1--General Information

1.1 Introduction

This documentation is a guide to the new Program and Curriculum Approval System, PCAS, Data Warehouse tables. The new tables are specifically designed for reporting information about Programs and Curricula at University of Minnesota.

These instructions are intended as a general guide for individuals accessing program and curriculum data. DWPC is a curriculum related database designed to provide easy access to effective date, graduation requirement, entrance requirement, sub plan and college information related to curricula.

Like other institutional databases, DWPC is a "snapshot" database containing data from an operational source as of a given point in time. Each time it is refreshed, some of the data is replaced and some tables have records or data added to them. The data then remains static until the next refresh. See Section 4 for the refresh schedule.

1.2 Uses and Limitations

All tables in the Data Access environment, including those from the DWPC Program/curricula tables, are intended primarily for institutional planning and projections, and ad hoc reporting purposes. As such they are intended to complement existing production reports. The primary benefit of having data in such an environment is that customers have direct access to the data using state of the art software technology, with the capability to design and run their own reports as the need arises, with minimal cost and effort.

1.3 Access Procedures
Contact Margo Mueller at 612-626-7867 for information about access to DWPC tables in the Data Warehouse.

The access form can be downloaded from the internet, http://www1.umn.edu/datasec/security/Requestingaccess.html

Just follow the routing instructions.

**DWPC Tables:**

DWPC_PROGRAM  
DWPC_PROGRAM_COLLEGE  
DWPC_PROGRAM_SUB_PLAN  
DWPC_PROGRAM_DEPARTMENT  
DWPC_CATALOG_DESCRIPTION

1.4 Help Resources

Because a problem may be due to several factors, it is important to have a variety of resources to turn to in seeking a solution. The chart below lists the available resource units and the kinds of questions each one can handle. In some cases expertise overlaps, so a given answer could be obtained from more than one place.

<table>
<thead>
<tr>
<th>RESOURCE</th>
<th>CONTACT</th>
<th>TOPICS</th>
<th>PHONE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Margo Mueller</td>
<td></td>
<td>DWPC table content, Source system application (PCAS) data, Refresh information for DWPC tables</td>
<td>(612) 626-7867</td>
</tr>
<tr>
<td>Data Warehouse Listserv</td>
<td></td>
<td>SQL questions, Performance questions, Important news and updates about table loads and availability</td>
<td></td>
</tr>
</tbody>
</table>

To Subscribe:

**IDEA Listserv (IDEA-L)**

IDEA Data Warehouse customers have an electronic forum for information sharing about IDEA, the data, the migration, table loads, query and reporting tools, tips, tricks, etc.

If you would like to join the IDEA-L Listserv, please follow the steps below.

**TO SUBSCRIBE**

To subscribe to the IDEA-L listserv:

1) Send an e-mail to LISTSERV@umn.edu
2) Leave the subject line blank.
3) Add the following text on the 1st line: SUBSCRIBE IDEA-L your full name

Example: SUBSCRIBE IDEA-L John Doe

**TO SEND IDEA-L Listserv Mail**

Once you are a member, you may send mail to the listserv using this address: IDEA-L@umn.edu
1.5 Refresh Schedule

The five DWPC Program tables are fully refreshed Monday through Friday a little after 4:00AM.

2--Table Information

2.1 Table Structure

The Data Warehouse at the University of Minnesota uses a relational database management system (Oracle). In relational database systems, data are organized into tables of rows and columns. The tables are like files; they contain data with a common "theme". The rows of a table are like records within the file. Each column is like a data field, and represents an element that is common across the rows (records) of a table.

2.2 Individual Table Descriptions

**DWPC_CATALOG_DESCR**

This is a very specialized table that carries the program status and type along with the full Catalog Description of the program. This description field can be over 3,000 bytes long, so keep that in mind when using this table.

<table>
<thead>
<tr>
<th>#</th>
<th>COLUMN NAME</th>
<th>COLUMN_DESCR</th>
<th>TYPE/SIZE</th>
<th>TABLE SOURCE</th>
<th>COLUMN SOURCE</th>
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<tbody>
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<td>program_id</td>
<td>Program ID Number</td>
<td>N(22)</td>
<td>ewcs_ca_program</td>
<td>program_id</td>
</tr>
<tr>
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<td>Program ID Sequence Number</td>
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<td>program_seq</td>
</tr>
<tr>
<td>3</td>
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<td>Program Type</td>
<td>C(10)</td>
<td>ewcs_ca_program</td>
<td>program_type</td>
</tr>
<tr>
<td>4</td>
<td>pgm_status_flag</td>
<td>Program Status Flag</td>
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<td>calculated</td>
<td>todays date and pgm_effdt</td>
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<td>derived</td>
<td>date as of data load</td>
</tr>
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</table>

**DWPC_PROGRAM**
This table contains broad information about programs. Their effective dates and terms, their entry and exit requirements as well as degree types and field of study categories.

Some important features of this table are that it carries data for Current, Future, Historical and Discontinued versions of programs. It also carries only fully approved programs. If there is more than one fully approved version of a program with the same Term Valid date, only the most recently updated version of that program will be available in the DWPC database.

C = Current. Programs that have students participating in them at the present time are marked as current. In more technical terms, DWPC programs that have a program effective date equal to or less than the date of the last refresh of the data have a pgm_status_flag value of C.

F = Future. Programs marked as Future will have students participating in them at a future date/term. In more technical terms, DWPC programs that have a program effective date greater than the date of the last refresh of the data have a pgm_status_flag value of F.

H = Historical. Programs marked as Historical, may have students participating in them but are no longer available for new students to enroll. If a program has been discontinued, it is also marked as Historical. In more technical terms, DWPC programs that have more recent versions or are marked as discontinued, have a pgm_status_flag value of H.

D = Discontinued. Programs marked as Discontinued, are no longer valid sources of graduation or completion requirements. The criteria used to mark a program as discontinued is that the 'Last Term Valid' term must be the current or earlier term.

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<th>COLUMN SOURCE</th>
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<td>program_seq</td>
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</tr>
<tr>
<td>ugrad_admit_min_gpa</td>
<td>Minimum Grade Point Average To Enter Program</td>
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<tr>
<td>ugrad_admit_min_gpa_iut_flag</td>
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<td>admit_min_gpa_trans</td>
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</tr>
</tbody>
</table>
This table contains data about colleges that are connected to various programs. A college's connection may be that of Primary, Approval or Degree Granting. The Budgetary Percent carried by a college is found here too. This table also has the academic plan assigned to the Program/Curriculum and the CIP code.

<table>
<thead>
<tr>
<th>#</th>
<th>COLUMN NAME</th>
<th>COLUMN_DESCR</th>
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<th>COLUMN SOURCE</th>
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<td>program_seq</td>
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<tr>
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</table>
### DWPC_PROGRAM_DEPARTMENT

This table is essentially a list of departments and the programs/curricula to which they are connected.

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<tr>
<th>#</th>
<th>COLUMN NAME</th>
<th>COLUMN_DESCR</th>
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<th>TABLE SOURCE</th>
<th>COLUMN SOURCE</th>
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<td>D(7)</td>
<td>derived</td>
<td>date as of data load</td>
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</table>

### DWPC_PROGRAM_SUB_PLAN

This table contains data about academic sub plans that are connected with each program/curriculum. This includes sub plan name, type, and whether or not a sub plan is required for a particular program/curriculum.

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<th>COLUMN NAME</th>
<th>COLUMN_DESCR</th>
<th>TYPE/SIZE</th>
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#### 2.3 Table Joins

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#### 2.4 Key Fields
### 3--Column/Field Information

#### 3.1 Introduction

This section describes the specific data elements or fields in the DWPC tables. Section 3.2 is a dictionary listing of all the elements (columns or fields) in alphabetic order. Included are full and short column names, column definitions, type, size, and some code definitions. It is intended to help users select and interpret DWPC data.

#### 3.2 Column/Field Definitions

<table>
<thead>
<tr>
<th>Table Name</th>
<th>Key Fields</th>
</tr>
</thead>
<tbody>
<tr>
<td>DWPC_PROGRAM</td>
<td>program_id, program_seq</td>
</tr>
<tr>
<td>DWPC_PROGRAM_COLLEGE</td>
<td>program_id, program_seq, institution, acad_group</td>
</tr>
<tr>
<td>DWPC_PROGRAM_SUB_PLAN</td>
<td>program_id, program_seq, sub_plan_seq</td>
</tr>
<tr>
<td>DWPC_PROGRAM_DEPARTMENT</td>
<td>program_id, program_seq, acad_org</td>
</tr>
<tr>
<td>DWPC_CATALOG_DESCR</td>
<td>program_id, program_seq</td>
</tr>
</tbody>
</table>

**ACAD_CAREER**  
*Academic Career*  
A four character abbreviation indicating the academic "level" of application or enrollment.  
Setup table: ps_acad_car_tbl

To see examples of acad_career, run this query:

```sql
SELECT institution, acad_career, effdt, eff_status, descr, descrshort
FROM ps_acad_car_tbl
ORDER BY institution, acad_career
```

**ACAD_GROUP**  
*Academic Group*  
A four character value in a five character field representing the college or area class.  
The acad_group tied to a class is the college that owns the subject.

Setup table: ps_acad_group_tbl

To see examples of acad_group, run this query:

```sql
SELECT institution, acad_group, effdt, eff_status, descr, descrshort
FROM ps_acad_group_tbl
ORDER BY institution, acad_group
```

**ACAD_GROUP_DESCR**  
*College Or Academic Group Description*  
Describes the college or acad_group

**ACAD_ORG**  
*Academic Organization*  
A value representing U of M departments, programs (colleges), and institutions (campuses). Department codes are parallel with CUFS area/class codes. Program and institution codes are alphanumeric acronyms.

The acad_org tied to a class belongs to the department that taught the class.

Setup table: ps_acad_org_tbl

To see examples of acad_org, run this query:

```sql
SELECT acad_org, effdt, eff_status, descr, descrshort
FROM ps_acad_org_tbl
ORDER BY acad_org
```

**ACAD_ORG_DESCR**  
*Academic Organization Description*  

Thirty character long description of acad_org which is a value representing U of M departments, programs (colleges), and institutions (campuses). Department codes are parallel with CUFS area/class codes.

Setup table: ps_acad_org_tbl

To see examples of acad_org, run this query:

```sql
SELECT acad_org, effdt, eff_status, descr, descrshort
FROM ps_acad_org_tbl
ORDER BY acad_org
```

**ACAD_PLAN**  
**Academic Plan C10**

A ten character code indicating a student's intended or enrolled "major". First four characters represent general plan (old major code) Characters 5, 6, and 7 represent the degree sought (old degree sought code) Characters 8 and 9 represent the program code (old unit code/college)

Setup table: ps_acad_plan_tbl

Example: 038020217 = acad_plan

0308 = History  
202 = BA  
17 = College of Liberal Arts

To see examples of acad_plan, run this query:

```sql
SELECT acad_plan, effdt, eff_status, descr, descrshort
FROM ps_acad_plan_tbl
ORDER BY acad_plan
```

**ACAD_PLAN_DESCR**  
**Academic Plan Description C30**

30 character description of the Acad Plan

**ACAD_PLAN_TYPE**  
**Academic Plan Type C3**

The academic plan type. Is the academic plan a major, minor, pre-major, etc..

Setup table: xlatable

To see examples of acad_plan_type, run this query:

```sql
SELECT fieldvalue, effdt, eff_status, xlatlongname, xlatshortname
FROM xlatable
WHERE fieldname='ACAD_PLAN_TYPE'
ORDER BY fieldvalue
```

**ACAD_SUB_PLAN**  
**Academic Sub-Plan C10**

Two character code in a ten character field representing a student's sub plan or area of specialization within a plan.

Setup table: ps_acad_subplan_tbl

To see examples of acad_sub_plan, run this query:

```sql
SELECT institution, acad_plan, acad_sub_plan, effdt, eff_status, descr, descrshort
FROM ps_acad_subplan_tbl
ORDER BY institution, acad_plan, acad_sub_plan
```

**ACAD_SUB_PLAN_NAME**  
**Academic Sub Plan Description C30**

Description of an Acad Sub Plan

Some examples are:

Spanish Emphasis  
Bassoon/French Horn  
Ethics and Civic Life  
Digital Art and Photography  
Sculpture and Ceramics  
Conservation and Resource Mgmt  
Etc.

**ACAD_SUB_PLAN_TYPE**  
**Academic Sub Plan Type C30**
Full name of sub plan type.

Some values are:

Honors
Area
Concentration
Degree Emphasis
Emphasis Honors
Track
Etc.

**APPROVAL COLLEGE**

College That Has Approved Program

If flagged Y, this college is the approval college associated with this Program

**BUDGETARY_PERCENT**

Percent Of Program Paid By College

The percent of the budget that the college is responsible for

**CATALOG_DESCR**

Text Used To Print Catalog

Text used to print catalog. 3,000 bytes

**CIP_CODE**

CIP Code

The Classification of Instructional Programs (CIP) code is a system (Department of Education) used by secondary, postsecondary, and adult education institutions to categorize education programs and courses. The CIP code system is intended to be comprehensive and provide a logically consistent universal coding schema for courses and programs. Values in this field are mapped to values for the PS field Acad_Plan. This is currently not being used for courses.

Setup Table: ps_cip_code_tbl

To see examples of cip code, run this query:

```
SELECT cip_code, effdt, eff_status, descr
FROM ps_cip_code_tbl
ORDER BY cip_code
```

**DEGREE_CODE**

Degree Code

3 digit code denoting the degree and major.

**DEGREE_GRANTING_COLLEGE**

College That Grants Degree For Program

If flagged Y, this college grants the degree associated with this Program

**FIELD_OF_STUDY**

Field of Study

A broad grouping of programs. For example: BUSINESS, MTH/ENG/SC, COMM/LANG, EDUCATION etc.

To see examples and descriptions of Field_Of_Study, run this query:

```
SELECT * from
EWCS_CA_FIELD_OF_STUDY_TYPE
order by field_of_study_type
```

**FIRST_TERM_VALID**

First Term Program Was Offered

The very first term that this Program was valid.

**INSTITUTION**

A five character abbreviation of Institution or "campus"

Setup table: ps_institution_tbl

To see examples of institution, run this query:

```
SELECT institution, effdt, eff_status, descr, descrshort
FROM ps_institution_tbl
ORDER BY institution
```

**LAST_CHANGE_DT**

Last Change Date

Last date that data about the Program was changed in the PCAS system.

**LAST_TERM_VALID**

Last Term That Program Was Valid

The last term for which this Program will be valid before it is discontinued.

**LONG_DESCR**

Academic Program Description

Thirty byte description of Program.
LOWER_DIV_FOCUS_FLAG  Lower Division Focus Flag C1
Flags the presence of a lower division focus.
Values: Y or N.

MAX_PGM_CREDITS  Maximum Program Credits Allowed N22
When program is a BACC or an ASSC then this is the maximum credits for whole program
When program is a minor, this has maximum hours for that minor
Does not apply to major which has its own column

MIN_PGM_CREDITS  Minimum Program Credits Allowed N22
When program is a BACC or an ASSC then this is the minimum credits for whole program
When program is a Minor (MRM, FSM), this has the number of credits needed for that minor only
Does not apply to Major which has its own column

PGM_EFFDT  Program Effective Date D8
The actual date of the first day of the term for which this version of the program was, is or will be valid.

PGM_FOCUS_TITLE  Program Focus Title C100
Description of a program's focus or subject. Not widely used.

PGM_PROPOSED_DT  Program Proposed Date D8
The date when this version of the program was first proposed.

PGM_STATUS_FLAG  Program Status Flag C1
F - Future version of program
C - Current version of program
H - Historical version of program
D - fully Discontinued program
If discontinued then D
If pgm_effdt > today then F
if pgm_effdt = today then C
if pgm_effdt today and there is a current version of program, then H

PGM_TYPE  Program Type C10
A short character code defining type of program.
To see examples of pgm_type, run this query:
select career, program_type, description from EWCS_CA_PROGRAM_TYPE order by career, program_type

PRIMARY_COLLEGE  Primary College For Program C1
If flagged Y, this college is the primary college associated with this Program

PROGRAM_ID  Program ID Number N22
A unique number assigned to a program in PCAS.

PROGRAM_SEQ  Program ID Sequence Number N22
An additional number assigned to each program to track the versions of that program. For example program 7 may have many versions. Each version will have a different sequence number.

RIASEC1  Primary Holland RIASEC Code C3
Primary Holl and RIASEC code for the program

Realistic occupations include mechanics, carpenters, surveyors, farmers, and other occupations requiring mechanical abilities.

Investigative occupations include scientific occupations such as chemists, physicists, biologists, anthropologists, and other occupations requiring mathematical and scientific abilities.

Artistic occupations include musicians, writers, interior decorators, actors, and other occupations requiring writing, musical, artistic or creative abilities.

Social occupations include counselors, psychologists, social workers, teachers, clergy, speech therapists, and other occupations requiring social and interpersonal abilities.

Enterprising occupations include salespeople, politicians, buyer, sports caster, television reporter, and other occupations requiring leadership and speaking abilities.

Conventional occupations include accountants, bankers, analysts, bookkeepers, executive assistants, industrial engineer and other occupations requiring clerical and arithmetic abilities.

RIASEC2
Secondary Holl and RIASEC Code C3

Secondary Holl and RIASEC code for the program

Realistic occupations include mechanics, carpenters, surveyors, farmers, and other occupations requiring mechanical abilities.

Investigative occupations include scientific occupations such as chemists, physicists, biologists, anthropologists, and other occupations requiring mathematical and scientific abilities.

Artistic occupations include musicians, writers, interior decorators, actors, and other occupations requiring writing, musical, artistic or creative abilities.

Social occupations include counselors, psychologists, social workers, teachers, clergy, speech therapists, and other occupations requiring social and interpersonal abilities.

Enterprising occupations include salespeople, politicians, buyer, sports caster, television reporter, and other occupations requiring leadership and speaking abilities.

Conventional occupations include accountants, bankers, analysts, bookkeepers, executive assistants, industrial engineer and other occupations requiring clerical and arithmetic abilities.

RIASEC3
Tertiary Holl and RIASEC Code C3

Tertiary Holl and RIASEC primary code for the program

Realistic occupations include mechanics, carpenters, surveyors, farmers, and other occupations requiring mechanical abilities.

Investigative occupations include scientific occupations such as chemists, physicists, biologists, anthropologists, and other occupations requiring mathematical and scientific abilities.

Artistic occupations include musicians, writers, interior decorators, actors, and other occupations requiring writing, musical, artistic or creative abilities.

Social occupations include counselors, psychologists, social workers, teachers, clergy, speech therapists, and other occupations requiring social and interpersonal abilities.

Enterprising occupations include salespeople, politicians, buyer, sports caster, television reporter, and other occupations requiring leadership and speaking abilities.

Conventional occupations include accountants, bankers, analysts, bookkeepers, executive assistants, industrial engineer and other occupations requiring clerical and arithmetic abilities.

SHORT_DESCR
Academic Program Short Description C10

Short, 10 byte, searchable description of the program

SUBPLAN_REQ_FLAG
Academic Sub Plan Required Flag C1

A one letter code that describes whether or not a subplan is required, optional or honors

O = Optional Non-Honors
R = Required
H = Honors Non-Required

SUBPLAN_SEQ
Academic Sub Plan Sequence Number N22

A sequence number assigned to sub_plans associated with a program

SUMMER_TERM_FLAG
Summer Term Required Flag C1
Flags whether or not summer terms are required to complete program
Values: Y or N.

**SYS_LOAD_DT**  
System Load DateD8
For system use, date and time row was inserted into the table.

**TERMS_TO_COMPLETE**  
Terms To Complete ProgramN22
Number of terms to complete the program. This is not valid for Minors.

**TERM_VALID**  
Term That Program Will Be ValidC4
The term for which this version of the program was, is or will be valid.

**TRACK_REQUIRED_FLAG**  
Track Or Sub Plan Required FlagC1
Flags that a student must choose from one or more subplans or tracks to complete this program.
Values: Y or N.

**TRANSCRIPT_TITLE**  
Transcript TitleC100
Text that is on the student's transcript upon completing program.

**UGRAD_ADMIT_MIN_COURSES**  
Minimum Courses To Enter ProgramN22
Minimum courses to enter program

**UGRAD_ADMIT_MIN_CREDITS**  
Minimum Credits To Enter ProgramN22
Minimum credits to enter program

**UGRAD_ADMIT_MIN_GPA**  
Minimum Grade Point Average To Enter ProgramN22
Minimum grade point average to enter program

**UGRAD_ADMIT_MIN_GPA_FLAG**  
Minimum Grade Point Average To Enter ProgramC1
Flags that there is a min GPA for admission
Values:
N = no minimum GPA  
Y = minimum GPA  
S = minimum GPA for specific courses

**UGRAD_ADMIT_MIN_GPA_IUT**  
Undergrad Admission Minimum GPA Intra University TransferN22
States minimum GPA needed for intra university transfer pre-admission

**UGRAD_ADMIT_MIN_GPA_IUT_FLAG**  
Undergrad Admission Minimum GPA Intra University Transfer FlagC1
Flags that there is an intra university transfer minimum GPA
Values:
N = no minimum GPA  
Y = minimum GPA  
S = minimum GPA for specific courses

**UGRAD_ADMIT_MIN_GPA_TRANS**  
Undergrad Admission Minimum GPA TransfersN22
States minimum GPA needed for transfer student pre-admission

**UGRAD_ADMIT_MIN_GPA_TRANS_FLAG**  
Undergrad Admission Minimum GPA Transfers FlagC1
Flags that there is a transfer student minimum GPA requirement
Values:
N = no minimum GPA  
Y = minimum GPA  
S = minimum GPA for specific courses

**UGRAD_LANGUAGE_REQ_CODE**  
Undergraduate Language Required CodeC1
Indicates whether or not a foreign language is required for programs.

Values:
- A - Any language will fulfill requirement
- N - No language required
- S - Specific language is required

**UGRAD_LANGUAGE_TERMS** Undergraduate Language Terms Number N
Indicates how many terms of a foreign language are required for program.

**UGRAD_MAX_MAJOR_CREDITS** Undergrad Maximum Major Credits N
Indicates maximum number of credits allowed for this major.

**UGRAD_MIN_MAJOR_CREDITS** Undergrad Minimum Major Credits N
Indicates minimum number of credits allowed for this major.

**UGRAD_PRE_ADMIT_FLAG** Undergraduate Pre-Admission Flag C
Flags the presence of a pre-admission requirement

Values:
- Both - freshmen and transfer students have to be in pre-admission status to enter.
- Freshmen - freshmen only have to be in pre-admission status to enter.
- None - no pre-admission status is necessary.
- Transfer - transfers have to be in pre-admission status.

### 4.1 Indexes

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<th>Table Name</th>
<th>Index Name</th>
<th>Column Name</th>
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</thead>
<tbody>
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<td>DWPC_CATALOG_DESCR</td>
<td>DWPC_CATALOG_DESCR_IDX1</td>
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<td>PROGRAM_ID</td>
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<td>ACAD_GROUP</td>
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### 4.2 Additional Documentation

Data Warehouse Home Page: [http://dw.umn.edu](http://dw.umn.edu)
OIT Policies, Standards, and Guidelines: [http://www.umn.edu/oit/policies](http://www.umn.edu/oit/policies)