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The USG STEM II Initiative at Georgia Perimeter College

Pamela J. W. Gore Georgia Perimeter College

Kouok Law Georgia Perimeter College

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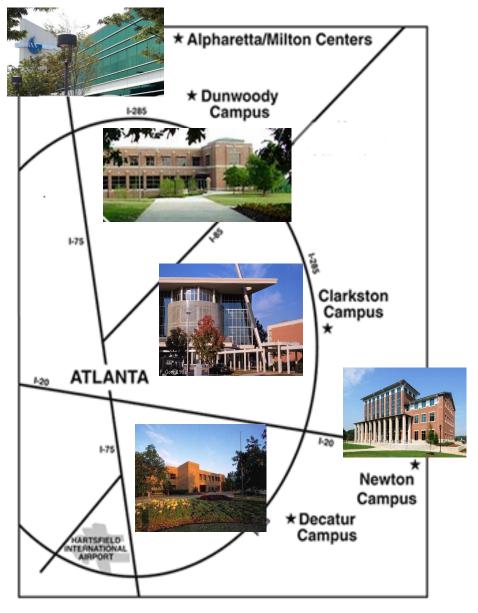
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GEORGIA PERIMETER COLLEGE



- Five locations + online
- 26,470 students Fall 2011
- 3rd largest institution in the University System of GA
- GA's largest freshman class -15,700 students
- The college of choice for more Georgia students

STEM II INITIATIVE AT GPC

The STEM II Initiative at GPC consists of several interrelated strategies:

- Faculty Mini-grants
- Peer-Led Undergraduate Study (PLUS) Tutors
- Project MESA
- Seminars and workshops
- Internship and research experience placement
- STEM Achievement Recognition (STARs)
- STEM Career and TAG Fair
- Student chapters of STEM Professional Organizations
- Executive Director of STEM

PEER-LED UNDERGRADUATE STUDY (PLUS) TUTORS

Six sophomore-level students were hired to serve four campuses at GPC, each working 10 hours per week with students in CHEM 1211 in Fall 2011, and both CHEM 1211 and 1212 in Spring 2012.





The USG STEM II Initiative at Georgia Perimeter College

Pamela J. W. Gore and Kouok Law

Georgia Perimeter College, Clarkston, Georgia 30021

STEM FACULTY MINI-GRANTS

- Encouraging faculty collaboration between campuses and disciplines
- Producing innovating educational materials
- Offering field research experiences for students in STEM gateway courses
- \$4500 per project



2011-2012 Mini-Grant Projects

Kim Bennekin	
Amy Cook	

Amy Cook

Carmen Hall

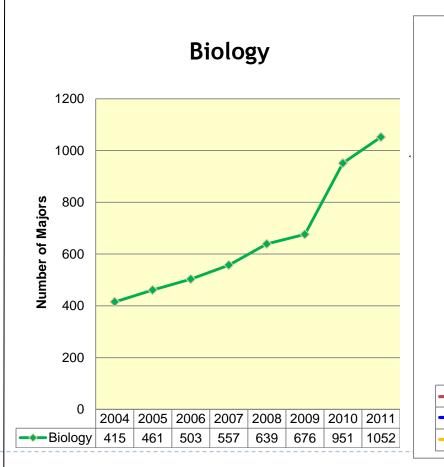
Jonathan Lochamy Ilse Ricketts

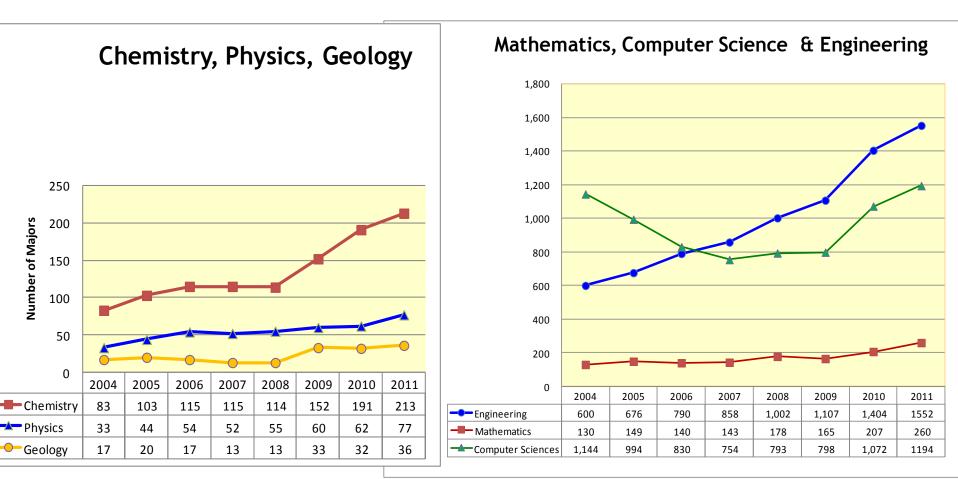
Behnaz Rouhani

Allison Wolf

- Fostering meaningful interaction in online college algebra courses Lecture slides for Principles of Chemistry I and II Teaching demonstration videos for Principles of Chemistry II Undergrad research at Snapfinger **Creek Mitigation Bank**
- Discover Life Research Interns Introduction to Science Laboratory Bootcamp
- Calculus
- results

NUMBER OF STEM MAJORS IS INCREASING









Identifying students' misconceptions in

More effective Resources - better

Preparing educationally disadvantaged STEM majors (female, minorities, lowincome, 1st generation college) to transfer and graduate from a four-year institution with a math-based degree. Assists students in: **ESA**Mathematics
Engineering
Science
Achievement

- developing academic and leadership skills,
- increasing educational performance, and



GPC MESA Transfers

	Summer	Fall	Spring
FY-2008	1	5	6
FY-2009	9	24	16
FY-2010	8	24	20
FY-2011	15	16	14
FY-2012	11	30	24
FY-2013	12?	32?	28?
TOTAL	56	131	108

GPC-MESA Cumulative GPA

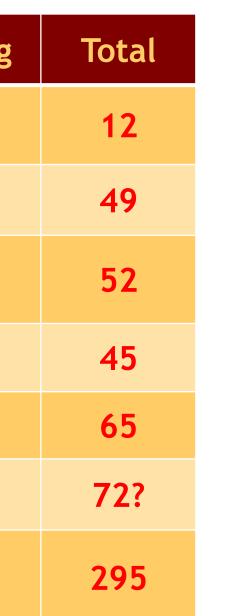
	2007*	2008	2009	2010	2011	2012
GPA≥3.5	20.5%	30.0%	31.0%	25.5%	37.9 %	?
3.0≤GPA<3.5	31.8 %	21.4%	22.5%	35.5%	28.4%	?
2.5≤GPA<3.0	20.4%	25.7%	19.0 %	18.2%	21.1%	?
2.0≤GPA<2.5	9. 1%	18.7%	20.4%	13.6%	9.5%	?
GPA<2.0	1 8.2 %	4.3%	7.1%	7.3%	3.2%	?



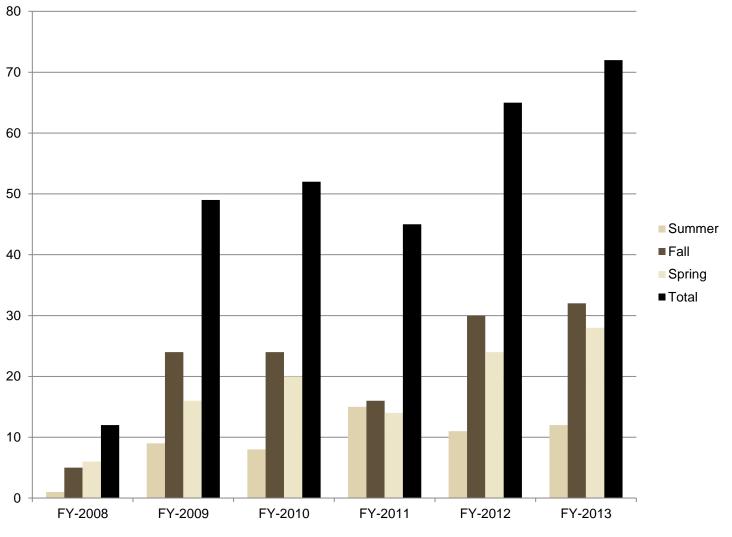
PROJECT MESA

gaining confidence in their ability to compete professionally

	GPC MESA Scholars					
6		Summer	Fall	Spring	Total	
	FY-2008		49	55	70	
	FY-2009	35	96	115	142	
	FY-2010	32	79	53	110	
	FY-2011	24	69	71	95	
	FY-2012	28	77	85?	125?	
	TOTAL	119	370	379?	542?	



GPC MESA Transfer Chart







MESA Conference 2012 with students from GPC, Atlanta Metropolitan College, and Darton College.