

Banner Components for INGRESS

Georgia Enhanced Banner Student and Financial Aid Systems User Documentation

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Information Technology Services

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Using the Banner Components for INGRESS

Introduction to the Banner Components for INGRESS

Purpose	The Intra-Georgia Registration Sharing System (INGRESS) is a multi- institutional registration tool developed by the University System of Georgia. It allows USG institutions offering collaborative online courses to leverage the Banner system for registration, while distributing available seats in shared course sections across multiple institutions sharing those course sections. It also provides the ability for participating institutions to define course sections and enrollment to the USG collaborative Learning Management System (LMS).
	Transmission of data between each institution's Banner system and the INGRESS tool is necessary to achieve accurate balancing of available seats and creation of LMS data. The Banner INGRESS components have been developed in order to extract enrollment data from Banner and make it available to the INGRESS tool, and to transfer data from INGRESS back to Banner. Components have also been developed to allow attendance verification and grade data collected through the INGRESS tool to be transferred to each institution's Banner system.
Target Audience	This document is used by the functional user that will be setting up and coordinating the exchange of data between Banner and INGRESS.
Purpose and Scope of Document	This document describes the Banner components developed to facilitate integration with the INGRESS tool.
	This chapter includes the following topics:
	Setting up Rules and Codes
	 Defining Sections, Persons, and Memberships to INGRESS
	Loading Attendance Verification Data
	Loading Grade Data
	Clearing Log Table Entries
Graphics	Graphic cues used in this document assist with labeling of steps and items that are particularly important.
Ø	Steps for recovery or support.
M	For additional information, see references.



Warning: an error here is critical.

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INGRESS Process Flow

Description

The Banner components for INGRESS are used in conjunction with each other to extract data from Banner and make it available to INGRESS, and to transfer data from INGRESS back to Banner. Most day-to-day processes will be executed automatically at timed intervals and do not require manual intervention, but manual execution of some processes is required.

Students will register for collaborative online courses by utilizing the normal registration processes within Banner at their home institutions. Identification of students who are eligible to register for these courses is handled individually at the institutions. All registration activities, including drops and withdrawals, will take place within Banner. The institution will run a data extraction process to make course section, student, and instructor data available to INGRESS for automatic processing.

Enrollment counts for shared course sections will be processed by the INGRESS tool at regular intervals throughout the day. INGRESS will calculate the total available seats in a shared course section and allocate equal numbers of those available seats to each of the participating institutions. Available seat counts will be updated in Banner after they are calculated by INGRESS.

Student and instructor data for shared course sections will be processed by the INGRESS tool at regular intervals throughout the day. INGRESS will utilize these data to create class rosters in INGRESS.

INGRESS will utilize the course section, student, and instructor data to create xml data files once per day. These files are uploaded into the USG collaborative LMS and used to create or update course sections and enrollments.

Attendance verification is recorded through the INGRESS Faculty Console by faculty members instructing the collaborative online courses. The attendance verification data are made available automatically to each student's home institution. The institutions will load these data into Banner to update the student registration records.

Grades are entered through the INGRESS Faculty Console by faculty members for the collaborative online course sections they are teaching. These grades are made available automatically to each student's home institution. The institutions will load these data into Banner to update the student registration records.

This document details the set up of Banner to allow data to be successfully shared between Banner and INGRESS.

Overview Complete the following steps to set up Banner to allow data to be successfully shared between Banner and INGRESS.

I. Setti	ng Up Rules and Codes	
1.	Set up term codes and part of term codes	SOATERM
2.	Translate term codes	SOAXREF
3.	Establish enrollment status codes	SFAESTS
4.	Establish registration status codes	STVRSTS SFARSTS
5.	Establish the integration configuration settings	GORICCR
6.	Create an integration partner system code	GTVINTP
7.	Create integration partner system rules	GORINTG
8.	Create a cross reference label	STVXLBL
9.	Translate the integration partner codes	SOAXREF
10.	Build grade codes	SHAGRDE
11.	Register/drop/withdraw students from course sections	SFAREGS Self Service

\downarrow

II. Defining sections, Persons, and Memberships to INGRESS						
	1.	Execute ZSRGDIS	ZSRGDIS			
	2.	INGRESS Processing				
		\downarrow				

1. Faculty enters attendance verification data through INGRESS	II. Loading Attendance Verification Data					
	Faculty er through IN	ters attendance verification data	a			
2. Execute ZSRIAVR ZSRIAVR	Execute Z	SRIAVR	ZSRIAVR			
3. Execute ZHRNOSH ZHRNOSH	Execute Z	HRNOSH	ZHRNOSH			

 \downarrow

IV.	IV. Loading Grade Data						
	1.	Faculty enters grade data through INGRESS					
	2.	Execute ZSRGRLD	ZSRGRLD				
\downarrow							
V.	V. Clearing Log Table Entries						
	1.	Execute ZSRCLRL	ZSRCLRL				

Implementing the Banner Components of INGRESS

I. Setting Up Rules and Codes

Overview

Institutions need to set up codes and rules in Banner before extracting data to load into INGRESS. The extraction process will select data for submission to INGRESS based on the codes and rules established in this section.

1. Set up term and part of term codes for the reporting term

Set up term codes on the Term Control form (SOATERM).

Term Control SOATERM 8.5 00000000000000000000000000000000000	\sim						
Term: 201208 👻 Fall 2012							
Schedule CRN Starting Sequence Number: 10004							
Registration In Progress Hold Password: HPW Permit Re-Admit: Calculate Time Status Include Attempted Hours Future Terms for Repeats	Registration Fee Assessment Online Assessment Online Assessment Reverse Non Tuition/Fee Charges Track by CRN Refund by Total Effective Date: Allow Swapping Original Charge Cutoff Date: 15-AUG-2012 Section Fees by Study Path						
Gradebook Parameters Process Gradebook Controls	Title IV Date Source • Term Date OPart-of-Term Dates						
Web Self-Service, Voice Response and Partner Systems							
Fee Assessment	Control Settings						
On-line Assessment O Batch Update Batch Only O Not Available	Print Bill Aster Web Term Control Process Web Control						

Define the part of term code(s) for the reporting term on the Part of Term and Web Registration Controls block. No special part of term value is required to be defined for use with INGRESS.

ntrol SOATERM	8.5										140
201208	Fall 2012	SOATERM 8.	5 100000		******						র স
Part of Term Description	Start Date	End Date	Number of Weeks	Census One Date	Census Two Date	Incomplete Extension Date	Section Override	Faculty Web Midterm Grades	Faculty Web Final Grades	Faculty Web Wait List	
Full Term	05-AUG-2012	15-DEC-2012	16	10-OCT-2012	10-DEC-2012						
											•
	201208 Carrier and Web Reg Part of Term Description Full Term	Part of Term f Description Full Term f f Full Term f f Full Term f f f f f f f f f f f f f f f f f f	Introl SOATERM 8.5	Part of Term f SoarterM 8.5 20120 Part of Term f Start Date Date Date Date Part f Date Date Date Date Date Date Date Date	Part of Term f Start End Description Date Date Part Term f Start End Weeks Date Full Term 05-AUG-2012 15-DE-2012 16 05-AUG-2012 15 05 05 05 05 05 05 05 05 05 05 05 05 05	Part of Term	Introl SOATEENI 9.5 201208 ▼ Fail 2012 erm and Web Registration Controls SOATEENI 9.5 Part of Term f Start End of One Two Extension Date Date Weeks Date Date Date Full Term 05-AUG-2012 15-DEC-2012 18 10-OCT-2012 10-DEC 2012 10-DEC 2012 10-DE	Part of Term f SoATEFM 8.5 Part of Term f Start Date Date Date Date Date Date Date Dat	Number Census Census Incomplete Faculty Part of Term Incomplete Etension Section Web Midterm Dosecription Date Date Date Date Date Date Date Date	Part of Term f SoATEFM 9.5 Part of Term f Start Date Date Date Date Date Date Date Dat	Part of Term

*** Dates and codes shown here are for example only and are not an indicator of the codes and dates your institution utilizes.

2. Translate term codes

Translate the Banner term code for the reporting term to its equivalent Regents term code value on the EDI Cross Reference Rules form (SOAXREF) using Cross-Reference Label value "RGTTERM". The "Banner Value" is the value the institution uses in Banner; the "Electronic Value" is the Regents Term Code equivalent.

EDI Cross-Refe Cross-Refere	nce Label: RGT	Copy Table: 👔					
Cross-Refe Electronic Label	erence Rules Electronic Qualifier	Electronic Value	EDI	Web	XML	Banner Value	Description
RGTTERM		20082				200708	Fail 2007
RGTTERM		20084				200802	Spring 2008
RGTTERM		20091				200805	Summer 2008
RGTTERM		20092				200808	Fall 2008
RGTTERM		20094				200902	Spring 2009
RGTTERM		20101	 Image: A start of the start of			200905	Summer 2009
RGTTERM		20102				200908	Fall 2009
RGTTERM		20104	 Image: A start of the start of			201002	Spring 2010
RGTTERM		20111	 Image: A start of the start of			201005	Summer 2010
RGTTERM		20112				201008	Fall 2010
RGTTERM		20114				201102	Spring 2011
RGTTERM		20121				201105	Summer 2011
RGTTERM		20122				201108	Fall 2011
RGTTERM		20124				201202	Spring 2012
RGTTERM		20131				201205	Summer 2012
RGTTERM		20132				201208	Fall 2012
RGTTERM		20134				201302	Spring 2013
RGTTERM		20141				201305	Summer 2013

3. Establish enrollment status codes

Define enrollment status rules in the Enrollment Status Control Form (SFAESTS), if needed. No special enrollment status codes have been established for integration with INGRESS.

Enrollment Sta Term: 2012	atus Control Form SFAESTS 8.0 28339333 208 💌 Fall 2012		20020020000000000000000000000000000000
Enrollment Status	t Status Dates Description	Start Date	End Date
	Administrative Withdrawal Eligible to Register Withdraw Student-W	15-AUG-2012 10-MAY-2012 15-AUG-2012	15-DEC-2012 15-DE

*** ESTS codes and dates shown here are for example only and are not an indicator of the codes and dates your institution utilizes.

4. Establish registration status codes

Define registration status codes on the Course Registration Status Code Validation form (STVRSTS), if needed. No special registration status codes have been established for integration with INGRESS. Be sure that values for the Status Type field have been defined for all codes.

tatus Code	Description		Auto Grade	Print on Schedule	Status Type		Web Indicator	Extension Indicator	System Required	Activity Date	
НW	Hardship Withdrawal		W		Withdrawn	¥				27-FEB-2007	
LH	LS Hardship Withdrawal		W*		Withdrawn	-				27-FEB-2007	
MW	Military Withdrawal		MW		Withdrawn	*				27-FEB-2007	
NP	WD Paymnt Pln/Fis Afrs - W		W	Image: A start and a start	Withdrawn	-				27-FEB-2007	
NQ	WD Paymnt Pln/Fis Afrs - W*		W*		Withdrawn	*				27-FEB-2007	
PP	Do not use					-				04-MAY-2000	
RE	**Registered**				Registered	-			 Image: A start of the start of	08-JUN-2006	
RG	Register - GOML				Registered	-				01-SEP-2009	
RS	Reinstated Student				Registered	-				01-MAR-2005	
₹₩	**Web Registered**				Registered	*				22-AUG-2006	
WΑ	WD Before Mid-Term - W*	7	W*	v	Withdrawn	-				27-FEB-2007	
WB	WD After Mid-Term - WF*		WF*		Withdrawn	*				27-FEB-2007	
WC	WD All Before MT- W*		W*		Withdrawn	-				27-FEB-2007	
WD	WD All After MT - WF*		WF*		Withdrawn	*				27-FEB-2007	
WE	WD Before Mid-Term - W		W		Withdrawn	-				27-FEB-2007	
WF	WD After Mid-Term - WF		WF		Withdrawn	*				27-FEB-2007	
WL	Wait List				Withdrawn	-	 Image: A start of the start of			27-FEB-2007	
WS	WD All Courses Before - W		W		Withdrawn	*				27-FEB-2007	
WТ	WD All Courses After - WF		WF		Withdrawn	-				27-FEB-2007	
ww	**Web Withdrawal**		W		Withdrawn	-				27-FEB-2007	
XR	Cancel Registration				Dropped	-				12-SEP-1997	

*** RSTS codes and settings shown here are for example only and are not an indicator of the codes and settings your institution utilizes.

Define course registration rules in the Course Registration Status Form (SFARSTS). Define codes for each relevant part of term. No special part of term codes or registration status codes have been established for integration with INGRESS.

🧿 Course F	Registration Status Form SFARSTS 8.0 000000000000	******************			000000000000000000000000000000000000000	Ξ×
Term:	201208 💌 Fall 2012	Part of Term	n: 1 💌 Full Term			
Course	e Registration Status Dates					
Status	Description	Affected By Student Status	Start Date	End Date	Voice Response Indicator	
DC	Drop Course -The longest title		05-MAY-2012	15-DEC-2012		A
DD	Drop/Delete		05-MAY-2012	15-DEC-2012		
DW	Web Drop		05-MAY-2012	15-AUG-2012		
RE	**Registered**		05-MAY-2012	15-DEC-2012		
RW	**Web Registered**		05-MAY-2012	16-DEC-2012		
wc	WD Course-W		05-AUG-2012	15-DEC-2012		-
						<u> </u>

*** RSTS codes and dates shown here are for example only and are not an indicator of the codes or values your institution utilizes.

5. Establish the integration configuration settings The Integration Configuration Settings form (GORICCR) establishes the rules for integration. The process of 'ELEARNING' is required with the following settings:

- ACTIVE_TERM: The current processing term(s) must be set up as an active term.
- ICEMAIL: The email type identifying which email address will be extracted for each person. If this rule is not established, all persons to be extracted to report to INGRESS must have the "Preferred" flag set on one email address on the SPAIDEN form, EMAIL tab, or on form GOAEMAL.

R Integration C	onfiguration Settings	GORICCR 8.1	2000000000					*********	200000	0000000000	≪ ≚ ×
Process: Setting:	ELEARNING ACTIVE_TERM			eLearning Integrat	tion rules						
Configura	tion Settings										
Setting:	ACTIVE_TERM			 Active Term 					Se	quence:]
Value:	201202										٦.
Description	C Spring 2012					User ID:	KGRAY	Activity	Date:	20-JAN-2012	
Translation										6	2
Setting: Value:	ACTIVE_TERM			 Active Term 					Se	quence:	
Description	Summer 2012					User ID:	KGRAY	Activity	Date:	21-MAY-2012	
Translation										4	2
Setting:	ACTIVE_TERM			 Active Term 					Se	quence:	
Value:	201208										
Description	Fall 2012					User ID:	KGRAY	Activity	Date:	22-MAY-2012	
Translatior										6	2

6. Create an integration partner system code Create a new integration partner system code in the Integration Partner System Code Validation form (GTVINTP). Use the 'INGR' code with a description of 'INGRESS'.

Integration Partner System	Description	User ID	Activity Date
<mark>GR</mark>	INGRESS	KGRAY	21-JUL-2010

7. Create integration partner system rules

Each course section that will share information through INGRESS will be assigned an Integration Partner Value that will indicate whether the section is a sending or a receiving section of the shared course.

Create integration partner rules on the Integration Partner System Rules form (GORINTG). The following Integration Partner codes are suggested: 'ISEND' with a description of 'INGRESS Sending Section'; and 'IRECV' with a description of 'INGRESS Receiving Section'. Institutional values can be substituted, and multiple values can be used if desired. The corresponding Cross Referenced Partner System will be set to 'INGR' for all codes.

🧑 Integration Pa	artner System Rules GORINTG 8.0	000000000000000000000000000000000000000		******	2000000000000 ≚ ×
Integration Partner Value	Description	Cross Referenced Partner System	Description	User ID	Activity Date
IRECV	INGRESS Receiving Section	INGR	INGRESS	KGRAY	21-JUL-2010 🔺
ISEND	INGRESS Sending Section	INGR	INGRESS	KGRAY	21-JUL-2010

8. Create a cross reference label Create a cross reference label in the EDI Verification Label Validation form (STVXLBL). Use the code 'RGTGPIC' and the description 'INGRESS Partner Integr Code'

EDI Verification Label Validation	n STVXLBL 8.0 🔅	******************			*******************	≚×
EC	DI Label Code	Description	System Required	Activity Date		
R	GTGPIC INGRES	SS Partner Integr Code		21-JUL-2010		-

9. Translate the integration partner codes

Each Integration Partner Code must be translated on the EDI Cross-Reference Rules form (SOAXREF). The translation will allow INGRESS to identify whether each code indicates a sending or a receiving section. Translate the code(s) for sending sections to the Electronic Value 'S', and the code(s) for receiving sections to the Electronic Value 'R'.

LEDI Cross-Reference Rules SOAXREF 8.0										
Cross-Reference Rules										
Electronic Label	Electronic Qualifier	Electronic Value	EDI	Web	XML	Banner Value	Description			
RGTGPIC	1	R				IRECV	INGRESS Receiving Section			
RGTGPIC	1	S				ISEND	INGRESS Sending Section			

10.Build grade codes

Build the grade codes in the Grade Code Maintenance form (SHAGRDE), if needed. No special grade codes have been established to be utilized for INGRESS.

Grade C	ode Ma	intenance S	HAGRDE	8.3	000000		00000	00000			*****	********	00000		1000000		000000000 ≚
Grade Code	Level	Abbreviatio	n Term	Statu: Ind	s Quality Points	Attempted	Count Passed	in I Earne	d GPA	Fraditior Ind	In al Ind	complete Grade Default	Web Ind	Numerio Value	At c Repeat Ind	Las tenda Date Ind	t Ince Activity Date
A	01	A-UNDER	000000	A	4.000		~		~	1				80	v		16-MAY-1997
A#	01	A-ACDRW	000000	A	4.000		~							80			16-DEC-2004
A%	01	A/CPC	000000	A	4.000		v		-					80			16-DEC-2004 ;
A%^	01	A/NOCR	000000	A	4.000	v								80	v		16-DEC-2004
A*	01	A-LS	000000	A	4.000	v	v						-	0	 Image: A start of the start of		11-AUG-1998
A*^	01	A/LSNC	000000	A	4.000		1							0			16-DEC-2004
A^	01	A/NOCR	000000	A	4.000		v							80	v		16-DEC-2004
A_	01	A TRANS	000000	A	4.000									80			28-JUN-2005
в	01	B-UNDER	000000	A	3.000		v			1				60			16-MAY-1997
B#	01	B-ACDRW	000000	A	3.000									60			11-MAY-2006

*** Grade codes and settings shown here are for example only and are not an indicator of the codes and settings your institution utilizes.

11.Define sections and assign integration partner codes

On the Schedule form (SSASECT) assign an integration partner code to all collaborative online course sections that should be processed by INGRESS. This code will indicate that the section will be shared with other institutions, as well as indicate whether the section is a sending or a receiving section of the shared class.

Schedule SSASECT 8531 000000000000000000000000000000000000				ana
Term: 201208 CRN: 10001 Create CRN	🖗 Copy CRN: 🖗 Subject:	INGR Course: 12	34 Title: ING	RESS Test Course 1234
Course Section Information Section Enrollment Inform	ation Meeting Times and Instruct	tor Section Prefer	ences	
[
Subject: INGRESS		CEU Indicator:		
Course Number: 1234 💌 Title: ING	GRESS Test Course 1234	Credit Hours:	3.000 O None	e 🔿 To 🖲 Or 🛛 6.000
Section: 01 💌		[
Cross List:		Billing Hours:	3.000 O None	e ⊂ To ® Or 6.000
Campus: 🛛 🔍 Main Campus		[
Status: A Active		Contact Hours:	3.000 O None	e OTO ® Or 6.000
Schedule Type: 2 🛡 Distance Instruction				
Instructional Method: F Fully at a distance		Lecture:	3.000 O None	e OTO ® Or 6.000
Integration Partner: ISEND VINGRESS Sending	g Section	[
Grade Mode: 📃 💌		Lab:	• None	9 °T0 °Or
Session:				
Special Approval:		Other:	@ None	9 ○T0 ○Or
Duration:		[
Part of Term: 1 💌 05-AUG-2012	15-DEC-2012 16	Link Identifier:		
First La	st	Attendance Meth	ed: 💽 💌	
Registration Dates:		Weekly Contact H	Hours:	
Start Dates:		Daily Contact Ho	ours:	
Maximum Extensions: 0		✓ Print	✓Voice Response	e and Self-Service Available
Prerequisite Check Method:	CAPP O DegreeWorks	🗹 Gradable	Tuition and Fee	e Waiver
		Long Title	Comments	Syllabus

12.Register/drop/ withdraw students in course sections

Students register/drop through Self Service Banner for all course sections that are part of the collaborative online programs just as they would for any other course section. Students can also be administratively registered, dropped, or withdrawn for course sections through the Student Course Registration form (SFAREGS).

II. Defining Sections, Persons, and Memberships to INGRESS

Overview	The INGRESS Data Extract process (ZSRGDIS) extracts data for shared course sections and makes it accessible for processing by INGRESS. Basic course data, along with information for assigned instructors and enrolled students, are extracted from Banner and stored in the INGRESS intermediate tables housed within the institution's Banner database. These data are used by INGRESS to perform seat balancing functions among multiple institutions sharing the course sections, as well as to define courses, sections, instructors, students, and memberships in the USG collaborative LMS. After INGRESS performs seat balancing functions, the section enrollment data (viewable from the Schedule form (SSASECT), Enrollment Data block) is automatically updated with the calculated maximum and available seats for each section.
Frequency	The ZSRGDIS process should be run to extract course section data whenever new sections are defined and assigned an INGRESS integration partner code, when information for a previously defined section is changed, or when a course section is inactivated or reactivated. It can also be run any number of times during the day for the purpose of updating class rosters in INGRESS. It is <i>not</i> necessary to run ZSRGDIS to pick up changes in enrollment counts.
	The ZSRGDIS process should be run to pull updated course section, person, and membership data once a day just prior to the daily automated pull of data to be loaded into the USG collaborative LMS.
	The process can be run multiple times per day as needed.
1. Execute ZSRGDIS	The INGRESS Data Extract Process is executed from Job Submission (GJAPCTL). The process selects course sections in Banner that have been flagged as sections for which INGRESS should perform seat balancing calculations. If specified, the process will also extract information for assigned instructors and enrolled students. All instructors assigned to these sections and all students with enrollment activity in these sections will be processed by the ZSRGDIS process. A population selection can be used to limit the persons processed; however, it must be used every time the process is run.
	The process will create a .lis and a .log file. The .lis file will contain success and error messages related to those records being extracted from Banner. The .log file will contain general processing messages and may include

error messages not specifically related to a particular data record.

Parameters for ZSRGDIS

ZSRGDIS

Processing Notes

No	Name	Required	Description/Instructions	Default Values
01	Application Code	No	Application Code of the Population Selection	
02	Selection ID	No	ID of the Population Selection	
03	Creator ID	No	ID of the Creator of the Population Selection Rules	
04	User ID	No	ID of the User who selected the Population	
05	Term	Yes	Term for processing. Must be valid on SOATERM	
06	Extract Persons/Memberships	Yes	Y=Yes; N=No	Y
07	Update Person Record	Yes	Update person record data in Vista	Ν

Course sections can be inactivated by one of two methods:

 Set the Status field on the Schedule form (SSASECT) to a value indicating that the section is inactive. This will require the removal of enrollments, instructors, and meeting times prior to inactivating the section. Note that the Status code must be defined on the Section Status Code Validation form (STVSSTS) as Inactive ("Active" field must NOT be checked).

OR

2. Remove the integration partner code value on the Schedule form (SSASECT). This will remove the section from processing through INGRESS and will cause the section and enrollments to be inactivated within INGRESS; however, the section will still be active within the institution's Banner system. The section can be reactivated for INGRESS processing by reinstating the value of the Integration Partner field.

INGRESS automatically processes person data changes for the INGRESS class rosters; however, these changes are not automatically passed on to update person data in the LMS. Parameter 07,"Update Person Record", is used to indicate whether these changes should be sent to the LMS. Changes include name changes, email changes, and third party ID (LMS login id) changes.

Sample Files Samples of the .log and .lis files follow.

Sample zsrgdis_{nnnnn}.lis

09-11-2012 11:47:31 Banner Run No. 830230 INGRESS/Vis	r Test Database sta Extract Process	PAGE: 1 ZSRGDIS 8.15.1
Section Data Errors		
Person Record Errors		
09-11-2012 11:47:31 Banner Run No. 830230 INGRESS/Vi * * *	r Test Database sta Extract Process CONTROL REPORT * * *	PAGE: 2 ZSRGDIS 8.15.1
Parameter Description	Parameter Value(s)	
Application Selection Creator User ID Term Code Extract Persons/Memberships Update Person Record	201208 Y N	
Number of active sections inso Number of active sections updo Number of active memberships Number of active memberships of Number of active persons inse Number of active persons updat	erted: 0 ated: 2 inserted: 2 updated: 12 rted: 0 ted: 9	

Sample zsrgdis_{nnnnn}.log



2. INGRESS Processing

The data extracted by the ZSRGDIS process are used by INGRESS to perform seat balancing functions among multiple institutions sharing the course section, as well as to define courses, sections, instructors, students, and memberships in both INGRESS and the USG collaborative LMS.

INGRESS will run seat balancing processes automatically at timed intervals throughout the day. Calculations are based on the maximum seats for the shared section (as defined by the sending institution), the number of filled seats, and the number of institutions sharing the section. After INGRESS performs seat balancing functions, the section enrollment data (viewable from the SSASECT form, Enrollment Data block) are automatically updated with the calculated maximum and available seats for each section.

gSchedule SSASECT 8.6.3.1 00000000000000000	************************************	$\simeq \times$
Term: 201208 T CRN: 10001 T Create C	RN: 🖗 Copy CRN: 🖗 Subject: INGR	Course: 1234 Title: INGRESS Test Course 1234
Course Section Information Section Enrollment In	formation Meeting Times and Instructor	Section Preferences
Enrollment Details Reserved Seats		
Enrollment Details Maximum: Actual: Remaining:	nitlist Maximum: 0 Nitlist Actual: 0 Nitlist Remaining: 0 Led Credit Hours: 15.000	Projected: 0 Prior: 0 Reserved
Census One Enrollment Count: 3 Freeze Date: 10-SEP-2012	Census Two Enrollment Count: 3 Freeze Date: 10-OCT-2012	

INGRESS will automatically pull and process person and membership information at timed intervals throughout the day to build class rosters in INGRESS. Once per day these data are pulled and used to create XML data files for consumption by the LMS. Institutions should run the ZSRGDIS process at least once each day prior to the daily LMS data pull. If updates to class rosters in INGRESS are desired more often, ZSRGDIS can be run multiple times per day. The default value of 'Y' should be indicated for the "Extract Persons/Memberships" parameter.



More information on the INGRESS tool can be found at the INGRESS Commons:

https://sharepoint.bor.usg.edu/team_sites/ingress/SitePages/Home.aspx

III. Loading Attendance Verification data

- Overview Attendance verification data for collaborative online program course sections will be collected through the INGRESS tool and made available to participating institutions. Processing of these data in Banner is a two-step process consisting of the ZSRIAVR process and the ZHRNOSH process.
- Frequency The ZSRIAVR and ZHRNOSH processes may be run at any time during the term as frequently as needed. However, it is recommended that the processes are executed following the attendance verification deadline set by the institution. Each time the process is run only the data that has not yet been processed will be loaded.
- Faculty Enter Attendance Verification Data through INGRESS
 Faculty members will enter attendance verification information through the INGRESS Faculty Console for the courses they are instructing for the term. Attendance verification will be entered *once per term* for each course enrollment. Once data entry is complete and attendance verification is submitted for a particular course section, that data is stored in an INGRESS data table. At timed intervals, INGRESS copies these data to an INGRESS intermediate table, ZSRAVER, at each institution sharing the course section. It is stored here until the institution executes the ZSRIAVR process.



More information on the INGRESS tool can be found at the INGRESS Commons:

https://sharepoint.bor.usg.edu/team_sites/ingress/SitePages/Home.aspx

2. Execute the ZSRIAVR Process

The Attendance Verification Load process (ZSRIAVR) is used to load attendance verification information into Banner for course sections that are processed by INGRESS. The process reads data that has been stored in the ZSRAVER intermediate table and loads the data into the attendance verification temporary table (ZTRNOSH). Only data for absent students will be loaded.

The ZSRIAVR process is executed from Job Submission (GJAPCTL). The process will create a .lis and a .log file. The .lis file will contain record counts and success and error messages related to those records being loaded into Banner. The .log file will contain general processing messages and may include error messages not specifically related to a particular data record.

Parameters for ZSRIAVR

No	Name	Required	Description/Instructions	Default Values
01	Term	Yes	Term for processing. Must be valid on SOATERM	

Sample Files

Samples of the .log and .lis files follow.

Sample zsriavr_{nnnnn}.lis

14-SEP-2012 ZSRIAVR		GOI	Test ML Attend	Banner Databa ance Verificat		PAGE 1		
ID	PIDM	Name	PTRM	CRN	Course Section	Attendance	Message	
678542345	43370	Dee, Weaver	1	10003	T5TX 0002 X1	AP	Student attending - recor	d not loaded.
678542345	43370	Dee, Weaver	1	10004	T5TX 0002 X2	вР	Student attending - recor	d not loaded.
745745745	43384	Knoted, Hope	1	10002	INGR 1234 02	P	Student attending - recor	d not loaded.
253530000	45006	D' Ducky, Rubber	1	10002	INGR 1234 02	P	Student attending - recor	d not loaded.
@00010118	45019	Dog, Under	1	10002	INGR 1234 02	А	Record loaded.	
@00010119	45025	Apples, Ruby	1	10003	TSTX 0002 X1	A A	Record loaded.	
@00010119	45025	Apples, Ruby	1	10004	TSTX 0002 X2	ΒA	Record loaded.	
14-SEP-2012 ZSRIAVR	12:09:38		GOI	Test ML Attend	Banner Databa ance Verificat	se ion Load		PAGE 2
				* * * REP	ORT CONTROL IN	FORMATION - Z	SRIAVR 8.4.3 * * *	
RPTNAME: ZSR	IAVR							
Term Code: 2	01208							
RECORD COUNT	: 7							
RECORDS LOAD	ED: 3							

Sample zsriavr_{nnnnn}.log

Username: Connected.	
Run Sequence Number Connected. Connected.	

All records loaded into the temporary table will be displayed on the ZHANOSH form.

🙀 Attenda			OSH 8.2 🕻		000000	00000000	0000000	00000000		0000000			999990 <u>≤</u> ×
▼ Ter ▼ I	m: 201:	208 Fall 201	2		▼ (RN:							
Select	Term	ID	Part of Term	Campus T	Level	CRN	Subject	Course	Section	Hours	Course Title	ID	
	201208	@00010118	1	A	GS	10002	INGR	1234	02	3.000	INGRESS Test Course 1234	776655443	
	201208	@00010119	1	A	FP	10003	TSTX	0002	X1A	2.700	TSTX 0002 Test Course		
	201208	@00010119	1	A	FP	10004	TSTX	0002	X2B	2.700	TSTX 0002 Test Course		
	\square												

3. Execute the ZHRNOSH Process Attendance Verification data are stored in the ZTRNOSH temporary table until final processing is run using the Attendance Verification Process (ZHRNOSH). ZHRNOSH will read data that has been stored in the ZTRNOSH temporary table and update the Banner registration records for absent students.

Audit mode for this process allows the user to verify the records to be updated. Update mode will change the registration status for the course sections included as part of attendance verification.

The ZHRNOSH process is executed from Job Submission (GJAPCTL). The process will create a .lis and a .log file. The .lis file will contain record counts and success and error messages related to those records being loaded into Banner. The .log file will contain general processing messages and may include error messages not specifically related to a particular data record.

Parameters for ZHRNOSH

				Default
No	Name	Required	Description/Instructions	Values
01	Process Term	Yes	Enter Banner term code to be processed.	
02	Part-of-Term Code	Yes	Enter a specific P-O-T from SFARSTS or % for all P-O-T.	
03	Enter Drop/Withdrawal Code	Yes	Enter RSTS code to used to update course registration status on SFAREGS	
04	Run Mode	Yes	(A)udit mode provides a list of records to be updated.(U)pdate mode updates the student registration record.	

Sample File

A sample of the .lis file follows.

Sample zhrnosh_{nnnnn}.lis

	14-Sep-12	at 12:22:28	Banner Test Attendance	Databa Verific	se ation				Page: 1 ZHRNOSH
	ID	NAME		TERM	PTRM	CRN	MESSAGES		
	@00010118	Dog, Under Dunder		201208 Total C	1 lass E	10002 nrollmen	***Processed t for 10002 :	Successfully*** 2	
	@00010119	Apples, Ruby Red		201208 Total c	1 lass E	10003 nrollmen	***Processed t for 10003 :	Successfully*** 2	
	@00010119	Apples, Ruby Red		201208 Total C	1 lass E	10004 nrollmen	***Processed t for 10004 :	Successfully*** 1	
	14-Sep-12	at 12:22:28	Banner Test Attendance * * * REPOF	Databa Verific T CONTR	se ation OL INF	ORMATION	- ZHRNOSH - (GAMOD 8.6 * * *	Page: 2
	Run Mode : Term Code Part-of-Te RSTS Code Students U Report Lir	: U : 201208 erm Code : % : DC updated : 3 ne Limit : 55							
	Record Cou	int:3							
	Run ended	on 14-5ep-12 at 12:	22:29						
- 1									
	**** Proce	ess completed succes	sfully. ***	k 🕸					

Georgia Enhancements 8.15.1 User Documentation Banner Components for INGRESS

4. Verify Loaded Attendance Verification Data

When run in (U)pdate mode, results of ZHRNOSH processing can be viewed from the SFAREGS form for the term, courses, and students processed. ZHRNOSH will update the registration status code for the student's class enrollment to the RSTS code entered in parameter 3.

Student Course Registration SPAREGS 8.5.3.1				0000000000000000 ≚×]			
Term: 201208 V ID: @00010118	Dog, Under D. View Current/Active	Curricula Print Bi	Date: 14-SEP-2012 ा⊞ ⊢ II ☑ Print Schedule S	Holds: 📃 🔻			
Enrollment Information	Study Path Time Status		Hours S	ource Acceptance			
Status: EL VEligible to Register Reason: V	Process Blo Status Date: 24-MAY-2012	CK: M Delete All CRNs M	inimum: .000 V M aximum: 999999.999 V M	MHRS None AHRS Accepted			
Study Path: 💌 Enrollment Status: 🔍 Process Block: Registration Allowed 🛛 🗘							
		**!					
Course Information Grad CRN Subject Course Section Mod	e Credit Bill Attempted e Hours Hours Hours	Time Status Ap Hours Status Level Re	Meti pr Part of o cci Override Term Instru	hod f Study iction Campus Path			
Course Information Grad CRIN Subject Course Section Mod V V V V V V V 10002 INGR 1234 02 N	e Credit Bill Attempted e Hours Hours 0000 0000 0000 0000	Time Status Ag Hours Status Level Re	Metti ppr Part of or locd Override Term Instru	hod f Study iction Campus Path			
Course Information Grac CRN Subject Course Section Mod V V V V V V 10002 INGR 1234 02 N Registration statu	e Credit Bill Attempted e Hours Hours Hours 0000 0000 is updated	Time Status Af Hours Status Level R	Part of or ccd Override Term Instru	study f Study ction Campus Path			

IV. Loading Grade Data

Ov	verview	Grade data, both midterm and final, for collaborative online course sections will be collected through the INGRESS tool and made available to participating institutions. Processing of these data in Banner is accomplished by executing the Grade Load process (ZSRIGRD).
Fre	equency	The Grade Load process can be executed at any time during the term; however, it is recommended that the process is executed following mid-term grade assignments (if applicable) and final grade assignments. Each time the process is run only the data that has not yet been processed will be loaded.
1.	Faculty Enter Grades Data through INGRESS	Faculty members will enter grades through the INGRESS Faculty Console for the courses they are instructing for the term. Once data entry is complete and grades are submitted for a particular course section, that data is stored in an INGRESS data table. At timed intervals, INGRESS copies these data to an INGRESS intermediate table, ZSRGRLD, at each institution sharing the course section. These data will be processed to create grade entries in Banner using the ZSRIGRD process.
		More information on the INGRESS tool can be found at the INGRESS Commons: <u>https://sharepoint.bor.usg.edu/team_sites/ingress/SitePages/Home.aspx</u>
2.	Execute the ZSRIGRD	The Grade Load process (ZSRIGRD) loads into Banner grades assigned to students for course sections processed by INGRESS.

ZSRIGRD reads the data that has been stored in the ZSRGRLD intermediate table and loads the data into Banner.

ZSRIGRD is executed from Job Submission (GJAPCTL). The process will create a .lis and a .log file. The .lis file will contain record counts and success and error messages related to those records being loaded into Banner. The .log file will contain general processing messages and may include error messages not specifically related to a particular data record.

Parameters for ZSRIGRD

Process

No	Name	Required	Description/Instructions	Default Values
01	Term Code	Yes	Enter Banner term code for the grades to be processed.	
02	Grade Type	Yes	Enter 'F' to process final grades, 'M' to process mid-term grades, or 'B' to process both final and mid-term grades.	

Sample File

A sample of the .lis file follows.

Sample zsrigrd_{nnnnn}.lis

19-AUG-20 ZSRIGRD	10 11:35:0	8 Banner Test Database GOML Grade Load			PAGE 1
ID	PIDM	NAME	COURSE SECTION	GRD DIFF STATUS	
001122337 100000010 100000012	1000587 90164847 90164849 	Tucker-Smith, willy d'Artagnan, Charles du Vallon, Porthos CRN: 80449	INGR 1000 Y01 INGR 1000 Y01 INGR 1000 Y01 INGR 1000 Y01	B Final grade loaded. B Final grade loaded. A Final grade loaded. Section Final Grades Processed Date: UPD	ATED
100000014 932066118	90164853 90164842 	Fizzwhistlebugmierbagginstopbuggyma Hill, Barbara CRN: 80450	INGR 1000 Y02 INGR 1000 Y02 INGR 1000 Y02	NG Not registered; Not graded A Final grade loaded. Section Final Grades Processed Date: UPD	ATED
19-AUG-20 ZSRIGRD	10 11:35:0	8 Banner Test Database GOML Grade Load			PAGE 2
* * * REP	ORT CONTRO	L INFORMATION - ZSRIGRD 8.4.3 * * *			
RPTNAME: 3	ZSRIGRD				
TERM: 201	008				
Grade Typ	e: F				
Record Co	unt: 5				
Records R	EJECTED fo	r Invalid Student ID or Course Sectio	in: 0		
Section F	inal Grade	s Processed Date Updated Count: 2			
Section F	inal Grade	s Processed Date Updated ERRORS: 0			

3. Verify loaded grade records

Loaded grades can be viewed in the Class Roster form (SFASLST) for the term, courses, and students processed.

🤠 Class R	oster SFASLST	8.3.0.2 000000000000	000000000	***********		********	000000	000000000000000000000000000000000000000			<≚×
Term:	201008 🛡 Fa	ill Semester 2010	CRN:	80449 VING	iR 1000 Y()1 🗖 R(oll	Degre	e Award Status:	Select	Y
Sequer	nce ID	Name	Status	Status Date	Midterm Grade ▼	Final Grade V	Grade Mode	Incomplete Final Grade	Extension Date	Hours	
Rolled	Grade C	omment:	▼I	19-M00-2010			IN			3.000	^
2 Rolled	100000012 Grade C	du Vallon, Porthos d.	RE	19-AUG-2010		A	N			3.000	
3 Rolled	100000010 Grade C	d'Artagnan, Charles d. omment:	_ RE	19-AUG-2010		В	N			3.000	
Rolled	Grade C	omment:									
Rolled	Grade C	omment:	•								

V. Clearing Log Table entries

Overview	The INGRESS Log Table Clearing process (ZSRCLRL) will delete entries from the INGRESS log table, ZSRSMGL, which were generated on or prior to the date supplied as a parameter.
	Each time the INGRESS seat balancing process is initiated, 2 entries are made in the ZSRSMGL log table, one when the ZSRSMG1* process is executed, and one when the ZSRSMG2* process is executed. If errors are encountered during execution they are also logged into this table. Over time, the log table accumulates a large number of entries, many of which are no longer needed for troubleshooting purposes after a period of time. ZSRCLRL provides a means of clearing entries from the table.
	*Note: ZSRSMG1 and ZSRSMG2 are stored procedures that are executed automatically when INGRESS performs seat balancing functions.
Frequency	ZSRCLRL can be run at any time during the term as frequently as needed. It is recommended that not all records be deleted from the table unless necessary. Deleting old data records and retaining more recent entries at regular intervals is highly recommended.
1. Execute the ZSRCLRL Process	ZSRCLRL is executed from Job Submission (GJAPCTL). The process will create a .lis and a .log file. The .lis file will contain counts of records to be deleted (in Audit mode) or deleted (in Update mode) by the process. The .log file will contain general processing messages.

Parameters for ZSRCLRL

No	Name	Required	Description/Instructions	Default Values
01	Run Mode	Yes	Enter "A" for Audit Mode, "U" for Update Mode	А
02	Date	Yes	Delete all entries through this date – Format DD-MON-YYYY (default delete all)	30-DEC-9999

Sample File Samples of the .lis and .log files follow.

Sample zsrclrl_{nnnnn}.lis

04-14-2011 at 10:35:30	Test Banner Database INGRESS Log Clearing Process	PAGE 1 ZSRCLRL				
* * * REPORT CONTROL INFORMATION * * *						
Zancinc 6.7.1 Num Mode : U Date : 30-DEC-9999 Report Line Limit : 55 Number of Records Deleted : 353						
ZSRCLRL 8.7.1 completed successfully						
Sample zsrciri (nnnnn) log						
		1				
Username: Connected.						
RUN SEQUENCE NUMBER: zsrclrl completed successfully 16 lines written to /home/banjob/zsrclrl_823045.lis						

ZSRCLRL 8.7.1 completed successfully Connected. Connected.

Appendix A: Document History

This section details the history of the document and updates made for each modification.

Release and Date	Form/Process	Page	Update Description
Georgia Enhancements 8.4.1, September 17, 2010			Initial release
Georgia Enhancements 8.4.3, October 2010	ZSRSMG1 ZSRSMG2	N/A	Enhanced functionality for stored procedures to more efficiently handle locked data records.
Georgia Enhancements 8.7.1, June 2011	ZSRGDIS ZSRCLRL		 ZSRCLRL – new process. ZSRGDIS updates: Extract values for the section credit hours and CIP code. Extract a value indicating whether a student's registration status indicates that he is registered, dropped or withdrawn. Add additional error checks with corresponding error messages. Add additional information to the process output. Complete processing in a timelier manner. ZSRGDIS corrections: Identify the correct record for PIN retrieval and print an error if the PIN is null. Update error message text to more correctly reflect the error.
Georgia Enhancements 8.11.1, October 2011	ZSRGDIS		 ZSRGDIS correction: Update the course section Start Date in the intermediate table whenever it updates other information for the course section.
Georgia Enhancements 8.15.1, September 2012	ZSRGDIS		 ZSRGDIS enhanced for integration with D2L: Alter the calculation of the End Restrict Date value. The End Restrict Date for each course section is determined by adding 60 days to the end date for Part of Term '1'. Use of the census date for the term following the reporting term has been eliminated. Alter the length of the Course Title field to accommodate up to 50 characters

	Although Banner can only store 30 characters in this field, conversion of special characters can result in Course Title values that exceed 30 characters.
	Document updated to reflect changes and to update screen shots.

Appendix B: Process Flow



Execute ZSRCLRL