

### **Graduate Student Tracking**

### Council of Graduate Schools December 2011

Nancy Marcus Dean, The Graduate School Florida State University



# Acknowledgements

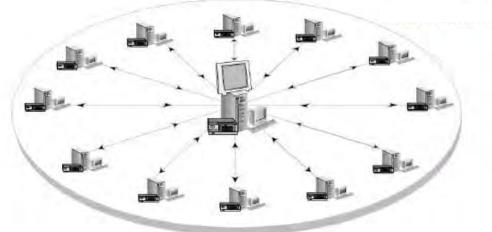
- David Yancey (<u>dyancey@admin.fsu.edu</u>)
- Chris Simonavice



# Why?







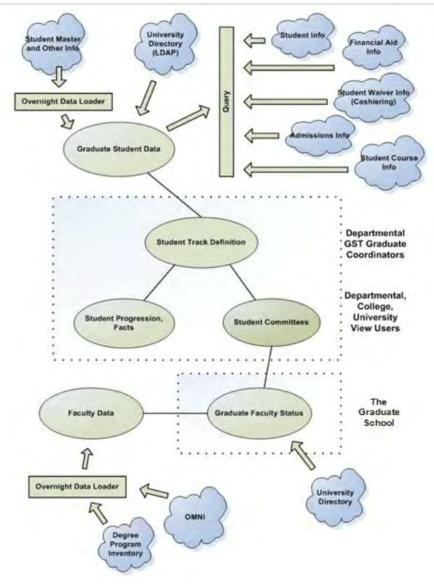


# Graduate Student Tracking

- Web-based system w/secure access
- Integrates information from several student databases
  - Financial aid, waiver appointments, directory, student data records
- Allows for other information to be entered
  - Progress towards degree, committee composition
  - Customize tracks for particular degree, majors etc.
- Multiple user roles: add data and view only



### **Graduate Student Tracking**





# Development & Implementation

- Top priority
  - Ph.D. Completion Project
  - 8 target Ph.D. programs in Arts & Sciences
- Secondary priority
  - All other graduate programs
    - 15 colleges
    - Master's, specialist & doctoral



# **Defining System Needs**

- Advisory committee Gather information pertinent to policies and procedures, benchmarks, etc.
  - University (required/default)
  - College
  - Department
  - Program
- Security and access
  - Accessible electronically from anywhere
  - Authorized access
  - Password protected



# University

- Program of study
- Annual review
- Committee composition
- Prelims and admission to candidacy
- 24 dissertation hours
- Defense



# **Queries and Reports**

- Custom report examples
  - Student graduation counts by major, degree, year
  - Student committee counts for faculty by degree level, by role
  - Enrollment analyses (5 year rule, 7 year rule, time to degree)
  - Test score summaries
  - Student counts by term
  - Student directory information



#### Graduate Student Tracking - Graduate Coordinator

Welcome, Mr Christian & Simultane

[GO]

#### **Student Tracking and Information**

- Jump Directly to a Student:
   FSUSN 
   [G0]
- Jump to a Student by Name (last name, first):
- Student List / Selection
- Student Selection View Only Menu
- Bulk Editing

#### Reports

- Report Generator
- Custom Department Reports
- Custom College Reports
- Student Messaging

#### Management

- Manage Departmental Progression Items, Facts, and Tracks
- Departmental Object and Track Definition Advisor

#### Reference

Manuals, How-To Documentation, and Recent Changes/Updates



# Selecting a Student(s)

#### **Student Tracking and Information**

- Jump Directly to a Student:
- Jump to a Student by Name (last name, first): t
- Student List / Selection
- Student Selection View Only Menu

iten Tenbroek, Barbara L Tenbus, Eric G Tenirman, Caniel W Tenneti, Sharathi V.B.v

FSUSN

**-** [GO]

[GO]

Department: Art		<b>-</b>	Candidates On	ly 🗆 In	clude Ir	nactive [De	ownload] [Cu
Select Name	Major	Level	Candidate	Gender	Race	Last Enr	Residency
Select	Studio Art	М		F	3	1 / 2009	F
Select	Studio Art	м		F	1	1 / 2009	F



### Student Track Tab

	Major: Track: Active: Yes				. <u>, 1</u>	Student Track Summary Report				
udent Track	Last Term: 9 / Email: Student Progression	2009 Student Facts	Student Committee	Student Data	Test Scores	Student Transcript	Financial Aid	Waiver Appointmer		
tudent Tr	ack Summary		(Student's Track	(ID: 9583)						
Active: Ye	s 💌 Thesis Tracl	k: No	(							
Comments	5	10 (B)								
Comment	5			_		<u> </u>				
Comment	5					*				
Comments	5					*				
						×				
	Attachment		E	Browse		X				
Document	<b>Attachment</b>		E (optional			X				



	Adventi, Maria Saran
Major	Biological Science (D)
Track	Biological Distance Codault Track (CE
Active	1786
Thesis Track:	W
Last Term:	\$1200e
Email:	mathematic fermal some
As Of:	10/22/2008 1:43 PM

#### Student Progression Summary

- (1) Program of Study Status: Approved
- (2) Doctoral Teaching Requirement Status: Successfully Completed \*
- (3) Doctoral Seminar Requirement Status: Unspecified
- (4) Doctoral Proposal Status: Approved
- (5) Doctoral Preliminary Examination Status: Unspecified
- (6) Doctoral Admission to Candidacy Status: Unspecified
- (7) Doctoral Residence 24 Semester Hrs in 12 Consecutive Months Status: Yes '
- (8) Doctoral Dissertation Credit 24 Hours Status: Unspecified
- (9) Doctoral Dissertation Defense Status: Unspecified

#### Student Facts Summary

- (1) Courses Taught Comments: BSC 3402L, BSC 2010L, BSC 2011L, BSC 4933 Fishes
- (2) Annual Review Status: Satisfactory \* Date: 02/01/2008

#### Student Committee

Co-Chair	M	-	п.	Cree	1.70		
Co-Chair		(part)			en. 1	ι.	
Member		-	. 0	-	6 C		
Member		÷	4	(Der	in a	(iles	10



# **Student Progression Tab**

	Major:		te statute (K)		Dis	play Options:		si in the
Track: Active: Yes Last Term: 9 / 2009 Email:				<ul> <li>Only show the preferred display field</li> <li>C Show all object information</li> </ul>				
udent Track		Student Facts	Student Committee	Student Data	Test Scores	Student Transcript	Financial Aid	Waiver Appointments
1.00 7.000	of Study 🖗					[Edit] [Delete]		
Status: N	Not Applicable				Rev	: 03/11/2009 MCLAYP	00L	
Graduate	e Program Prerequ	uisites to Cor	nplete 🖗			[Edit] [Delete]		
Commen	nts: None				Rev	: 09/17/2009 MCLAVP	OOL	
	n of Study 🖗		) [Delete]					
program o professor must be a	s possible, students of courses with the h or supervisory com pproved by the maj or department.	help of their m mittee. This pr	ajor 10 rogram					
Status:	Unspecified	Rev: 03	/14/2008 LOAD					



### Student Facts Tab

	> Graduate Student Tracking > Student Select > Student	
	utrition & Food Science (D)	Display Options:
Active: Yes Last Term: 9 / 2011 Email:	Food Science Default Track [D]	<ul> <li>Only show the preferred display field</li> <li>Show all object information</li> </ul>
tudent Track Student Progression Student Facts	Student Committee Student Data Test Sco	ores Student Transcript Financial Aid Waiver Appointments
Status: Spring 2012 Annual Review ® Date: 08/20/2008	Rev: 09/15/2008 THARTMAN	
Annual Review 2008-2009 <sup>(2)</sup> Status: Satisfactory *	Rev: 05/06/2009 THARTMAN	
Annual Review 2009-2010 <sup>(</sup> つうしょう) Date: 08/19/2010	Rev: 08/20/2010 THARTMAN	
Graduate School Workshops Attended	P	

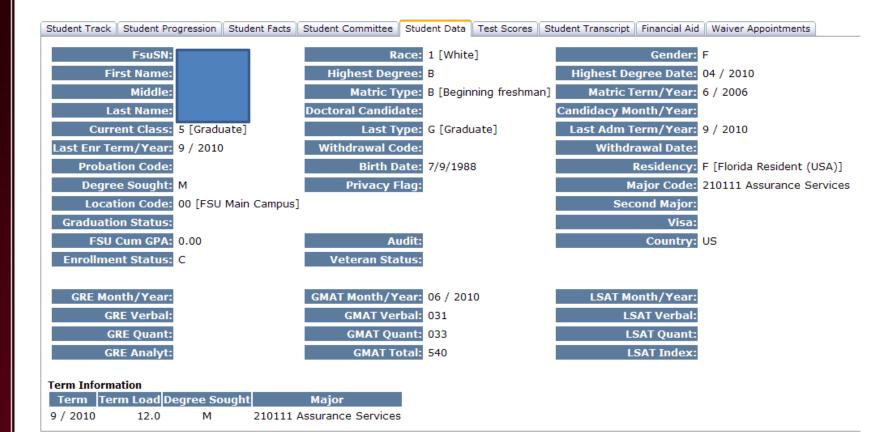


### Student Committee Tab

Student Track	Student Progression	Student Facts	Student Co	ommittee		Student Data	Student Data Test Scores	Student Data Test Scores Student Transcript	Student Data   Test Scores   Student Transcript   Financial Aid	Student Data   Test Scores   Student Transcript   Financial Aid   Waiver
Manage Fa	Manage Faculty Auto-Complete List (Show Details)									
Save All	Check Committee	Thesis Tr	radu No							
	t Message from the	_								
	aculty Member	Role		Notes						
		Select a role	🔄 Save							
	I	Select a role	🗾 Save							
		Select a role	Save							
		Select a role	🔄 Save							
		Select a role	Save							
Committee N	otations:									



### Student Data Tab





### Test Scores Tab

Student Track Student Progression Student Facts Student Committee Student Data Test Scores Student Transcript Financial Aid Waiver Appointments

Test Scores							
Test Type	Subject	Test Date	Test Score				
GRE	Quantitative	10/2005	750				
GRE	Verbal	10/2005	590				
GRE	Writing	10/2005	4				
IBTOEFL	List Comp	6/2007	28				
IBTOEFL	Reading	6/2007	29				
IBTOEFL	Speaking	6/2007	26				
IBTOEFL	Total	6/2007	107				
IBTOEFL	Writing	6/2007	24				



### Student Transcript Tab

Graduate Coursework							
Term	Course	Hours	Grade	Course Title			
Spring 2008	CEN5515	3.00	B+	DATA/COMPUTER COMMUN			
	CIS5370	3.00	A-	COMPUTER SECURITY			
	COP5818	3.00	А	DISTR APPS DEVELPMNT			
Summer 2008	COT5540	3.00	A-	LOGIC FOR COMP SCI			
Fall 2008	CAP5605	3.00	B-	ARTIFICIAL INTELLI			
	CIS5915	1.00	S	GRAD SOFTWARE PROJCT			
	CIS5935	2.00	S	INTRO SEMINAR/RESRCH			
	CNT5412	3.00	B+	NETWRK SEC/ACTV&PASS			
Spring 2009	CIS5371	3.00	В	CRYPTOGRAPHY			
	COP5725	3.00	B-	DATABASE SYSTEMS			
	COT5310	3.00	В	THRY AUTMTA;FORM LG			
Summer 2009	CIS5915	5.00	S	GRAD SOFTWARE PROJCT			

#### Current Class Schedule

Course	Hours	Course Title
CIS5915	9	GRAD SOFTWARE PROJCT
CIS8974	0	MS PROJECTS DEFENSE



# Financial Aid Tab

Student Track	Student Progression	Student Facts	Student Committee	Student Data	Test Scores	Student Transcript	Financial Aid	Waiver Appointments	
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#### **Tuition Waivers and Scholarships from Financial Aid**

Term	Fund Name	Fund Type	Offer Amount
Summer 2009	MATRICULATION WAIVER	WAIVER	\$1,153.65
	OUT-OF-STATE GRAD WAIVER	WAIVER	\$3,006.70
Fall 2009	MATRICULATION WAIVER	WAIVER	\$2,387.97
	OUT-OF-STATE GRAD WAIVER	WAIVER	\$5,412.06
Spring 2010	MATRICULATION WAIVER	WAIVER	\$2,387.96
	OUT-OF-STATE GRAD WAIVER	WAIVER	\$5,412.06



# Waiver Appointments Tab

Student Track	Student Progression	Student Facts	Student Committee	Student Data	Test Scores	Student Transcript	Financial Aid	Waiver Appointments	
Waiver Appoi	intments for Fall	▼ 2009 ▼	GO						

#### **Tuition Waiver Appointments**

Term	Appointment W	/aiver Nbr	Waiver Category	Major Dep	t Dept ID	Low Hrs	Upr Hrs	Grad Hrs	Waiver Amt
Fall 2009	(F) Fellowship	5555	Out of State Grad Waiver	GSO	113000	0	0	9	\$5,412.06
	(F) Fellowship	5555	Matriculation Waiver	GSO	113000	0	0	9	\$2,387.97



### **Report Generator**

Student Selection:	
Academic Department: Accounting	
Major: Any of my Majors	Degree Level: Any Level 💌
Student Track: Any of my Tracks 💌	Include Inactive Tracks
Record Limit: No Record Limit	
Add a Column to the Rep	ort:
Category: Item:	Field:
General Student Data 💌 Class Code 💌	Data Field  [Add Column]
Add a Row Filter to the Re	-
Category:  General Student Data 💌 Item:  Cl	lass Code 📃 💌
Field: Data Field 💌 Condition: Equals 💽 Value	: [Add Filter]

#### About this...

Use this function to generate reports of selected graduate students. Begin by limiting the list of students by selecting a department, major, or track. By default, the report will only include active students, but inactive students may be included by clicking the checkbox. By default, the report will include student name, major, and degree level. Use the [Add Column] function to select additional information for the report. Use the [Add Filter] function to add additional conditions to the row selection. If multiple filters are selected, all must be true for a student row to be included in the report.





### Sample Report

Category	Item	Field	
Committee Data	Chair	Data Field	[Remove]
General Student Data	Doc Candidacy Date	Data Field	[Remove] [Move Up]
Run Report Clear Dis	play Download to :	Spreadsheet	Manage Templates

Selected students from department [HE] Nutrition, Food, and Exercise Sciences with degree level [D] Doctorate, currently active.

	FsuSN	Student Name	Chair	Doc Candidacy Dat
[Select]			e Spicer, Maria T	
[Select]				
[Select]			Rankins, Jenice	2007/09
[Select]			Hsieh, Yun-Hwa P	2010/01
Select]				
Select]			Arjmandi, Bahram H	
Select]				
Select]			Hsieh, Yun-Hwa P	
Select]			Kim, Jeong-Su	
Select]			Kim, Jeong-Su	
Select]			Ilich-Ernst, Jasminka Z	2009/06
Select]				
Select]			Kim, Jeong-Su	2009/09
Select]			Ilich-Ernst, Jasminka Z	2011/01
Select]				
Select]				
Select]			Spicer, Maria T	2011/01
Select]			Panton, Lynn B	the state of the state
Select]			Hsieh, Yun-Hwa P	2010/01
Select]			Figueroa-Galvez, Arturo	
Select]			Figueroa-Galvez, Arturo	
Select]			Panton, Lynn B	2010/01
Select]			Sathe, Shridhar K	2009/09
Select]			Figueroa-Galvez, Arturo	State State State State State
Select]			Figueroa-Galvez, Arturo	
[Select]			Kim, Jeong-Su	2011/01

26 student records selected.



### **Custom Reports**



FSU Web Sites

Search

D

Home > The Graduate School > Graduate Student Tracking > Custom Department Reports Menu

#### **Custom Graduation Reports**

Grad Counts by Major/Degree	A crosstab report of graduation counts by major and degree. The report is for a selected term and department, including both active and inactive students. You may click on a count to see the graduating students in the selected category. You may further drill down to student details by selecting a student. An option is available to download the counts into a spreadsheet.
Grad Counts by Major/Year	A crosstab report of graduation counts by major and academic year. The report is for a selected degree and department, including both active and inactive students. You may click on a count to see the graduating students in the selected category. You may further drill down to student details by selecting a student. An option is available to download the counts into a spreadsheet.
Grad Counts by Degree/Year	A crosstab report of graduation counts by degree and academic year. The report is for a selected department, including both active and inactive students. You may click on a count to see the graduating students in the selected category. You may further drill down to student details by selecting a student. An option is available to download the counts into a spreadsheet.
Select Graduation Status	A list of students with a selected graduation status is displayed. Student selections may be made by selecting a department, major, degree, and/or term. All selections include both active and inactive students. You may further drill down to student details by selecting a student. An option is available to download the selected student list into a spreadsheet.

#### **Custom Committee Reports**

Committee Counts for Departmental Students	A crosstab report with a count of committee roles played by faculty. The counts are for graduate students with an active track in the selected department. Faculty are not limited to the selected department.
Committee Counts for Departmental Faculty	A crosstab report with a count of committee roles played by faculty. The counts are for all graduate students with an active track regardless of department. Faculty are limited to the selected department.
Graduate Faculty Status	Display the graduate faculty status for a selected faculty member. Multiple status records may be displayed. Display students for which the faculty member is serving as a committee member.
Graduate Faculty Status for Department	Display graduate status for faculty. Select whether to display faculty with status in a degree program that is associated with a selected department, or display faculty that are associated with a department. Drill down to show students associated with the faculty member or drill down to show graduate status details.
Committee Composition Analysis	A report of graduate committee composition for currently active students in the department. This analysis evaluates committees as provided in the "Student Committee" tab with respect to university requirements.
Committee Summary Report	A report of graduate committees for students selected based on department, major, track, degree level, or enrollment status. An option is available to download the counts into a spreadsheet.
Committee Membership by Year	A report of committee membership by year for a selected committee role. This analysis evaluates all faculty associated with a selected department. Detailed and summary counts are available based on the final committee composition or based on a history of committee chapters.



# Custom Reports (cont.)

#### **Other Reports**

Assorted Enrollment Analyses	Various enrollment report options including time to graduation, time since last admit, 5 year rule, 7 year rule, time since doctoral candidacy, etc.
Time Enrolled	A report of the time that a student was (or has been) enrolled in a given major and degree level. Information includes the student's name, major, degree level, years enrolled, last admit date, and graduate matriculation.
Student Counts by Term	A crosstab report with student counts by term and degree level for a selected department or major. You may click on a count to see the students composing the selected category. You may further drill down to student details by selecting a student. An option is available to download the counts into a spreadsheet.
Student Demographic Info	A report of student demographic information including FSUSN, name, gender, race, residency, and visa. Student selections may be made based on department, major, track, degree level, and enrollment status.
Student Directory Info	A report of student information taken from the university directory. Information includes the student's email address, display name, OMNI ID, and status. An option is available to download the information into a spreadsheet.
Student Course Schedule	A report of student course information for the current term. Information includes the student's name, course number, course hours, and course title. Student selections may be made based on department, major, track, or degree level.
Incomplete Grade Summary	A report of incomplete grades that have been given to currently active students in the department. Incomplete grades are normally resolved in a subsequent term. The resolution of these incompletes is not indicated in this report.
Detailed Test Scores	A report of academic test scores for graduate students, which include GRE, GMAT, IBTOEFL, LSAT, CIES SPEAK, TOEFL, etc. Student selections may be made based on department, major, track, degree level, or enrollment status.
Test Score Summary	A crosstab report of average scores for GRE, GMAT, LSAT summarized by major. The scores are for graduate students with an active track in a selected department, major, or track.
Waiver Appointments Summary	A report of waivers that have been awarded to currently active students in the department, regardless of source. The information presented here is correspondent to that presented in the "Waiver Appointments" tab.
Financial Aid Summary	A report of waivers and scholarships that have been awarded to currently active students in the department from Financial Aid. The information presented here is correspondent to that presented in the "Financial Aid" tab.
Admissions Summary by Term	A crosstab report of admissions status counts by term. For counts of students with Enrolled status, a drill down function is provided to access other GST student information.
Students Taking a Course	This function is designed to report students enrolled in a course with a selected course number in the current term. Courses at the 5000- level or higher are listed that are associated with the selected department. Student major and level are pulled from the "Student Master".
Graduate Teaching Status Course Review	This report compares current faculty graduate status with course section information in the selected term. It will report course sections in which the instructor does not possess appropriate graduate status to teach the course.



# Grad Counts by Major/Year

Degree: MACC	Run Report
Department: Accounting	[Download Counts and Details to Spreadsheet]

Major Code	Major Name	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07
210112	Accounting Information Systems	4	5	11	4	4	4	1
210111	Assurance Services	2	6	11	10	13	19	17
210114	Corporate Accounting		4	3	4	6	8	9
210113	Taxation	6	9	12	23	31	11	22

Click on a number to drill down to a list of students.



# Committee Counts for Departmental Faculty

#### **Committee Counts for Departmental Faculty**

A crosstab report with a count of committee roles played by faculty. The counts are for all active graduate students regardless of their department. Faculty are limited to the selected department that possess some graduate status.

Academic Department: Oceanography

Run Report

Only count doctoral candidates

[Download to Spreadsheet]

Selected faculty for Oceanography. Click on the counts to drill down to student details.

OMNI ID Faculty Name	email 1	neochair i	Member M Outside	ingenan PhD	cochair PhD	Member Phu	outside Pill	
000080306 Baco-Taylor, Amy R.								[Select]
000001103 Burnett, William C			3	4		5	1	[Select]
000007631 Chanton, Jeffrey P		1	3	3		7	8	[Select]
000066944 Chassignet, Eric P	2	1	1	2	2		4	[Select]
000078992 Chin, Kuk Jeong								[Select]
000008485 Clarke, Allan J				1		1	1	[Select]
000006133 Dewar, William K	1		1	1		1	6	[Select]
000078184 DiChristina, Thomas J								[Select]
000052123 Dittmar, Thorsten	2		5			2	1	[Select]
000072618 Fish, Frank						1		[Select]
000034532 Froelich JR, Philip N	2			1		4	6	[Select]
000077355 Green, Stefan J								[Select]
000071194 Hodell, David A						1		[Select]
000061398 Hofmann, Eileen E								[Select]
000049134 Huettel, Markus H	2		3			6		[Select]
000008122 Iverson, Richard L			2			3	1	[Select]
000069936 Kerkhof, Lee J								[Select]
000027830 Kostka, Joel E	1			3		3	2	[Select]
000006479 Krishnamurti, Ruby E							3	[Select]
000078539 Kusel, Kirsten								[Select]
000008616 Landing, William M	1		2			2	9	[Select]
000057395 Lapointe, Brian E								[Select]
000071459 Mann, David A								[Select]
000000888 Marcus, Nancy H				2				[Select]
000063063 McWilliams, James C								[Select]
000054657 Mills, Heath J								[Select]
000047573 Moore, Willard S								[Select]
000010397 Mortazavi, Behzad								[Select]



τ

# Faculty Info



#### Graduate Status Database Information:

Name:	-	Department:	[084000] Physics
Tenure Status: T	enured	OMNI ID:	

#### Graduate Status for Committees Formed Prior to Fall 2009

<b>Degree Category</b>	<b>Degree Title</b>	Graduate Status	Start Date	Temporary Status	End Date
400801	Physics	DDS	11/11/2003	No	

#### Graduate Status for Committees Formed on or after Fall 2009

Degree Category	Degree Title	<b>Graduate Status</b>	Start Date	Temporary Status End Dat	te
400801	Physics	GFS	01/01/2009	No	

#### **Participation on Student Graduate Committees**

FsuSN	Name	Major Code	Major I	Degree Level	Role	Candidat	e Active Gra	ad Status Grad Degree	
		118110	Physics	D	Chair		Y		[Select]
		118110	Physics	D	Member	γ	γ		[Select]

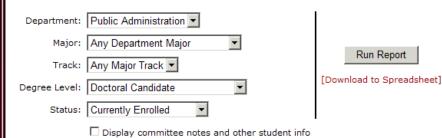


# Drill Down to Student

Major: 116111 - Biological Oceanography (D) Track: Biological Oceanography Default Track [D] Active: Yes Last Term: 9 / 2008 Email:	Student Track Summary Report
Ident Track       Student Progression       Student Facts       Student Committee       Student Data         Student Track       Summary         Biological Oceanography Default Track [D]       (Student's Track ID: 3802)         Active:       Yes       Dissertation/Treatise Track: Yes         Comments       Comments	Student Transcript Financial Aid Waiver Appointments
Document Attachment File Browse	
Save This Track Info Add a New Student Track Change This Student Track	



# **Committee Summary Report**



Currently Enrolled students in Department: Public Administration, Degree : 'Doctoral Candidate'

Student Name	FsuSN	Chair	Co-Chair	Member	Member	Member	Outside Member
MARKAD, THERE	HERITERS .	Brower, Ralph S		Dehaven-Smith, Lance M	Feiock, Richard C		Schwartz, Robert A
Suppose and the figure	1010010130	Dehaven-Smith, Lance M		Klay, William E	Yang, Kaifeng		Greek, Cecil E
(Find), (Finder (Burd))	101001001	Berry, Frances S		Eger, Robert J	Yang, Kaifeng		Barrilleaux, Charles J
Hambert, Lans -	11000	Berry, Frances S		Lee, Keon-Hyung	Dehaven-Smith, Lance M		Weissert, Carol S



### **Other Reports**

#### **Assorted Enrollment Analyses**

Report Typ	e: 5 Year Rule 🗸 🗸		Run Report
Department:	English	*	[Download to Spreadsheet]

#### Five Year Report for English

FsuSN	Student Name	Major Code	Major	Degree Level	Years	Candidacy	
		114212	Literature	D	12.67	Spring 1996	[Select]
		114212	Literature	D	7.67	Spring 2001	[Select]
		114212	Literature	D	5.67	Spring 2003	[Select]
		114212	Literature	D	5.33	Summer 2003	[Select]
		114212	Literature	D	5	Fall 2003	[Select]
		114210	English	D	5	Fall 2003	[Select]
		114212	Literature	D	4.67	Spring 2004	[Select]
		114212	Literature	D	4	Fall 2004	[Select]

#### About the selected report:

Report the elapsed time since reaching candidate status, for students with an active student track in a major associated with a given department. Treat each elapsed semester as 1/3 year and exclude the current term. Limit the student list to only include the D degree level, and elapsed years greater than or equal to 4 years. (This will give an indication of those that are about to run into the 5 year rule).



# **Student Messaging**

Message Subject:	
Message Body:	Show GST Tags
	<u> </u>
	V
Message Format: <ul> <li>Plain Text</li> <li>O HTML Text</li> </ul>	
CC for all messages involving this template:	
	P
	P
Template Name:	V*
Save Template Close Without Saving Delete Template	Prepare Messages



# Department & College

- Enter progress information
  - University requirements
    - Annual reviews
    - Committee information
    - Prelims
  - Department requirements
    - Program of study
    - Presentations & publications
    - Teaching



# **Graduate School**

- Reports as described
- Validate student committees for thesis, treatise, and dissertations
- Graduate School enters information:
  - Fellowships
  - Workshops attended
  - Scores on SPEAK test
- Check student record when requests are made for extensions
   and exceptions
- Evaluate retention and completion as they relate to fellowship support, professional development workshops attended
- Departments and Colleges can check student committee service of faculty



# Status and the Future

- Staffing
  - 1 person on borrowed time is the brains
    - 1 person assists technically and trains the community; staff turnover
    - 1 graduate assistant helped with technical aspects in early development
- Widespread implementation
- Continue to improve and enhance