYSNAME: TENTERSM
- DOCUMENTED: 8/20/91 Revised:

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Appendix B

Glossary

For definitions of terms please refer to the Maryland Annual Data Collection Glossary available online at <u>http://data.mhec.state.md.us/macinfo/glossary.pdf</u>

Appendix C Tape Submission Form

MARYLAND HIGHER EDUCATION COMMISSION

INSTITUTIONAL CERTIFICATION AND SPECIFICATION FORM FOR AUTOMATED SUBMISSION

INSTRUCTIONS - The institution should complete this form and forward to either the Commission or your segmental coordinator. It is important that all information be completed and this form accompany the file to insure accurate transfer of data.

SUBMISSION DATE /// FOR INSTITUTION	
CE	ERTIFICATION
Attached is the file submission for the system indicated below in the standard MHEC record	Name
format and prepared in accordance with MHEC	Title
instructions and data definitions.	Phone
I certify that the information submitted on this file is correct and true to the best of my knowledge	Signature
- System Submitted (check or	only one and supply all information)
	Freeze Date ¹ Number of Records on File
Enrollment Information System (EIS)	
Degree Information System (DIS)	N/A students
Employee Data System (EDS)	employees
High School Graduate System (HGS)	N/A students
Transfer Student System (TSS)	N/A students
Workforce Data System (WDS) (for community colleges: credit and/or non-o	N/A students)
$^1\mathrm{Freeze}$ Date is the "as of" for the data on file	

FILE SPECIFICATION

Type of Software and computer used:

1

Circle appropriate specifications for file transfer:

Options	Character Format	File Format	File Transmittal
Preferred	ASCII	Text*	Diskette or Email Attachment (should be zipped and passworded)
Other		Access (WDS only) Excel (WDS only)	

*text is fixed format, non-delimited, MS-DOS file

Circle appropriate specifications for open reel tape, if using:

Options	Label on Tape	Character Format	Tape Format	Density	Record Size (characters)	Block Size (physical length in characters)
Preferred	Unlabeled	ASCII	9-track	6250 BPI	100	100
Other Options	ANSI IBM	EBCDIC		1600 BPI	Other, Specify	1000, 4000 Other, Specify

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INSTRUCTIONS

In order to allow institutions flexibility to submit files in different formats, the use of this form allows for an accurate and complete transfer of information to the Commission. The use of this form eliminates missing or incorrect specifications that cause both confusion and extra work. It also reduces the possibility of loss of data or misinterpretation.

A cover letter in lieu of this certification form can be used as an alternative. If you email your file this certification is still required. Please be sure to include all of the information contained on this form.

SPECIAL PUBLIC SEGMENT COORDINATOR INSTRUCTIONS

The UMS can submit certifications by either the institutions or the segment. The freeze date for enrollment and employee submissions (day when snapshot of students or employees was taken to create the file) must be included for each institution.

Each institution (or organizational) reporting unit must be in a separate physical file. In the past, we have had problems in trying to separate the institution from one large file due to bad institution coding or file specifications.

MHEC90CS (revised 8/01)