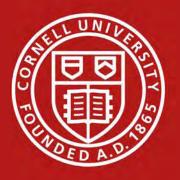
Council of Graduate Schools

Assessment and Review of Graduate Programs – Doctoral

Nancy Busch, Barbara Knuth, Henning Schroeder

Assessment and Review of Doctoral Programs

- 9:00 Welcome and introductions
- 9:10 Purpose of session, agenda overview
- 9:15 Henning Schroeder, U. MN & CGS: Quality metrics assessment and allocation plan
- 9:45 Nancy Busch, Fordham U.: Assessment focusing on humanities
- 10:15 Barbara Knuth, Cornell U.: Ongoing program assessment & metrics
- 10:45 Small group discussions
- 11:10 Report out
- 11:25 Concluding thoughts



Cornell University

Assessment & Review of Doctoral Programs

Ongoing Program Assessment & Field Metrics

IE BIG RED BARN

Barbara Knuth Vice Provost & Dean Cornell University

December, 2013

Graduate Program Assessment at Cornell

- ~ 100 graduate fields (Graduate School includes PhD, research masters, professional masters – e.g., M.Eng., M.Arch, M.L.A.; does not include MBA, JD, DVM).
- Types of assessment (to inform decision making):
 - External department program reviews (~ every 7-10 years)
 - Student learning outcomes (continuous monitoring; reported every 2 years)
 - Biennial field meetings w/ Graduate School leadership (every 2 years)
 - Self-service (Private) Field Metrics (sortable; demographic details)
 - Public Field Metrics (sortable; aggregate demographics)
 - Student Surveys (results are summary Public and detailed Self-service)
 - Admitted Not Attending (August)
 - New Students (September)
 - PhD Student Experience (February, every 2 years)
 - Exit Survey (all graduates, every term)



Learning Outcomes & Assessment

- Explicit learning outcomes stated for each degree program.
- Every 2 years, each degree program reports on one or more learning outcomes:
 - Measures used (what did they assess, and how?)
 - Findings/Observations (what did they conclude?)
 - What will they do in response? (changes, improvements, continuation of activities)

Learning Assessment

Graduate education at Cornell is diverse, cross-disciplinary, and dynamic. While specific learning goals reside within the many academic programs, a set of overarching outcomes characterizes the graduate educational experience.

The maintenance of academic quality resides primarily with graduate field faculty and directors of graduate study, working through the Special Committee – the group of faculty providing primary advisement and academic oversight for each graduate student.

Faculty assess student performance through a variety of direct and indirect measures; these include:

- the assignment of registration units, which record student progress semiannually;
- official milestones such as qualifying exams (Q exams), administered early in an academic program, admission to candidacy exams (A exams)

Graduate Education Outcomes The student will be able to:	1 (Unacceptable)	2 (Fair)	3 (Very Good)	4 (Outstanding)
demonstrate knowledge of current research directions for the field of study.	Gaps in basic knowledge. Does not understand basic concepts, processes, or conventions of the discipline. Does not understand or misses relevant literature. Misrepresents or missues sources.	Displays a basic understanding of the field. Literature review is adequate but not critical.	Displays a solid understanding of the field. Uses appropriate, standard theory, methods and techniques. Some exploration of interesting issues and connections.	Demonstrates thorough mastery as well as creativity in drawing on multiple sources. Synthetic and interdisciplinary. Demonstrates a deep understanding of relevant literatures.
show effective oral communication skills.	Argument is weak, inconsistent, contradictory, unconvincing or invalid.	Provides solid, expected results and answers. Clear and coherent.	Gives a solid argument with novel or fresh insights. Original with clear and coherent details.	Compelling, exciting, and persuasive. Has a point of view and a confident, independent, authoritative voice.
respond adequately to questions posed.	Unable to articulate an argument.	Provides a coherent response with some logic gaps or inconsistencies.	Shows understanding and mastery of subject matter.	Exhibits mature, independent thinking. Demonstrates command and authority over the material.
display effective written communication skills.	Academic writing lacks structure and organization. Writing has extensive spelling and grammatical errors.	Writing is adequate. Structure and organization are weak but sufficient.	Well written and well organized.	Concise, elegant, engaging, interesting, sophisticated, and original. Connects components seamlessly.
effectively frame or communicate the student's current research.	No independent research. Question or problem is trivial, weak, unoriginal, or previously solved.	Demonstrates competence but is not very original or significant. Displays little creativity, imagination, or insight.	Has a compelling question or problem. Argument is strong, comprehensive, and coherent. Has some original ideas, insights, and observations.	Argument is focused, logical, rigorous, and sustained. Proposed project is original, ambitious, creative, significant, and thoughtful. Acks new questions or addresses an important question or problem.

Sample Rubric for Evaluation of PhD Student Progress

see also

Rubric and Structured Observation (PDF) Assessment Metrics (Excel) Assessment of Graduate Programs: Clear Simple, and USEFUL (PDF) Video from Learning Assessment Workshop

Degree Program Learning Outcomes

 Learning outcomes and assessment plan posted publicly for each degree program.

Field of Classics Assessment Plan 2011

Proficiency

Overarching Goals

Classics	\$							
Classics			-					
APPLYING	DEGREE INFORMATION DES	CRIPTION	FACULTY	ASSESSN	IENT			
	Classics Ass							
Faculty asse	ss student performance throug	n a varietv o	f direct and i	indirect me	asures;			
	Timeframe	Source		ia	annually;			
					ly in an			
	by end of second semester				2			
	(May of year 1)	Field records	supplied by Grad	uate School	ess breadth			
	by end of fourth semester (May of year 2)	internal Field	records					
	before the beginning of the seventh semest		records					
	(by the end of August)		Field records supplied by Graduate School					
tation prospectus	at the beginning of the second semester of the fourth year		supplied by Grad	10	d			

	<u> </u>					
		by end of second semester				
Complete degree in a timely fashion (5-6 years)	 pass first year exam 	(May of year 1)	Field records	supplied b	y Graduate School	
		by end of fourth semester				
	2. pass Q exam	(May of year 2)	internal Field	d records		
		before the beginning of the seventh semester				
	3. pass A exam	(by the end of August)	Field records	supplied b	y Graduate School	
		at the beginning of the second				
	presentation of dissertation prospectus	semester of the fourth year	Field records supplied by Graduate School			
	5. obtain 6th year funding (where applicable)	by December of year 5	assessment b	sment by faculty using rubric		
	6. pass B exam	no later than end of year 6	Field records	supplied b	y Graduate School	
Make an original and substantial contribution to the field						
Think originally and independently to develop concepts and methodologie	s 1. dissertation	no later than end of year 6	Field records	supplied b	y Graduate School	
Identify new research opportunities within the field	2. research projects or papers for dissemination	oongoing	CV review, ar	nnual reviev	v, or field survey	
emonstrate advanced research skills						
lemonstrate proficiency in languages	1. pass Q exam	by end of fourth semester (May of year 2)	internal Field	d records		
	pass modern language exams	1st by end of the third year, 2nd by end of the	internal Field	d records		
naster application of existing research methods and techniques	completion of 2 chosen research papers	by the time of the A exam	internal Field	d records of	paper grade	
	satisfactory coursework as appropriate					
communicate in a style appropriate to the discipline	to each concentration	ongoing	annual revie	w, transcrip	ot	
Demonstrate professional skills and commitment to the values of scholars	nip					
isten, give, and receive feedback effectively	1. TA evaluations	ongoing	semesterly T	A evaluation	ns	
	2. TA observation	ongoing	structured of	oservations		
	3. student receptivity to criticism of academic	w ongoing	annual revie	w, CV reviev	v	
Show commitment to professional development and knowledge transfer	conference participation	ongoing	annual revie	w, CV reviev	v	
	E attand dapartment lactures. TA training lucha	rongoing	annual rouin	w.obconust		

Measurements

Public Field Metrics: Admissions; Enrollment; PhD Attrition & Completion; Median Time-to-Degree; Job Placement



Academics

Fields of Study

Faculty

Graduate Degrees

Research and Scholarship

Learning Assessment

Field Metrics

students and faculty

- Academic Calendar
-) Commencement
- CU-CIRTL
- > Events Calendar
-) Forms
-) Requirements
-) Policies
-) Thesis and Dissertation
- Professional Development
- Malaama Admitted Studentel

home > academics > field metrics

Field Metrics

To provide comprehensive information about advanced study at Cornell, the Graduate School is posting filterable data for several key areas: applications and yield, enrollment, attrition and completion, PhD outcomes and median time to degree, and job placement. Reports are filterable by graduate degree type, broad discipline groups, and graduate fields of study.

print share

Graduate Field Selectivity and Yield Over Five Years

The selectivity and yield view shows a five year trend for applicants, applicants who were offered admissions, and admitted students who completed all requirements to become students at Cornell (matriculants). Discipline levels indicate how fields compare to their Cornell peer group.

> Graduate Field Selectivity and Yield Over 5 Year Trend

Graduate Field Enrollment Profile Over Five Years

The field enrollment profile displays the number of new student enrollments versus the students who are returning for a second year and beyond.

) Graduate Field Enrollment Profile Over 5 Years

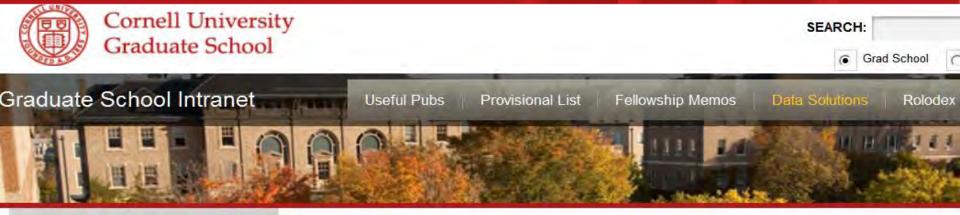
Graduate Field Assessment in PhD Attrition and Completion Rates by Percent or Count

The attrition and completion rate view summarizes the interval in which students within the most recent ten cohorts either complete their PhD degree (completion) or leave the academic program (attrition). The information within this view can be

PhD Outcomes & Time-to-Degree: by Graduate Field (Public Version)

				Fie	ld P	hD O	utco	mes	and M	edian Tim	e-to-Degree	e by Cohor	ts			Cornell University
ield:	Ì	Mechani	ical Engir	neering												Graduate School
-	٨	II DED	Outcom	en fer l	lookar	iaal En	minocri									
	A		Outcom	les for f	viecnar		- 0									
36.4%	23.1%			17,6%	20.0%		11.4%	13.8%								
36					20.0%											
54.5%	78.9%	100.0%	100.0%	70.6%	60.0%	92.9%	85.7%	86.2%	96.3%							
9.1%				11.8%												
2003	2004	2005	2006	2007	2008	2009	2010	2011	2012							
PhD	Attrit %		PI	hD Awar	d %		PhD Enr	oll %								
				0	verall N	<i>l</i> edian	Time-to	-Degre	e for Mech	anical Enginee	ering in Doctoral, I	Professional Mas	ters, Research N	lasters Programs	5	-
	_	_		2003		2004		2	005	2006	2007	2008	2009	2010	2011	2012
octora	I Count		1	11	1	13	-		5	9	17	10	14	35	29	27
octora	ITTD			4.32		5.18		5	.37	5.35	4.99	4.60		2.01		
laster's	s Count			55		60		3	35	40	45	63	48	83	58	58
/aster's	s TTD			0.74		0.76		0	.76	0.76	0.99	0.76	0.74	0.76	0.76	0.76
Share	f	y 🖂	00													+ Downloa

Self-service Metrics (Protected Access)



Reports

Data Request

Field Metric Reports

GR Admissions Reports

GR Admissions Test Reports

GR Committee Reports

GR Current Students

GR Degree Reports

GR Enrollment Reports

GR Milestones

Tips and Tricks

home > data solutions

Data Solutions

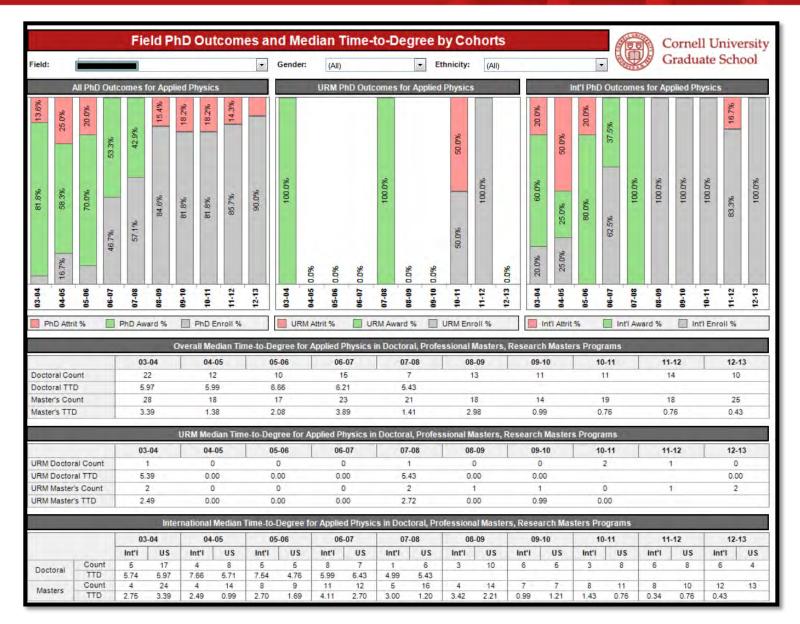
Welcome to the Data Solutions online report repository. Within these pages, you will find a variety of assist you in your graduate student administration data needs. To find the data you need, simply vie subject areas in the navigation menu to the left. The menu will continue to grow as we regularly add necessary reports to our repository. We suggest reading through the **Tips and Tricks** before running these will help you best use this tool. Please remember that you are often dealing with sensitive data respect FERPA at all times. FERPA is the Family Educational Rights and Privacy Act, and affords s certain rights with respect to their education record. For more information on FERPA and the univer please refer to the following websites:

> Policy 4.5 - Access to Student Information

Student Record Privacy Statement: Annual Notification Under FERPA

If for some reason you do not find the necessary information you seek, do not hesitate to submit a t our data request ticketing system. A link can also be found to your left under "Data Request".

PhD Outcomes & Time-to-Degree: by Field or Discipline, (Private Version) Gender, Ethnicity, Citizenship



Power of Interactive Charts – Identify Trends

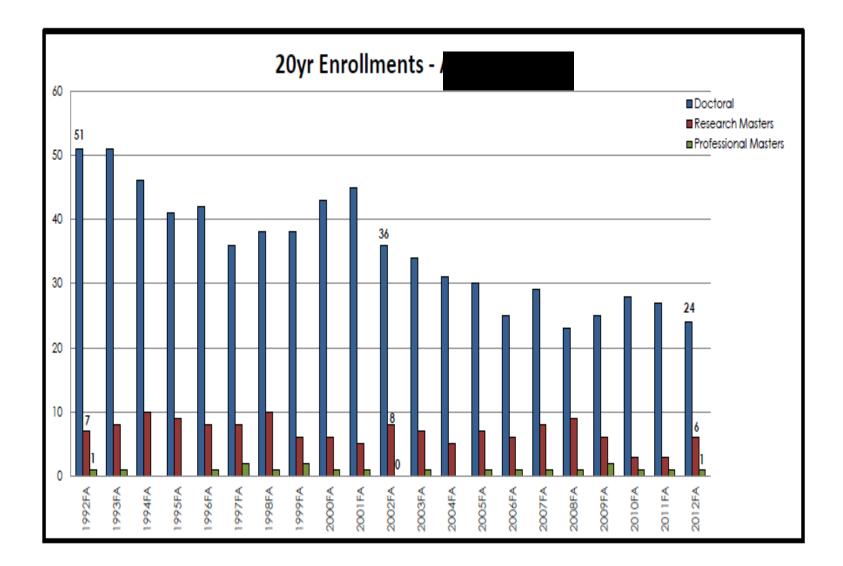
I	S. EDITION - Friday, May 17, 2013 As of 9:27 AM EDT
Но	ne World U.S. New York Business Tech Markets Market Data Opinior
	CIO Big Data Cloud Talent & Management Security
	Cornell Graduate School Harnesses Data Visualization Article Comments (2)
\sim	Email 🖶 Print 🖬 🗹 🏹 in A A
U	Joel Schectman Reporter a federal grants for advanced study become harder to get, leaders at Cornell inversity Graduate School wants to help doctoral students earn their degrees more
	ickly. They view data visualization as a key tool in that effort.

out path to a doctorate degree increasingly untenable. The software Tableau will allow

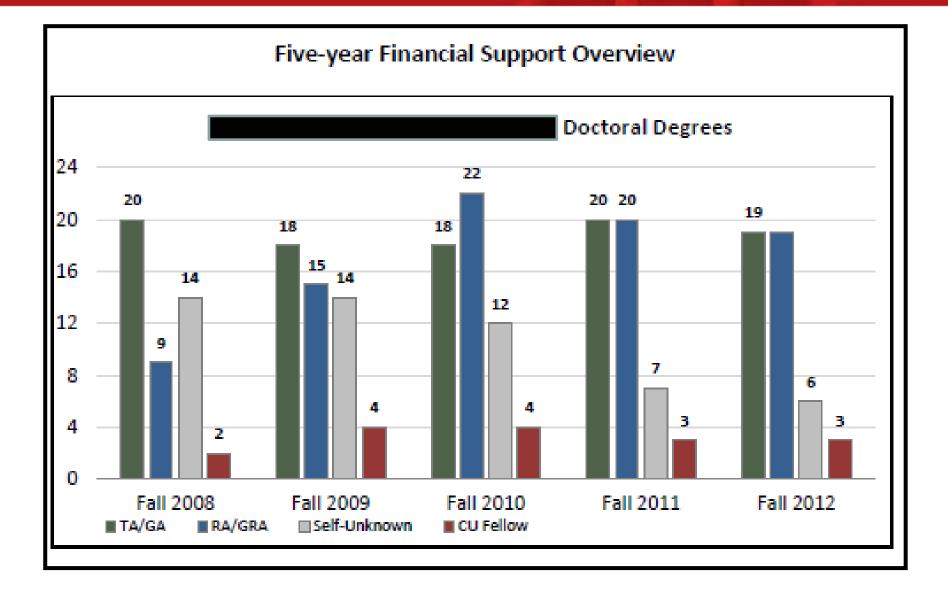
PhD Attrition & Completion: by Field or Discipline, Gender, (Private Version) Ethnicity, Citizenship

Field:		Field	d Ass	essm	ent in	PhD	Attriti			_	on Ra	tes by	Perc	ent or		t Number	•	- eta 11	Cornell L Graduate	
		All D	octoral A	Attrition f	or Econo	1000							ompletion			AULIDEI			Totals	
	Cohort Count	1 Year Attrit	2 Year Attrit	3 Year Attrit	4 Year Attrit	5 Year Attrit	6 Year Attrit	6+ Attrit		Cohort Count	1-3 Yr Comp	4 Year Comp	5 Year Comp	6 Year Comp	7 Year Comp	8 Year Comp	8+ Comp	PhD Attrit %	PhD Award %	PhD Enroll %
03-04	31	0.0	3.0	2.0	0.0	0.0	1.0	0,0	03-04	31	0.0	3.0	5.0	10.0	4.0	2.0	0.0	19.4%	77.4%	3.2%
04-05	22	2.0	2.0	0,0	0.0	1.0	0,0	0,0	04-05	22	1.0	0.0	5.0	4.0	3.0	2.0	0.0	22.7%	68.2%	9.1%
05-06	13	2.0	0.0	0.0	0.0	0.0	0,0	0.0	05-06	13	0.0	0.0	3.0	6.0	2.0	0.0		15.4%	84.6%	0.0%
06-07	22	1.0	0.0	1.0	0.0	1.0	0.0	0.0	06-07	22	0.0	1.0	5.0	11.0	1.0			13.6%	81.8%	4.5%
07-08	22	1.0	1.0	0.0	1.0	0.0	0.0		07-08	22	0.0	1.0	7.0	0.0				13.6%	36.4%	50.0%
08-09	16	1.0	0.0	4.0	1.0	0,0			08-09	16	0.0	1.0	0.0					37.5%	6.3%	56.3%
09-10	20	0,0	2.0	0.0	1.0				09-10	20	0,0	1.0						15.0%	5.0%	80.0%
10-11	17	0.0	1.0	1.0					10-11	17	0.0							11.8%	0.0%	88.2%
11-12	31	2.0	2.0						11-12	31	0.0							12.9%	0.0%	87.1%
12-13	30	0.0							12-13	30	0.0							0.0%	0.0%	100.0%
		URM	Doctoral	Attrition	for Econ	nomics					URM	Doctoral	Completio	on for Eco	onomics				URM Total	s
	URM Count	1 Year Attrit	2 Year Attrit	3 Year Attrit	4 Year Attrit	5 Year Attrit	6 Year Attrit	6+ Attrit		URM Count	1-3 Yr Comp	4 Year Comp	5 Year Comp	6 Year Comp	7 Year Comp	8 Year Comp	8+ Comp	URM Attrit %	URM Award %	URM Enroll %
03-04	3	0.0	2.0	0.0	0.0	0.0	0.0	0.0	03-04	3	0.0	0.0	0.0	0.0	0.0	1.0	1.0	66.7%	33.3%	0.0%
04-05	1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	04-05	1	0.0	0.0	0,0	0.0	0.0	0.0	0.0	100.0%	0.0%	0.0%
05-06	0	0.0	0.0	0.0	0.0	0,0	0.0	0.0	05-06	0	0.0	0.0	0.0	0.0	0.0	0.0		0.0%	0.0%	0.0%
06-07	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	06-07	1	0.0	0.0	0.0	1.0	0.0			0.0%	100.0%	0.0%
07-08	0	0.0	0.0	0.0	00	0.0	0.0		07-08	0	0.0	0.0	0.0	0.0				0.0%	0.0%	0.0%

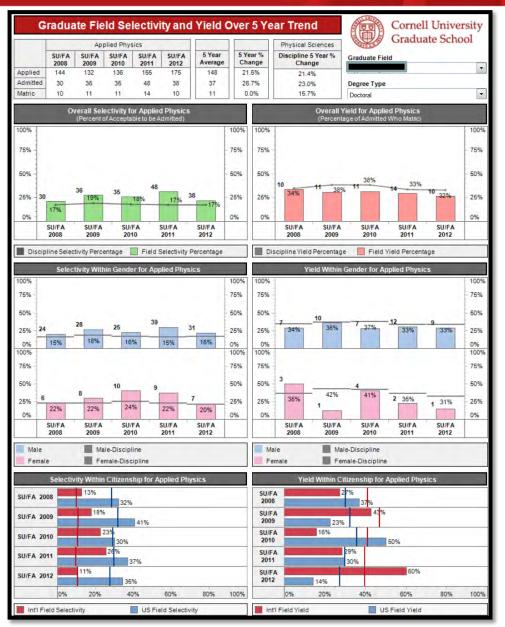
Enrollment Trends by Field and Degrees



Graduate Student Funding Trends



Admissions Selectivity & Yield: By Field & Discipline, (Private Version) Degree, Gender, Ethnicity, Citizenship



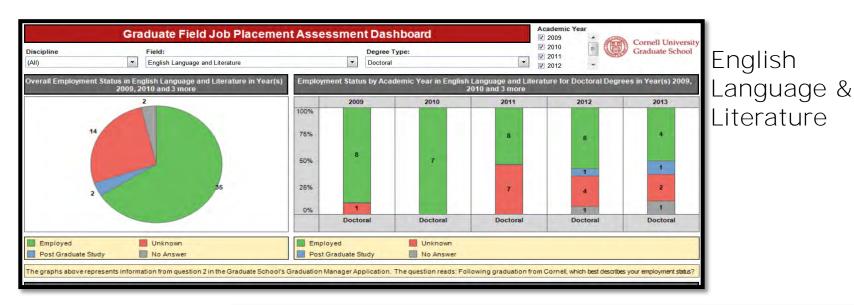
Student Progress on Exams: By Field or Discipline, Degree, Gender, Ethnicity, Citizenship, Registration Status, Exam, Year, Timing

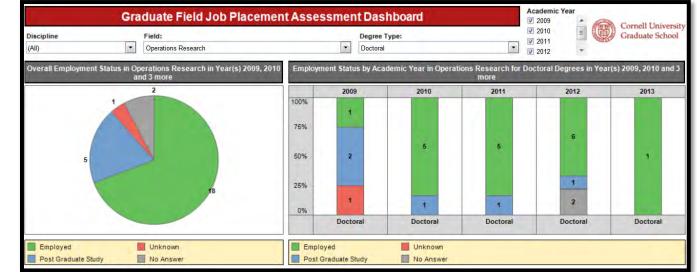
Registered S		nder	URM Status (All)	▼ Passe	е Туре	Milestone V (AII) AEXAM BEXAM V MEXAM		>		rk Schedule Schedule	Admit Year (All) 99-00 98-99 97-98 96-97	*	Bench M X Beh V With
Name	Admit Term F	Degree Plan	Milestone	Attempt	Date Attempted	Milestone Complete			1	Medi	ian Time to E	xam by C	itizenshij
ame	1996FA	PHD	AEXAM	1	10/9/1998	Passed	4			AEX	AM	BEX	AM
			BEXAM	1	11/9/2001	Passed	1		10				
	1999FA	PHD	AEXAM	1	3/4/2002	Passed	4		-				
			BEXAM	1	6/10/2004	Passed	1		8				
	2007FA	PHD	AEXAM	1	9/3/2009	Passed	1	-	6				6.1
			BEXAM	1	4/23/2013	Passed	1		0	5.5	5.5	5.5	
	2002FA	PHD	AEXAM	1	11/15/2004	Passed	4		4				
			BEXAM	1	9/8/2009	Passed	×						
	2007FA	PHD	AEXAM	1	1/16/2009	Passed	1		2				
			BEXAM	1	9/7/2011	Passed	1		-				
	1999FA	PHD	AEXAM	1	3/14/2002	Passed	4		0				
			BEXAM	1	11/30/2005	Passed	1			Intr'l	US	Intr'l	US
	1998FA	PHD	AEXAM	2	12/7/2000	Passed	1		-	S	tudent Cour	t by Citize	enship
			BEXAM	1	12/17/2003	Passed	1		1.000	AEXA		BEXAM	
	1994FA	PHD	AEXAM	1	3/5/1998	Passed	×		Intr'i	63		37	
			BEXAM	1	11/10/2000	Passed	1						
	2010FA	PHD	AEXAM	1	11/6/2012	Passed	1		US	185		112	
	1991FA	PHD	AEXAM	1	7/30/1993	Passed	1		-	Me	dian Time to	Exam by	Gender
	1991FA	PHD	AEXAM	1	5/4/1994	Passed	1		-	AEX		BEX	
	1990FA	PHD	AEXAM	1	11/30/1995	Passed	×		10				
	2001FA	PHD	AEXAM	1	11/18/2004	Passed	×						
			BEXAM	1	6/12/2007	Passed	1		8				
	2005FA	PHD	AEXAM	1	11/20/2007	Passed	4		6		6.0	5.8	6.0
			BEXAM	1	8/30/2011	Passed	1		0	5.0	1		
	2003FA	PHD	AEXAM	1	11/30/2005	Passed	1	=	4				
			BEXAM	1	10/1/2010	Passed	×						
	1997FA	PHD	AEXAM	1	8/6/2001	Passed	×		2				
			BEXAM	1	5/15/2003	Passed	*		1ET				
	2004FA	PHD	AEXAM	1	10/26/2006	Passed	1		0				
			BEXAM	1	8/12/2011	Passed	1	1		F	M	F	M

Time-to-Degree by Faculty Advisor: By Field or (Private Version) Discipline, Degree

	Median Time To Degree Over 10 Years w/ Current Students by Faci	ulty Chairperson
Discipline Life Sciences		Degree Type Doctoral
20	Faculty Time to Degree for Biochemistry, Molecular & Ce	ell Biology
15 -		
10		<u>5.7</u>
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	3 <u>47</u> 3 <u>44</u> 2 <u>1 1 1</u> 0 0 2 <u>0 5 5 0 - m 5</u>

Initial Job Placement: By Field or Discipline, Degree (Public and Private Versions)





Operations Research

Career Outcomes: Planned Alumni Survey

- Doctoral alumni career outcomes surveys, starting in 2014 (2, 7, 15 years out).
- Complemented with social media for placement/career path information.
- Career path, reflections on value of graduate education for job.
- Perceptions of value of doctoral education for job entry currently.



Student Surveys: Public summary and Private detailed versions to be available; By Field, Discipline, Gender, Citizenship, Family, Sexual Orientation



Rate the extent to which you agree or disagree with the following statements concerning advising in your graduate degree program:

	Strongly disagree	Generally disagree	Neither agree nor disagree	Generally agree	Strongly agree	Not applicable
My advisor clearly stated expectations for my academic progress.	Ø	0	0	Ø	0	
My advisor had reasonable expectations for my academic progress.	0	0	Ó	0	0	
My advisor was available when needed (in-person, via email, other).	Ø	0	Ø	0	0	
My advisor gave me constructive feedback on my work.	0	0	0	0	0	
My advisor promoted my professional development.	Ø	0	Ø	0	0	
My advisor discussed my research with me on a regular basis.	Ø	0	Q	0	O	
My program provided adequate advice on Cornell Policy 1.4: Care and Use of Animals in Teaching and Research (Interim Policy).	Ø	0	Ø	Ø	0	0
My program provided adequate advice on Institutional Review Board approval for research involving human participants.	0	Ø	0	0	0	0

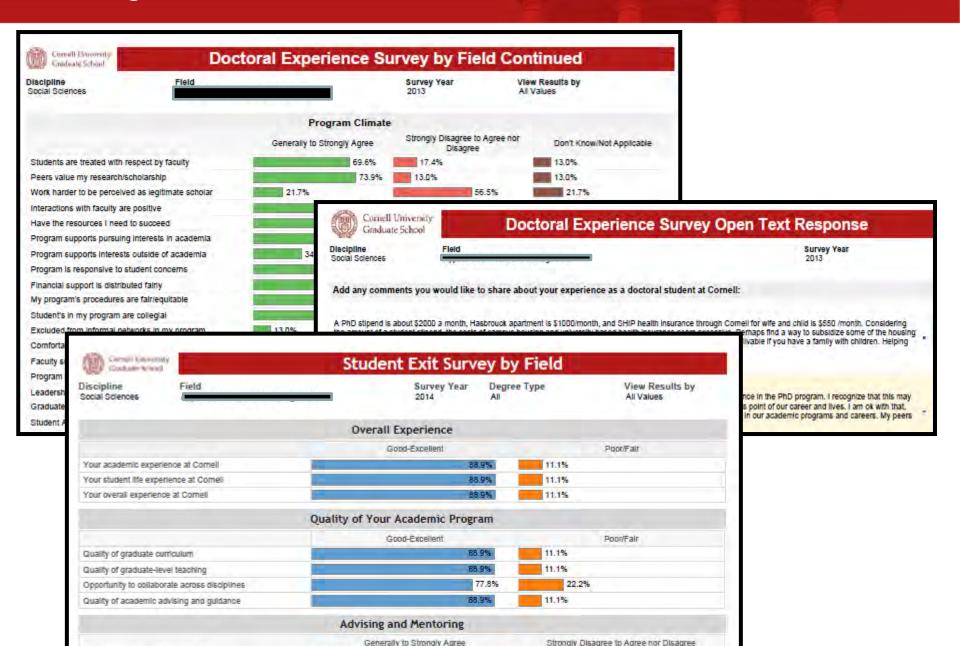
Experience & Exit Survey Topics:

- Overall Experiences
- Quality of Your Academic Program
- Advising and Mentoring
- Professional Development
- Research Experience
- Program Climate
- Campus Climate
- Resources and Services
- Learning Outcomes
- Career Plans

<u>New Student & Admitted Not</u> <u>Attending Topics</u>:

- Top Three Schools
- Decision to Apply
- Decision to Enroll
- (First Impressions)

Survey Dashboards: Public & Private Versions



Outcomes of Assessment: Field and Graduate School

print share

Conversations and Actions

home > professional development

Professional Development

The Office of Inclusion and Professional Development and several of our partners including the Office of Graduate Student Life, CU-CIRTL, the Center for Teaching Excellence, the Office of Post Doctoral Studies, and Career Services offer professional development programs for graduate students and postdocs, designed to build core competencies and transferable skills in the following areas: Career Development, Leadership & Management, Teaching, Responsible Conduct of Research, and Personal Development.

For more information on the core competencies, click on any competency below.

- Communication
- Career Development
- Leadership & Management
- Teaching
- Responsible Conduct of Research
- Personal Development

Spring/Summer 2013 Program Schedule

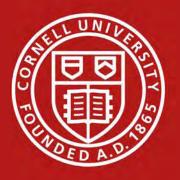
Core Competency	Title of Program (click on title for more information)	Date and Time
•• •	CV to Resume Seminar	January 31 12:00 - 1:00pm
•• •	Preparing for a Career Fair Visit	February 12 12:00 - 1:00pm
••	CIRTLCast: Service Learning in STEM Disciplines	February 19 11:45am -1pm
• •	We're in This Together: Successful Dual Career Couples in Higher Education	March 6 12-1:30pm
	What is the Secret to Managing Time?	March 12 12-1:30pm
	Mentoring research at a primarily undergraduate institution	March 13 12pm - 2pm
100		March 14

In Fields:

- Time-to-degree
- Timing of exams
- Requirements in relation to learning outcomes
- Advising quality
- Career planning
- Field mergers

In Graduate School:

- Programming to support
 Core Competencies
- Best practices
- Resource allocation decisions
- Campus partnerships
- External funding



Cornell University

Discussion Topics:

- Introductions in small groups: identify facilitator & reporter
- Local activities:
 - What doctoral program assessment activities are occurring on your campuses?
 - What decisions does assessment data inform?
- What issues would you consider to determine what assessment approaches would be relevant for your institution?
- What are the strengths and limitations of various assessment approaches?
- What is the role of faculty and graduate students in assessment?