



TESTING, TESTING 1-2-3

SESSION 7004 November 5, 2019

CANADA ALLIANCE 4-6 NOVEMBER 2019

PRESENTER

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Background:

- 17 Years in curriculum management: degree audit, catalog, program structure, advising rules at Ryerson University
- Bachelor of Arts Linguistics and Psychology
- "Just because you've never done something before doesn't mean you can't do it."



RYERSON UNIVERSITY

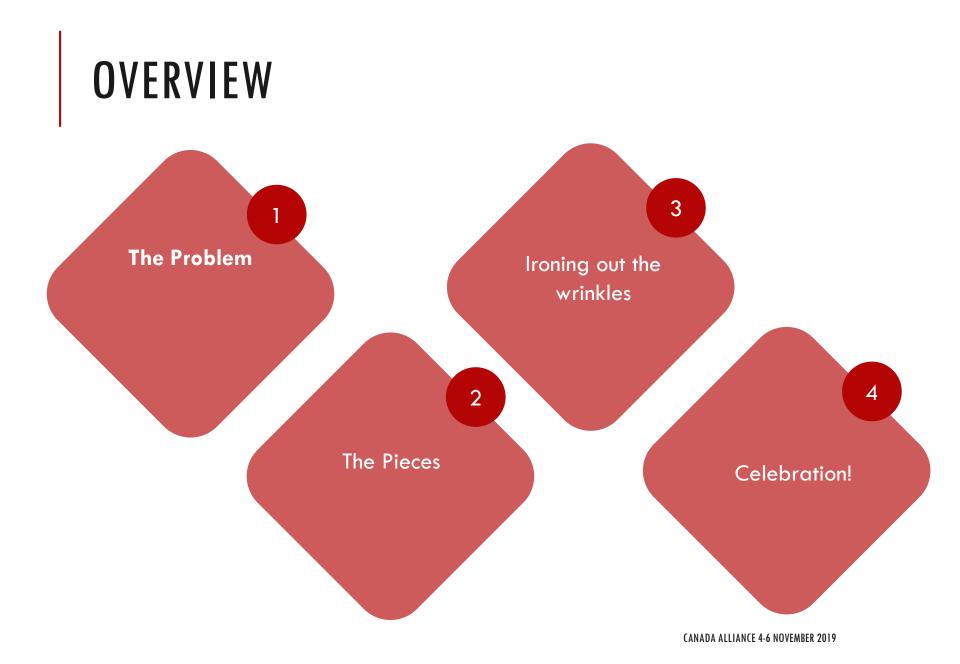
- Over 45,000 students
- Over 110 Undergraduate and Graduate programs



CAMPUS SOLUTIONS 9.2 SINCE 2016 PEOPLETOOLS 8.57

PUM IMAGE 8

CS 8.9 in 2005 CS 9.0 in 2008



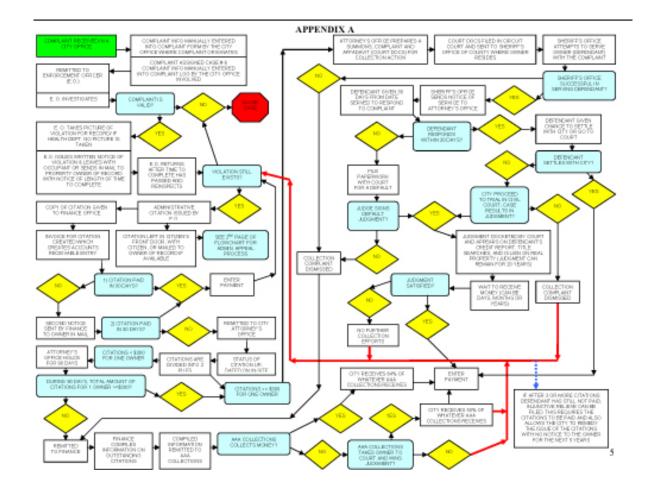


DEFINING THE PROBLEM

Why is this so difficult?

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"THIS IS SO EASY" SAID NO-ONE, EVER.



A FEW IDEAS The basic lightbulb



Permission numbers?

XStill need to verify that they should have permission, and for what, then issue number.

- XAII responsibility would land on department assistant.
- Can only use to permit enrolment in a specific class/section
- XStudents would need a new number every time they changed sections.

THE BETTER BULB



Test Scores?

- ✓ Students already do tests
- ✓ Department already marks test and records score
- ✓ Courses already have requisites
- ✓ Would make the information available to other administrators/Registrar's Office
- ✓ Makes self-service add and swap possible

OH, WHY NOT DREAM BIG?



Entry of score could trigger an email telling the student their score in each test!!

BETTER FIGURE OUT HOW THIS WORKS: FINDING ALL THE PIECES



PHASE 1: Setting up and using Test Results in Requisites

PHASE 2: Automating the communication of test results to students.

GROUNDWORK — JOINT DECISIONS

Which languages?

Prepare for all four, go live with FRE and SPN

Figure out your testing scale.

- Chose to parallel the language course code progressions
- Special codes for French Immersion, native speakers (who else does department screen?)
- >What about multiple tests? Is there a validity period?

Figure out your users

- Who will be able to view/add/update/edit
- Assessor access vs administrator access
- Student service and other viewing?

GROUNDWORK FOR TEACHING DEPARTMENT

Update online test form to make Student ID# a mandatory field.

Provide website information for students to see what their test score means. If your score is X, you can do Y.

Placement Test Score Guide

HOME FRENCH SPANISH To identify the specific range of courses available to you based below that corresponds with your placement test score. Open All Close All Test Score = 1 You may enrol in FRE 101: Introductory French I Test Score = 101 (or completion of FRE 101) Test Score = 201 (or completion of FRE 201) Test Score = 301 (or completion of FRE 301) You may enrol in the following courses: FRE 302: French Food, Wine and Hospitality • FRE 303: French and Fashion FRE 401: Intermediate French II FRE 402: French Conversation and Pronunciation Test Score = 401 (or completion of FRE 401) Test Score = 499 Test Score = 501 (or completion of FRE 501) Test Score = 601 (or completion of FRE 601) Test Score = 999

SETTING UP THE TESTS IN SAS



Test functions are part of the Admissions and Transfer Credit components.

 Batch scores (e.g.: TOEFL, GMAT, SAT, AP) can be articulated to award an actual transfer credit in a course

The pieces:

- The Test Table
- Update Entity Registry Security
- $\circ~$ Set Test ID Security for users
- Set Security to View Admissions Test
 Summary in Student Services Center
 for users

SA_TEST_TABLE

NAVIGATION: RECORDS AND ENROLLMENT > TRANSFER CREDIT RULES > TEST TABLE

Test Tables

Test ID RU_FREN	СН				
Test ID Details			Find View	All First 🕚	1 of 1 🕟 Last
*Effective Date 01/01/1901	*Status Active	v			+ -
*Description RU French	Placement Test				
Short Description RU_FRE					
Testing Agency	•				
Entitiy ID SCC_ENT	TTY_20180601100625				
Test Component Details			Find View All	First 🕢 1 of 1	I 🕟 Last
*Component *Description OVRLL Q Overall	*Short Description Overall	Min Score	Max Score 999.00	Subtest	+ -
🔚 Save 🔯 Return to Search 🖹 Notify			Add 🖉 Update/	/Display 🗾 🗾 Inc	clude History

You must have min/max scores. You must enter a component to be able to use the Test Result page for a specific student.

TEST COMPONENT TABLE

NAVIGATION: RECORDS AND ENROLLMENT > TRANSFER CREDIT RULES > TEST COMPONENT

Test Component Table

Test Component OVRLL	
Test Component Details	Find View All First 🕢 1 of 1 🕟 Last
*Effective Date 01/01/1900	*Status Active
*Description Overall	
Short Description Overall	
🖥 Save 🔯 Return to Search 🔛 Notify 📃 Add 🗾	Update/Display 🗾 Include History 📝 Correct His

UPDATE ENTITY REGISTRY SECURITY

NAVIGATION: SETUP SACR > SYSTEM ADMINISTRATION > ENTITY > ENTITY PROPERTY SYNC

When you save your new test, an Entity ID is created and you will be prompted to Update Entity Registry Security.

*Status Active
Message
Please run Entity Property Sync process to update corresponding Entity Registry definitions. (14097,56)
The record context data has changed. To keep corresponding Entity Registry definitions in sync please run the Entity Property Sync process (Home > Setup SACR > System Administration > Entity > Entity Property Sync)
OK

TEST ID SECURITY FOR USERS

NAVIGATION: SET UP SACR > SECURITY > SECURE STUDENT ADMINISTRATION > USER ID > TEST ID SECURITY > TEST ID SECURITY

Test ID Security

	Find First 🛃 1-3 of 3 🕨	
		Last
	*Access Code +	-
ACT Assessment	No Access 💌 All Access	
	*Access Code +] [=
Scholastic Assessment Test I	Read/Write	
	*Access Code +	
Scholastic Assessment Test II	Read/Write	
	C Scholastic Assessment Test I	ACT Assessment All Access All Acc

Field or Control	Definition
Test ID	Enter a test ID to grant or limit access to it. You define test IDs on the Test Tables page.
Access Code	This value is set to Read/Write, which gives the user both read and write access
All Access	Click to assign access to all recruiting centers, application centers, admissions program actions, or test IDs for the selected user ID and institution combination.

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SET USER SECURITY TO SEE/USE TEST SUMMARY VIEW IN STUDENT SERVICES CENTER

Security is needed to view Test Summary view. Users can only view the test results of tests which they have been granted access to. If a student has only scores in other tests, user will see:

Authorized users can access the student's test page directly from here.

ENTERING SCORES FOR STUDENTS



Authorized administrators can access and update the student test page through either

- the Admissions page in Student Services Center
- The Test Results page in the Transfer Credit component

We also uploaded many scores 'from the back end'

ACCESS FROM ADMISSIONS PAGE

nstitution / Ca	reer / Applicatio	on Nbr / Program	n		Edit Ap	plication Data
DVEDU Due	rson University	1		Application Nbr	06	
	indergraduate			Program Nbr	0	
000-				Program Status	Active in	as of 08/26/2008
	1001 - Business M	lanacement			Program	
- 01	196			Program	IT002	Information Tech. Mgt. PT
- 00	002 - Information	Tech Mat PT		Plan	ENTSYS	Enterprise Sys & Org
				Last School Attended		
				City		
				State		
				Graduation Date		
				Financial Aid Interest Housing Interest		
Applicant Pre	ogression					
			Applicant		Student	
Prospect						
Prospect Institution	Ryerson Unit	versity	Institution	Ryerson University	institution	
	Ryerson Unit Rye Domest		Institution Admit Type		Institution Requirement Term	n

Admit Term	Winter 2007	Admit Term	Fall 2008	Admit Term
Recruiting Status	Applicant	Program Status	Active	Program Status
Status Date	11/08/2006	Program Action		Program Action
Referral Source	Applicant	Action Reason	Admitted Clear	Action Reason
Source Date	11/08/2006	Action Date	08/26/2008	Action Date

Test Summary						E	dit Student Tests	
Test Results					Personalize	View Al 💷 🔜	First d	1 of 1 🛞 Last
Test ID	Test Component	Test Score	Letter Score	Percentile	Test Date	Acad Level	Data Source	Date Loaded
RU_FRENCH	TOTAL	400.00			05/15/2018	Unknown	MAN	06/01/2018

ACCESS FROM TEST RESULTS PAGE

NAVIGATION: RECORDS AND ENROLLMENT > TRANSFER CREDIT EVALUATION > TEST RESULTS

Test Results

Ima Student	123456789					
Tests				Find View All	First 🕢 1 of 1	🕑 Last
*Test ID RU_FRENCH Q RU Frenc	h Placement Test	Checklist Item Upda	te			+ -
Defaults for Components						
Test Date	Data Source	Ŧ	Acad Level		٣]
Test Components		Pe	rsonalize Find View All [쾨	🔣 🛛 First 🕢	1 of 1 🕟 Last	
*Component Score *Test Date	*Data Source	*Acad Level		Date Loaded		
1 OVRLL Q 101.00 10/01/2019	School	 Unknown 		▼ 10/16/2019	H -	
Additional Test Data						
Transfer To Prospect Data	▼ Go					
🔚 Save 🔯 Return to Search 🖹 Notify	€ Refresh					

Created user documentation, including how to "Personalize" the Test Components section to hide unneeded columns.

GETTING READY TO USE TEST RESULTS FOR ENROLMENT



In order to use raw test scores, you must set up some parameters within the Curriculum Management component

DEFINE TEST RESULTS FOR ENROLMENT REQUIREMENT GROUPS (ERGS) NAVIGATION: CURRICULUM MANAGEMENT > ENROLLMENT

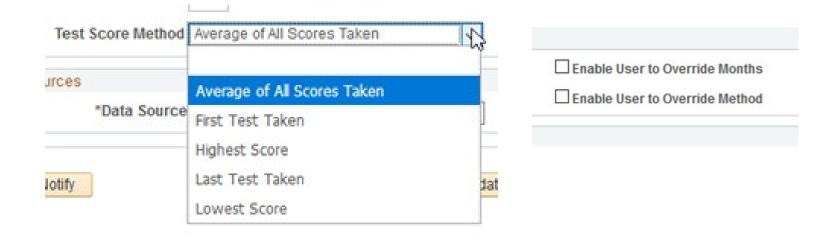
REQUIREMENTS > DEFINE TESTS FOR REQUISITES

Define Tests for Requisites

Find View All	First 🕚 1 of 1 🕑 Las
	+ -
est	
~	
Enable User to Override Mo	nths
Enable User to Override Me	thod
)	+ -
	Enable User to Override Mo

Discuss validity period and method with stakeholders. Data Source is mandatory (even though you can save with it empty).

TEST SCORE METHOD OFFERS SOME FLEXIBILITY, AS DO OVERRIDES



Enabling the overrides means that whoever builds the requisite requirements will be able to select something other than the value set here on individual ERGs

GETTING READY TO USE TEST RESULTS FOR ADVISEMENT



In order to use raw test scores, you must set up some parameters within the Academic Advising component.

For some reason, this is hidden in SACR.

DEFINE TEST RESULTS FOR ACADEMIC ADVISING

NAVIGATION: SET UP SACR> PRODUCT RELATED> ACADEMIC ADVISEMENT> DEFINE TESTS FOR ADVISEMENT

Define Tests for Advisement

		Find View All First	🚯 1 of 1 🕑 Last
Academic Institution RYERU	Ryerson University		+ -
Test ID RU_FRENCH	RU French Placement Te	st	
Requirement Usage ADV	Academic Advisement		
Effective Date 01/01/1901	Status Active	v	
Processing Controls			
Months Valid 48		Enable User to Override Months	
Test Score Method Last Test Taken	¥	Enable User to Override Method	
Valid Data Sources			
*Data Source School	•		+ -

READY TO START MAKING REQUIREMENTS



Once all the pieces are in place, you can incorporate the Test Scores into your Enrollment Requirements and/or your Advising rules.

SAMPLE ENROLMENT REQUIREMENT

NAVIGATION: CURRICULUM MANAGEMENT > ENROLLMENT REQUIREMENTS > ENROLLMENT REQUIREMENT GROUPS

wisite Parameters Regulate Patall Regulate Datail

FRE 201 requires either

• completion of FRE 101

or

Meet the condition
 RU_FRENCH overall test score = 101

Course require		Nequieite Detail	requiring bench rand	The sector	
				Find View All	First 🕢 1 of 1 🛞 Last
R	equirement Group	001414	escription P:FRE201		
	Effective Date		Status Active		
Group Line Type		03/01/2019	status Active	Fin	d View 1 1-2 of 2
	-				+ -
			*Line 0050		
		Course	₹		
	Report Description				
Repor	t Long Description				۲
	Requisite Type	Des Dequicite	T		
				CFRE 101	
		002263 C Introductory	French I	FRE 101	
	Term				
	Associated Class		Incl	ude Equivalent Course	18
	Topic ID	Q			
		Or 🔻	*Line 0060		+ -
	*Group Line Type	Condition	¥		
	Report Description				
Repor	t Long Description				Ś
					,
	cademic institution				//
	Condition Code	,	¥		
		RU French Placement Test	· ·		
	Test Component		•		
· · · · ·	Condition Operator		V		
	Test Score		is Valid		
	Test Score Method	Last Test Taken	V		

ENROLMENT ATTEMPTS

Student has a score of 1.00 in RU_FRENCH.

Attempts to enrol in FRE 201

Description	Message			
FRE 201	Enrollment Requisites are not met. Prerequisite: FRE 101 or Placement test score of 100 is required (www.ryerson.ca/llc); Restriction: Not available to Bachelor of Engineering students	×		

Attempts to enrol in FRE 101, which requires a score of 1.00

Description	Message	Status
FRE 101	OK to Add.	×

IRONING OUT THE KINKS



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PHASE 1: DEALING WITH REAL STUDENT DATA

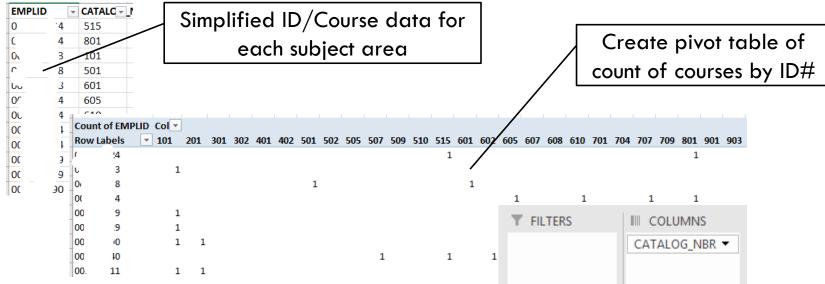
WRINKLE 1: Students with upper level placement and no score will still need manual enrolment. Also wanted to keep native speakers out of certain courses



Existing department records were not useful. Did not have ID numbers.

Analyzed grades via pivot table to identify those who needed 601/999 scores

	A	U	C	U	L		0	
EMPL	D	ACAD_PR	PROG_ST/	STRM	SUBJECT	CATALOG	CRSE_GRA	ENRL_PRO
00′	1	NOCER	AC	1099	CFRE	515	В	NOCER
0	74	NOCER	AC	1101	CFRE	801	B+	NOCER
00	13	NOCER	AC	1085	CFRE	101	C+	NOCER
L	78	MW002	LA	1009	FRE	501	D	JO001
00	08	MW002	LA	1011	FRE	601	C-	JO001
00	34	NOCER	AC	1091	CFRE	605	B+	NOCER
OC	4د	NOCER	AC	1091	CFRE	610	B+	NOCER
00.	4	NOCER	AC	1101	CFRE	707	B+	FPROF
0 C.	,34	NOCER	AC	1101	CFRE	801	В	FPROF
00	10	DOVCU	10	4454	CEDE	101	•	NOCED



Analyzed data using filters to determine students who were accessing:

- Courses available only to native speakers (assign 999 score)
- Courses available only to advanced speakers with no prerequisites on record, or gaps in record (assign 601 score)
- Anomalies sent to department to determine and enter.
- Rest had scores uploaded in batch

	▼ FILTERS	III COLUMNS
1		CATALOG_NBR -
-		
	ROWS	Σ VALUES
	EMPLID 🔻	Count of EMP ▼

NOW WE'RE ROLLING!

Department began entering scores for new test takers as early as November 2018.

Evaluators enter student score, but are still sending each student notification of results manually. (They are not very excited about this.)

Went live during "2019 Course Intentions" period in March.

Generally, seemed successful. No complaints from Operations Support or Enrolment and Student Records teams about difficulties enrolling.

Until

PHASE 1 REVISTED: DEALING WITH <u>REAL</u> <u>STUDENTS</u>

WRINKLE 2: Pre-enrolment numbers for introductory courses are WAY down. Panic ensues.

We did not account for the 'Lazy Factor'. Students had to have a score of 1.00 to enrol in FRE 101 or SPN 101.

Lesson learned: Students are not good at delayed gratification.



Department Chair asked us to remove the test score requirement from FRE 101 and SPN 101.

Enrolment numbers improved, but

PHASE 1 RE-REVISTED: DEALING WITH <u>REAL</u> <u>ADMINISTRATORS</u>

WRINKLE 3: SURPRISE (not really), advanced students were enrolling in 101-level courses

Removing the requisite on the introductory courses = everyone can enrol

Yes, EVERYONE, even those with an advanced score



Tried out an enrolment rule of Test Score <101

PHASE 1 RE-RE-REVISTED: LOGIC'S GONNA GET YOU EVERY TIME

WRINKLE 4: Score < 101 does NOT allow brand new students with no score at all to enrol, which was mostly the point of removing the requisite.

Lesson learned: No test at all and a zero test score are not the same thing.



Create empty test score records (i.e.: RU_FRENCH score = zero/blank) for every student by recurring batch job. That's creating a lot of records for a lot of students who will never even attempt to enrol.



Create a user programmable condition to recognize no score at all as if it were a zero score. This touches COBOL so not happening

PHASE 1 RE-RE-RE-REVISTED: FAILURE IS NOT AN OPTION



Create a student group to assign to a student whenever a language test score is posted. Incorporate this in the requisite so if you have a test score, it must be 1. If you haven't done the test, you can still enrol.



Rethink: Need separate group for each language, as student may be proficient in French, but have no test/skill in Spanish. So created TFRE, TSPN, TARB, TCHN and set up batch job to run nightly.



Add the student groups to the Requisite structure

(Define Requisite Student Groups)

	Find View All 🛛 First 🕚 1 of 1 🕑 Last
Academic Institution RYERU Effective Date 03/01/2019	Ryerson University
	Find 🛛 First 🕚 1-11 of 11 🕭 Last
*Student Group BND1 Q	Scheduling Band 1
*Student Group BND2	Scheduling Band 2
*Student Group BND3 Q	Scheduling Band 3
*Student Group BND4 Q	Scheduling Band 4
*Student Group BND5 Q	Scheduling Band 5
*Student Group DENT Q	Direct Entry
*Student Group SWAS Q	Social Work-Advanced Standing
*Student Group TARB	Arabic Placement Test Scored
*Student Group TCHN Q	Chinese Placement Test Scored
*Student Group TFRE	French Placement Test Scored
*Student Group TSPN Q	Spanish Placement Test Scored

Define Requisite Student Group

Requisite:



First attempt: Stdt Groups <> TSPN OR (Stdt Group = TSPN AND RU_SPANISH=1)

Simplified: Stdt Groups <>TSPN OR RU_SPANISH=1

Course Requisite	Requisite Param	eters Requis	site Detail	Requisite D	etail <u>P</u> arameters			
					F	ind View All	First 🕚	1 of 2 🕑 Las
Re	equirement Group	005319	D	escription P:	ERE101			
ric.	Effective Date		D	Status A				
Group Line Type		03/01/2019		Status A	JUVC	F	ind View 1	1-2 of 2
								+ -
		-		*Line	0010			
	*Group Line Type	Condition			·			
R	eport Description							
Report	Long Description	Students who ha	ave not yet c	ompleted the F	French placemen	it test may enrol	in this course	e. 😻
								2
Aca	ademic Institution	Ryerson Univer	sity					
	Condition Code	-	-		,			
C	ondition Operator	Not Equal						
	Condition Data	TFRE	Q Frei	nch Placement	Test Scored			
								+ -
		Or	•	*Line	0020			
	*Group Line Type	Condition			7			
R	eport Description							
Report	Long Description	Students with a 1.00.	RU_FRENC	H test score m	ay enrol in this c	ourse only if the	eir test score i	s 🗳
Aca	ademic Institution	Rverson Univer	sity					
	Condition Code	-	Sity		,			
		RU French Plac	ement Test		,			
	Test Component		smont root					
0	ondition Operator				·			
0	Test Score		Month	is Valid				
т	est Score Method				7			
	cor ocore method	Lust rest raken						

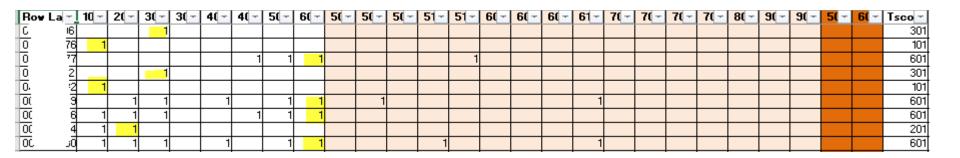
PHASE 1 RE-RE-RE-RE-REVISTED: THE FUN NEVER STOPS

If requisites will be used to keep students with test scores >1 out of intro courses, all existing students need a score/group.



Back to Excel/pivot tables to analyze all graded enrolments in language courses to assign scores.

Batch job assigns Student Group.



ANYBODY STILL UNHAPPY?



Teaching department must deal with anomalies:

- •Some students who do not take the test will be overqualified for 101-level courses
- Some beginners will never bother to take the test
- •Some students will enrol in 101 course first, test later, should weed themselves out (but may not).

PHASE 2: AUTOMATIC EMAILS. THE DREAM MEETS REALITY

WRINKLE 5: Populating an email with student scores pulled from the Test Results page would require a customization. <sad trombone sound>



Solution: Scale back the dream, and plan for a 'generic email' notifying students that their score has been input, go look at it in SAS

WRINKLE 6: There is no student view of Test Score Summary <sad trombone sound>



Solution: Make one! (Admissions OK with this too.) CCS set up so DEIN and MATR can view only if "RU_XXXXX" scores exist (took about a week to sort out)

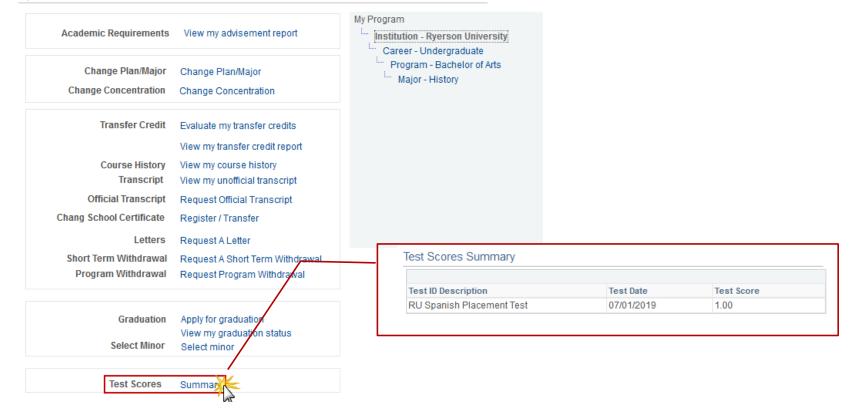
VIEW OF TEST SCORE SUMMARY FROM STUDENT CENTRE (FLUID)

1 My Program			2 rows
	Test ID Description \diamondsuit	Test Date 🗇	Test Score 🗘
View My Advisement Report	RU Arabic Placement Test	10/20/2019	1.00
🕞 Grades/Standing	RU French Placement Test	06/01/2019	101.00
View My Unofficial Transcript			
Request Official Transcript			
Request A Letter			
Chang Certficate Reg/Trnsfr			
Change Plan/Major			
Change Concentration			
Request A ShortTerm Withdrawal			
View My Course History			
Test Scores Summary Test Scores Summary			

VIEW OF TEST SCORE SUMMARY FROM STUDENT CENTRE (CLASSIC)

Search Shopping Cart Enroll/Drop/Swap My Academics

My Academics



TRIGGER DEFINITIONS — SETUP 3CS EVENT ID

Peoplecode needed to be written to place the appropriate Trigger3CEngine function (not a delivered trigger)

Update 3Cs Trigger Prompts to allow TEST_ID as a field condition in your trigger definition

Check duplicates if Comm Status = Not Completed. Emails will be sent daily. If the is already an email 'in the queue', do not assign new one.

*Trigger Lev *Functio	on GEN Q General Override Parameters	Trigger Action N	lew Status Active		<u>-</u>			
Record (Table) Nam "Trigger Lew "Function Trigger Assignment	e STDNT_TEST_COMP el Field m GEN Q General Override Parameters				<u>_</u>			
*Trigger Lew *Functio Trigger Assignment	e STDNT_TEST_COMP el Field m GEN Q General Override Parameters			3	~			
*Function	on GEN Q General Override Parameters	~ *	Status Active		~			
Trigger Assignment	Override Parameters							
							_	
System							2	
O Batch Process	Override Override Ev	vent ID						
Duplicate Communication Check								
Check Duplicate Communication	Explain							
Additional Conditions to Prevent								
Variable D								
Communication Sta		~	Explain					
Communication sta	tus Not Completed	~	Explain					
Duplicate Checklist Check								
Record Level								
Event ID								
field Level			Fir	nd View All	First 🛞	1 of 1	E Last	
Field Combination	1 *Event ID B20	RU Tests					+ -	
Field Conditions								
Field Name	*Operator	Field Value				+ -		
TEST_ID Q	IN Q	RU_ARABIC	Q		+ -			
		RU_CHINESE	Q		+ -			
		RU_FRENCH	Q		+ -			
		RU_SPANISH	Q		+ -			

SAMPLE COMMUNICATION

Dear sample de savuel data: ID# sample data

November 5, 2019

Thank you for taking our online guage placement test. Your test has now been scored.

- 1. View your score by going to the Monoral of the page of your RAMSS Student Centre, and select the Test Scores Summary link at the bottom of that page
- 2. Once you know your score, visit the <u>Placemed Techore Guide</u> to determine which courses your score qualifies you to take. You may also wish to visit the <u>athway</u> for suggestions about appropriate sequencing of your language courses.
- 3. If you have a valid enrolment appointment or it is currently the combrolment period, you may use RAMSS to enrol in the courses listed as appropriate for your test score.

If you need assistance to enrol in the course, please see the <u>Contacts List on contact</u> find appropriate contact person. Undergraduate students should contact the Program Administration of the contact should contact the appropriate Continuing Education Coordinator. When you reach out, pleas to include your name, your student ID number, as well as the course code, term and time of the course you 7 trying enrol in (e.g.: CFRE 301, W2020, Tuesdays at 6 pm)

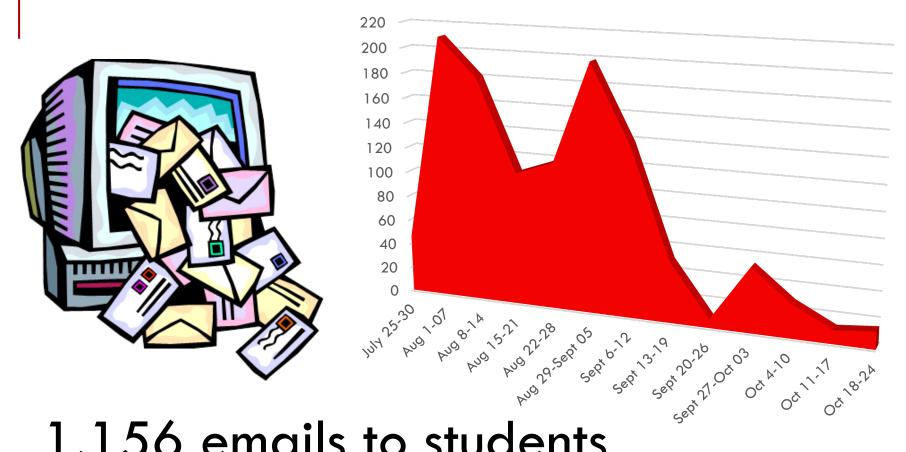
Note: Instructors may verify that you have been placed at the appropriate level and adjust your score and enrolment accordingly.



like to discuss this progress report with you."

THE UPSHOT

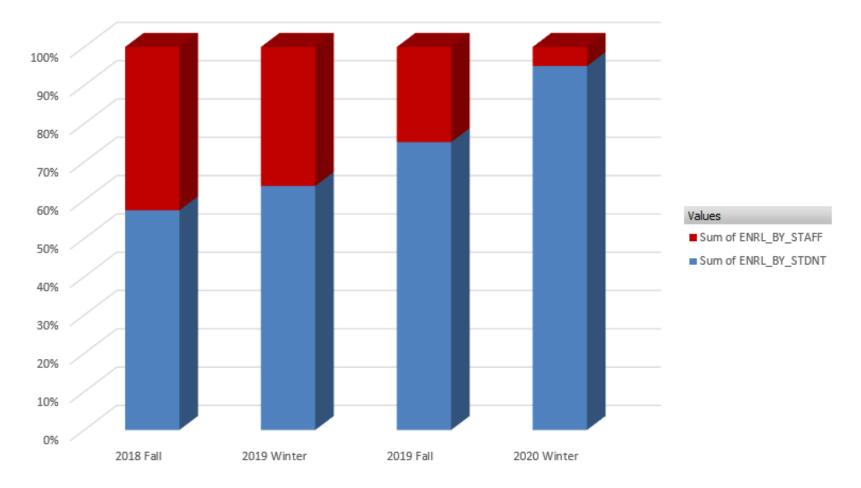
THE NUMBERS — COMMUNICATION



1,156 emails to students July 25 – October 25, 2019

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THE NUMBERS — SUCCESSFUL ENROLMENTS BY STAFF VS STUDENTS



USER COMMENTS

Using the test scores reduced my enrolment workload by almost 85%. No more reviewing each student's academic history or searching spreadsheets for scores, and students can enroll themselves. (MM, Program Assistant)

I know things are better because the line up outside my office is only 6 people now.

Instructors in 201+ levels can now start teaching immediately without wasting precious class to verify student levels (KZ, Department Chair)



CONCLUDING THOUGHTS ANY QUESTIONS?

PRESENTERS

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ALL ALLIANCE PRESENTATIONS WILL BE AVAILABLE FOR DOWNLOAD FROM THE CONFERENCE SITE





THANK YOU *(GO MARAUDERS!!)*



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