

Curriculum/Degree Programs Database Tables and Audit Files

Prior to FY17 UA Statewide IR has attempted to maintain 'soft-ledger' information on degree programs with input from the Registrars and University IR offices to represent what is directly in Banner currently and in the DSDMGR data warehouse historically in a way that is consistent with published Board of Regents' policy and that adjusts for miscoded majors (e.g. BIOL vs BIOS) when needed (program crosswalk), and also indicates whether a given degree program is open for admission/suspended/pre-major/etc. (program status).

This has become more and more complicated over time and has finally reached a point where it is unsustainable so, from this point on, IR will rely on information directly from the curriculum data in Banner (the form is SOACURR, the database tables are SATURN.SOBCURR and SATURN.SORCMJR). Prior to now, the admissions flag was used to determine reportable degree programs stored in Banner. Going forward, a combination of three flags in SOACURR will be used to determine the status of degree programs with regard to reporting, and students with degree program data that doesn't align with it will be considered to be in a teach-out program.

General Notes and Information on the Audit File

The following is a sample image of the degree program audit file:

A	B	C	D	E	F	G	H	I	AH	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
1	MAJ	CAMP	Campus Description	MAJR	Major Description	DEGC	Degree Description	UIAR	Deg	Dist	Flag	TERM_200603	TERM_200604	TERM_200605	TERM_200606	TERM_200607	TERM_200608	TERM_200609	TERM_200610	TERM_200611	TERM_200612	TERM_200701	TERM_200702	TERM_200703	TERM_200704	TERM_200705	TERM_200706	TERM_200707	TERM_200708	TERM_200709	TERM_200710	TERM_200711	TERM_200712	TERM_200801	TERM_200802	TERM_200803	TERM_200804	TERM_200805	TERM_200806	TERM_200807	TERM_200808	TERM_200809	TERM_200810	TERM_200811	TERM_200812	TERM_200901	TERM_200902	TERM_200903	TERM_200904	TERM_200905	TERM_200906	TERM_200907	TERM_200908	TERM_200909	TERM_200910	TERM_200911	TERM_200912	TERM_201001	TERM_201002	TERM_201003	TERM_201004	TERM_201005	TERM_201006	TERM_201007	TERM_201008	TERM_201009	TERM_201010	TERM_201011	TERM_201012	TERM_201101	TERM_201102	TERM_201103	TERM_201104	TERM_201105	TERM_201106	TERM_201107	TERM_201108	TERM_201109	TERM_201110	TERM_201111	TERM_201112	TERM_201201	TERM_201202	TERM_201203	TERM_201204	TERM_201205	TERM_201206	TERM_201207	TERM_201208	TERM_201209	TERM_201210	TERM_201211	TERM_201212	TERM_201301	TERM_201302	TERM_201303	TERM_201304	TERM_201305	TERM_201306	TERM_201307	TERM_201308	TERM_201309	TERM_201310	TERM_201311	TERM_201312	TERM_201401	TERM_201402	TERM_201403	TERM_201404	TERM_201405	TERM_201406	TERM_201407	TERM_201408	TERM_201409	TERM_201410	TERM_201411	TERM_201412	TERM_201501	TERM_201502	TERM_201503	TERM_201504	TERM_201505	TERM_201506	TERM_201507	TERM_201508	TERM_201509	TERM_201510	TERM_201511	TERM_201512	TERM_201601	TERM_201602	TERM_201603	TERM_201604	TERM_201605	TERM_201606	TERM_201607	TERM_201608	TERM_201609	TERM_201610	TERM_201611	TERM_201612	TERM_201701	TERM_201702	TERM_201703	TERM_201704	TERM_201705	TERM_201706	TERM_201707	TERM_201708	TERM_201709	TERM_201710	TERM_201711	TERM_201712	TERM_201801	TERM_201802	TERM_201803	TERM_201804	TERM_201805	TERM_201806	TERM_201807	TERM_201808	TERM_201809	TERM_201810	TERM_201811	TERM_201812	TERM_201901	TERM_201902	TERM_201903	TERM_201904	TERM_201905	TERM_201906	TERM_201907	TERM_201908	TERM_201909	TERM_201910	TERM_201911	TERM_201912	TERM_202001	TERM_202002	TERM_202003	TERM_202004	TERM_202005	TERM_202006	TERM_202007	TERM_202008	TERM_202009	TERM_202010	TERM_202011	TERM_202012	TERM_202101	TERM_202102	TERM_202103	TERM_202104	TERM_202105	TERM_202106	TERM_202107	TERM_202108	TERM_202109	TERM_202110	TERM_202111	TERM_202112	TERM_202201	TERM_202202	TERM_202203	TERM_202204	TERM_202205	TERM_202206	TERM_202207	TERM_202208	TERM_202209	TERM_202210	TERM_202211	TERM_202212	TERM_202301	TERM_202302	TERM_202303	TERM_202304	TERM_202305	TERM_202306	TERM_202307	TERM_202308	TERM_202309	TERM_202310	TERM_202311	TERM_202312	TERM_202401	TERM_202402	TERM_202403	TERM_202404	TERM_202405	TERM_202406	TERM_202407	TERM_202408	TERM_202409	TERM_202410	TERM_202411	TERM_202412	TERM_202501	TERM_202502	TERM_202503	TERM_202504	TERM_202505	TERM_202506	TERM_202507	TERM_202508	TERM_202509	TERM_202510	TERM_202511	TERM_202512	TERM_202601	TERM_202602	TERM_202603	TERM_202604	TERM_202605	TERM_202606	TERM_202607	TERM_202608	TERM_202609	TERM_202610	TERM_202611	TERM_202612	TERM_202701	TERM_202702	TERM_202703	TERM_202704	TERM_202705	TERM_202706	TERM_202707	TERM_202708	TERM_202709	TERM_202710	TERM_202711	TERM_202712	TERM_202801	TERM_202802	TERM_202803	TERM_202804	TERM_202805	TERM_202806	TERM_202807	TERM_202808	TERM_202809	TERM_202810	TERM_202811	TERM_202812	TERM_202901	TERM_202902	TERM_202903	TERM_202904	TERM_202905	TERM_202906	TERM_202907	TERM_202908	TERM_202909	TERM_202910	TERM_202911	TERM_202912	TERM_203001	TERM_203002	TERM_203003	TERM_203004	TERM_203005	TERM_203006	TERM_203007	TERM_203008	TERM_203009	TERM_203010	TERM_203011	TERM_203012	TERM_203101	TERM_203102	TERM_203103	TERM_203104	TERM_203105	TERM_203106	TERM_203107	TERM_203108	TERM_203109	TERM_203110	TERM_203111	TERM_203112	TERM_203201	TERM_203202	TERM_203203	TERM_203204	TERM_203205	TERM_203206	TERM_203207	TERM_203208	TERM_203209	TERM_203210	TERM_203211	TERM_203212	TERM_203301	TERM_203302	TERM_203303	TERM_203304	TERM_203305	TERM_203306	TERM_203307	TERM_203308	TERM_203309	TERM_203310	TERM_203311	TERM_203312	TERM_203401	TERM_203402	TERM_203403	TERM_203404	TERM_203405	TERM_203406	TERM_203407	TERM_203408	TERM_203409	TERM_203410	TERM_203411	TERM_203412	TERM_203501	TERM_203502	TERM_203503	TERM_203504	TERM_203505	TERM_203506	TERM_203507	TERM_203508	TERM_203509	TERM_203510	TERM_203511	TERM_203512	TERM_203601	TERM_203602	TERM_203603	TERM_203604	TERM_203605	TERM_203606	TERM_203607	TERM_203608	TERM_203609	TERM_203610	TERM_203611	TERM_203612	TERM_203701	TERM_203702	TERM_203703	TERM_203704	TERM_203705	TERM_203706	TERM_203707	TERM_203708	TERM_203709	TERM_203710	TERM_203711	TERM_203712	TERM_203801	TERM_203802	TERM_203803	TERM_203804	TERM_203805	TERM_203806	TERM_203807	TERM_203808	TERM_203809	TERM_203810	TERM_203811	TERM_203812	TERM_203901	TERM_203902	TERM_203903	TERM_203904	TERM_203905	TERM_203906	TERM_203907	TERM_203908	TERM_203909	TERM_203910	TERM_203911	TERM_203912	TERM_204001	TERM_204002	TERM_204003	TERM_204004	TERM_204005	TERM_204006	TERM_204007	TERM_204008	TERM_204009	TERM_204010	TERM_204011	TERM_204012	TERM_204101	TERM_204102	TERM_204103	TERM_204104	TERM_204105	TERM_204106	TERM_204107	TERM_204108	TERM_204109	TERM_204110	TERM_204111	TERM_204112	TERM_204201	TERM_204202	TERM_204203	TERM_204204	TERM_204205	TERM_204206	TERM_204207	TERM_204208	TERM_204209	TERM_204210	TERM_204211	TERM_204212	TERM_204301	TERM_204302	TERM_204303	TERM_204304	TERM_204305	TERM_204306	TERM_204307	TERM_204308	TERM_204309	TERM_204310	TERM_204311	TERM_204312	TERM_204401	TERM_204402	TERM_204403	TERM_204404	TERM_204405	TERM_204406	TERM_204407	TERM_204408	TERM_204409	TERM_204410	TERM_204411	TERM_204412	TERM_204501	TERM_204502	TERM_204503	TERM_204504	TERM_204505	TERM_204506	TERM_204507	TERM_204508	TERM_204509	TERM_204510	TERM_204511	TERM_204512	TERM_204601	TERM_204602	TERM_204603	TERM_204604	TERM_204605	TERM_204606	TERM_204607	TERM_204608	TERM_204609	TERM_204610	TERM_204611	TERM_204612	TERM_204701	TERM_204702	TERM_204703	TERM_204704	TERM_204705	TERM_204706	TERM_204707	TERM_204708	TERM_204709	TERM_204710	TERM_204711	TERM_204712	TERM_204801	TERM_204802	TERM_204803	TERM_204804	TERM_204805	TERM_204806	TERM_204807	TERM_204808	TERM_204809	TERM_204810	TERM_204811	TERM_204812	TERM_204901	TERM_204902	TERM_204903	TERM_204904	TERM_204905	TERM_204906	TERM_204907	TERM_204908	TERM_204909	TERM_204910	TERM_204911	TERM_204912	TERM_205001	TERM_205002	TERM_205003	TERM_205004	TERM_205005	TERM_205006	TERM_205007	TERM_205008	TERM_205009	TERM_205010	TERM_205011	TERM_205012	TERM_205101	TERM_205102	TERM_205103	TERM_205104	TERM_205105	TERM_205106	TERM_205107	TERM_205108	TERM_205109	TERM_205110	TERM_205111	TERM_205112	TERM_205201	TERM_205202	TERM_205203	TERM_205204	TERM_205205	TERM_205206	TERM_205207	TERM_205208	TERM_205209	TERM_205210	TERM_205211	TERM_205212	TERM_205301	TERM_205302	TERM_205303	TERM_205304	TERM_205305	TERM_205306	TERM_205307	TERM_205308	TERM_205309	TERM_205310	TERM_205311	TERM_205312	TERM_205401	TERM_205402	TERM_205403	TERM_205404	TERM_205405	TERM_205406	TERM_205407	TERM_205408	TERM_205409	TERM_205410	TERM_205411	TERM_205412	TERM_205501	TERM_205502	TERM_205503	TERM_205504	TERM_205505	TERM_205506	TERM_205507	TERM_205508	TERM_205509	TERM_205510	TERM_205511	TERM_205512	TERM_205601	TERM_205602	TERM_205603	TERM_205604	TERM_205605	TERM_205606	TERM_205607	TERM_205608	TERM_205609	TERM_205610	TERM_205611	TERM_205612	TERM_205701	TERM_205702	TERM_205703	TERM_205704	TERM_205705	TERM_205706	TERM_205707	TERM_205708	TERM_205709	TERM_205710	TERM_205711	TERM_205712	TERM_205801	TERM_205802	TERM_205803	TERM_205804	TERM_205805	TERM_205806	TERM_205807	TERM_205808	TERM_205809	TERM_205810	TERM_205811	TERM_205812	TERM_205901	TERM_205902	TERM_205903	TERM_205904	TERM_205905	TERM_205906	TERM_205907	TERM_205908	TERM_205909	TERM_205910	TERM_205911	TERM_205912	TERM_206001	TERM_206002	TERM_206003	TERM_206004	TERM_206005	TERM_206006	TERM_206007	TERM_206008	TERM_206009	TERM_206010	TERM_206011	TERM_206012	TERM_206101	TERM_206102	TERM_206103	TERM_206104	TERM_206105	TERM_206106	TERM_206107	TERM_206108	TERM_206109	TERM_206110	TERM_206111	TERM_206112	TERM_206201	TERM_206202	TERM_206203	TERM_206204	TERM_206205	TERM_206206	TERM_206207	TERM_206208	TERM_206209	TERM_206210	TERM_206211	TERM_206212	TERM_206301	TERM_206302	TERM_206303	TERM_206304	TERM_206305	TERM_206306	TERM_206307	TERM_206308	TERM_206309	TERM_206310	TERM_206311	TERM_206312	TERM_206401	TERM_206402	TERM_206403	TERM_206404	TERM_206405	TERM_206406	TERM_206407	TERM_206408	TERM_206409	TERM_206410	TERM_206411	TERM_206412	TERM_206501	TERM_206502	TERM_206503	TERM_206504	TERM_206505	TERM_206506	TERM_206507	TERM_206508	TERM_206509	TERM_206510	TERM_206511	TERM_206512	TERM_206601	TERM_206602	TERM_206603	TERM_206604	TERM_206605	TERM_206606	TERM_206607	TERM_206608	TERM_206609	TERM_206610	TERM_206611	TERM_206612	TERM_206701	TERM_206702	TERM_206703	TERM_206704	TERM_206705	TERM_206706	TERM_206707	TERM_206708	TERM_206709	TERM_206710	TERM_206711	TERM_206712	TERM_206801	TERM_206802	TERM_206803	TERM_206804	TERM_206805	TERM_206806	TERM_206807	TERM_206808	TERM_206809	TERM_206810	TERM_206811	TERM_206812	TERM_206901	TERM_206902	TERM_206903	TERM_206904	TERM_206905	TERM_206906	TERM_206907	TERM_206908	TERM_206909	TERM_206910	TERM_206911	TERM_206912	TERM_207001	TERM_207002	TERM_207003	TERM_207004	TERM_207005	TERM_207006	TERM_207007	TERM_207008	TERM_207009	TERM_207010	TERM_207011	TERM_207012	TERM_207101	TERM_207102	TERM_207103	TERM_207104	TERM_207105	TERM_207106	TERM_207107	TERM_207108	TERM_207109	TERM_207110	TERM_207111	TERM_207112	TERM_207201	TERM_207202	TERM_207203	TERM_207204	TERM_207205	TERM_207206	TERM_207207	TERM_207208	TERM_207209	TERM_207210	TERM_207211	TERM_207212	TERM_207301	TERM_207302	TERM_207303	TERM_207304	TERM_207305	TERM_207306	TERM_207307	TERM_207308	TERM_207309	TERM_207310	TERM_207311	TERM_207312	TERM_207401	TERM_207402	TERM_207403	TERM_207404	TERM_207405	TERM_207406	TERM_207407	TERM_207408	TERM_207409	TERM_207410	TERM_207411	TERM_207412	TERM_207501	TERM_207502	TERM_207503	TERM_207504	TERM_207505	TERM_207506	TERM_207507	TERM_207508	TERM_207509	TERM_207510	TERM_207511	TERM_207512	TERM_207601	TERM_207602	TERM_207603	TERM_207604	TERM_207605	TERM_207606	TERM_207607	TERM_207608	TERM_207609	TERM_207610	TERM_207611	TERM_207612	TERM_207701	TERM_207702	TERM_207703	TERM_207704	TERM_207705	TERM_207706	TERM_207707	TERM_207708	TERM_207709	TERM_207710	TERM_207711	TERM_207712	TERM_207801	TERM_207802	TERM_207803	TERM_207804	TERM_207805	TERM_207806	TERM_207807	TERM_207808	TERM_207809	TERM_207810	TERM_207811	TERM_207812	TERM_207901	TERM_207902	TERM_207903	TERM_207904	TERM_207905	TERM_207906	TERM_207907	TERM_207908	TERM_207909	TERM_207910	TERM_207911	TERM_207912	TERM_208001	TERM_20

The audit file includes campus, but IR generally reports academic programs at the MAU/University level. So if an academic program is offered at more than one campus within an MAU the 'best' attributes among them will be used for typical reporting. For example, if a program is available fully by distance at one campus but half at the others then the MAU level program would be reported as full distance. Similarly if a program shows as a 7 at one campus and a 3 at another then the program would be reported as open for admission, enrollment, and graduation (or whatever the standard interpretation of 7 is agreed to be).

For example, major code CIOS (Computer Info Office Systems) with degree code AAS is listed for UAA campuses A, D, I, P, and V with the following flags in 201603: A 6, D 4, I 6, P 4, V 7:

MAU	CAMP	Campus Description	MAJR	Major Description	DEGC	Degree Description	UAR Deg	Dist Flag	TERM_201603
UAA	A	UAA - Anchorage Campus	CIOS	Computer Info Office Systems	AAS	Associate of Applied Science	30_AAS	Half	6
UAA	D	UAA - Kodiak	CIOS	Computer Info Office Systems	AAS	Associate of Applied Science	30_AAS	Half	4
UAA	I	UAA - Kenai Peninsula	CIOS	Computer Info Office Systems	AAS	Associate of Applied Science	30_AAS	Half	6
UAA	P	UAA - Matanuska Susitna	CIOS	Computer Info Office Systems	AAS	Associate of Applied Science	30_AAS	Half	4
UAA	V	UAA - Prince William Sound	CIOS	Computer Info Office Systems	AAS	Associate of Applied Science	30_AAS	Half	7
UAA	A	UAA - Anchorage Campus	CIOS	Computer Info Office Systems	CTI	Certificate	10_CT	Full	6

All indicate half of the program is available by distance. So a University level report would list CIOS/AAS at UAA as open for admission, enrollment and graduation (7) at 50% distance delivery.

There are two tables accessible via TOAD in the RTP database viewable by institutional research personnel in the DSDMGR schema: BANNER_PROGRAM_DATA and BANNER_PROGRAM_AUDIT. The second is the source for the Excel file.

How the Data for the Audit File Was Generated

This query (via Toad) shows a starting point for gathering admissions data for degree programs:

Field	SOBCURR_CAMP_CODE	SOBCURR_DEGC_CODE	SORCMJR_MAJR_CODE	SORCMJR_TERM_CODE_EFF	SORCMJR_ADM_IND
Table	SOBCURR	SOBCURR	SORCMJR	SORCMJR	SORCMJR
Database	SATURN	SATURN	SATURN	SATURN	SATURN
Aggregate					
Where	<> '5'		IS NOT NULL		
Or					
Group By					
Having					
Sort	None 3 Ascending Descending	None 2 Ascending Descending	None 1 Ascending Descending	None 4 Ascending Descending	None Ascending Descending
Visible	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Field Alias					
Table Alias	SOBCURR	SOBCURR	SORCMJR	SORCMJR	SORCMJR

The Banner table SORCMJR does not have a flag value of Y/N for every semester. There is a value at a minimum in the start/stop semesters, e.g. a Y in the initial semester and an N in the post-terminal semester. There may be additional semesters with a value of Y or N and sometimes both. The latter situation usually occurs when the college code changes, so that the program is simultaneously off at the old college and on at the new.

A table is built for each flag type (eventually combined to make BANNER_PROGRAM_DATA) where, for each semester, the maximum value of the flag is taken. The flag of the latest semester less than or equal to 199703 is set as a seed value in the term_199703 column. If it is Y it is 'bootstrapped' to the next semester as long as there is no flag value. If it is N or null nothing is done. This process is then applied to term_199801 and so on, repeated to the last semester included in the table. The result looks like (omitting the columns term_199802 to term_201503):

BANNER_PROGRAM_DATA output

MAU	CAMP_CODE	MAJR_CODE	DEGC_CODE	FLAG_TYPE	TERM_199703	TERM_199801	TERM_201601	TERM_201602	TERM_201603
UAF	F	JOUR	BA	ADM	Y	Y	Y	Y	N
UAF	F	JOUR	BA	ENR	Y	Y	Y	Y	N
UAF	F	JOUR	BA	GRD	N	{null}	{null}	{null}	N
UAF	F	JPST	BA	ADM	Y	Y	Y	Y	Y
UAF	F	JPST	BA	ENR	Y	Y	Y	Y	Y
UAF	F	JPST	BA	GRD	N	{null}	{null}	{null}	N
UAF	Y	JPST	AAS	ADM	N	{null}	{null}	{null}	{null}

BANNER_PROGRAM_AUDIT is built by applying the calculations detailed above and summing the results. The results in the excel file are sorted by MAU, major description, degree description, major code, and campus code to facilitate comparing programs at different campuses within each MAU that are the 'same'. The results for JOUR and JPST at UAF look like:

BANNER_PROGRAM_AUDIT output

MAU	CAMP_CODE	STVCAMP_DESC	MAJR_CODE	STVMAJR_DESC	DEGC_CODE	STVDEGC_DESC	UAF07_DEGREE	TERM_199703	TERM_199801	TERM_201601	TERM_201602	TERM_201603
UAF	F	UAF - Fairbanks Campus	JOUR	Journalism	BA	Bachelor of Arts	50_Bac	3	3	3	3	0
UAF	F	UAF - Fairbanks Campus	JPST	Japanese Studies	BA	Bachelor of Arts	50_Bac	3	3	3	3	3

Moving Forward with Degree Program Data, Reporting and Audits

The process of attempting to represent all programs in a canonical form via cross-walking and maintaining information on program status outside of Banner has become unsustainable. Therefore, academic program reporting will be based on information built from what is in Banner, with the exception of what a program's availability via distance delivery is (unless/until this is stored in Banner).

As a group, The University registrars and institutional researchers should standardize how the flags in SOACURR are set to allow a uniform interpretation of a program's 'Status'. After examining the results in the audit file, I propose the following interpretation of the different numeric flags as a starting point for discussion:

- 7 (adm=Y, stu=Y, his=Y) Open for admission, enrollment, and graduation.
- 6 (adm=N, stu=Y, his=Y) Admission suspended/Teach-out.
- 5 (adm=Y, stu=N, his=Y) Not seen in the data. No interpretation.
- 4 (adm=N, stu=N, his=Y) Degree only/Teach-out. (Not sure about how to interpret this)
- 3 (adm=Y, stu=Y, his=N) Pre-major. Open for admission and enrollment.
- 2 (adm=N, stu=Y, his=N) Pre-major. Admission suspended.
- 1 (adm=Y, stu=N, his=N) Only occurs for F/NODA/NDS. Perhaps an error or indicates an admitted exchange student? Not sure how to interpret this.
- 0 (adm=N, stu=N, his=N) Not reportable/Non-degree seeking/Deleted program/

In a given semester valid programs for reporting would have a combined flag value of 7, pre-majors (not usually reported in surveys) would have a flag of 2 or 3, suspended programs in teach-out status would have a flag of 6 (and possibly 4). Any students with campus/major/degree combinations that are not found in the curriculum data could be lumped into a teach-out category.

Future Maintenance of the Curriculum Data

Another decision should be made about whether program data is 'frozen' or if the tables behind SOACURR (SOBCURR and SORCMJR) are the sole source.

If it were agreed that **no prior semester settings could be altered** after a suitable cleanup of older data, e.g. setting recently added programs so that they don't appear to start earlier in the data than they should (an example of this is MWRT), then SOACURR data is fine. Any additions or flag changes in the current (or future) semester(s) would be 'set' after the semester ends.

Otherwise, there would have to be a permanent 'frozen' copy made by IR (this is probably the best option). In this case, once the original program table is built, future updates would consist of determining the flag values of each program at the closing of the semester and adding that semester's data to the DSDMGR table in a new column at the end, not changing existing previous data. This would be part of the current freeze process for student data, which typically occurs 2 – 3 weeks after the end of a semester.