Seymour & Esther Padnos College of Engineering & Computing

INCLUSION PLAN

January, 2010

University Goal	University Strategy	PCEC Objectives	PCEC Implementation Initiatives (ongoing, new, expand?)	Measures	Accountable Unit(s) P=Primary P2=PCEC
					Primary Partner
Increase the presence of faculty from underrepresented groups (Latino, Native American, African American), LGBT, international and faculty with disabilities	Utilize university Affirmative Action Plan to identify under- utilization of minorities and women Network with diverse professional associations Advertise in diverse publications	Continue to enrich an already diverse faculty (focus = female participation / based upon university data) 2009 Baseline: - PCEC Female = 12.5% (19% - 20% avail.) (U) -PCEC URE = 30.4% (6.1 - 6.4% avail.) -GVSU URE = 15% Note: Affiliates are included in PCEC data Note: URE = Underrepresented ethnicity Note: U = Underrepresented	Utilize university data (O) Advertise in diverse publications and online resources (O) Maintain & expand visibility within diverse organizations including NSBE, SWE, etc.(O) -SWE Conf activities -NSBE Conf activities -NSBE Conf activities -ASEE MIND Division -WIC Conf Utilize NSF Advance Project materials, lessons learned, techniques, etc. Train Inclusion Advocates for Search and Personnel Committees and for School Inclusion mentoring (O)	PCEC demographics -vs- available population per I&E reports Trends in under- represented populations in applicant pools	College Deans (P) Schools (P2) Office of the Provost Division of Inclusion and Equity - Office of Affirmative Action

University Goal	University Strategy	PCEC Objectives	PCEC Implementation Initiatives (ongoing, new, expand?)	Measures	Accountable Unit(s) P=Primary P2=PCEC Primary
					Partner Partner
Increase the presence of students from historically underrepresented groups (Latino, native American, African American)	Focus additional recruitment efforts in diverse local areas such as Holland, Grand Rapids, Muskegon, Benton Harbor, Flint, Wyoming, etc. Provide information and consultation in support of individual college recruitment efforts as requested.	Exceed GVSU ethnic diversity demographics Close gap with national averages for discipline area diversity demographics 2009 Baseline: - GVSU = 11.8% URE - PCEC = 12.0% URE - National Avg EGR=17.6% - National Avg CIS=29.1%	Collaborate with and leverage university initiatives (O) -OMA Activities -Facilitate student visitation & tours (O) Pipeline Activities (see below) (O) Support and leverage student sections of professional societies (O)	PCEC statistics -vs-GVSU statistics and national statistics per I&E and national reports Track trends of PCEC statistics and national trends	Office of Admissions (P) College Faculty and Regional Sites -PCEC Dean (P2) -PCEC Student Services Office (P2) -PCEC Schools (P2)
		Increase female participation and retention (counter to national trends of decreasing female participation). 2009 Baseline: -PCEC Female = 10%	Appropriately expand curricular offerings in areas that attract female students such as biomedical engineering (O) Partner with other GVSU colleges on external funding	PCEC statistics -vs- national averages Track trends of PCEC statistics and national trends	Office of Admissions (P) College Faculty and Regional Sites -PCEC Dean (P2) -PCEC Student

University Goal	University Strategy	PCEC Objectives	PCEC Implementation Initiatives (ongoing, new, expand?)	Measures	Accountable Unit(s) P=Primary P2=PCEC Primary Partner
		-PCEC Fr-Female = 13.5% -National Female EGR=16.7 -National Female CIS=18%	opportunities that support female students such as NSF – PRISM (O) Collaborate with and leverage university initiatives (particularly RMSC) (O) Pipeline Activities (see below) (O) Support and leverage student sections of professional societies including SWE and S. Fleischmann ladies tea program (do we currently include CIS students?) (O) Utilize faculty from under-represented groups as mentors and role models (N?)		Services Office (P2) -PCEC Schools (P2)

University Goal	University Strategy	PCEC Objectives	PCEC Implementation Initiatives (ongoing, new, expand?)	Measures	Accountable Unit(s) P=Primary P2=PCEC Primary Partner
Increase the presence of international students		Continue to expand the number of international students and to exceed GVSU international demographic 2009 Baseline: GVSU = 1.26% Intl. PCEC = 30 Intl. Students PCEC = 2.6% Intl.	Collaborate with and leverage university initiatives (particularly PIC) (O) Faculty alma mater visitation & partnering program(O) Increase GA opportunities(O) Highlight current successful international students.	PCEC statistics -vs-GVSU data per I&E reports Annual review of number of GA positions (base and project funded)	Office of Admissions (P) College Faculty and Regional Sites -PCEC Dean (P2) -PCEC Student Services Office (P2) -PCEC Schools (P2)
	Develop a community college initiative that follows students through their 2 years and supports successful transition to GVSU. Identify/address barriers to access for transfer students.	Enhance Community College Interaction & Transfer Clarity 2009 Baseline: Fall '09 EGR X-fer = 51 Fall '09 CIS X-fer = 25	Leverage MECCA activities (O) Enhance web based advising resources (E) Collaborate with Admissions re: Community College liaison activities (briefing luncheons,	Track trend of transfer students to PCEC each year	College Faculty and Regional Sites -PCEC Student Services Office (P) -PCEC Schools (P) -PCEC Dean (P2)

University Goal	University Strategy	PCEC Objectives	PCEC Implementation Initiatives (ongoing, new, expand?)	Measures	Accountable Unit(s) P=Primary P2=PCEC Primary Partner
	Formalize support to guidance counselors who can provide support to students aspiring to GVSU Develop pipeline programs for middle school students to cultivate interest/enhance preparation for specific disciplines.	Continue to enhance & expand our extensive pipeline activities Regularly review & evaluate efficacy of each pipeline program 2008/09 Baseline: Number of programs = ? Number of student participants = 1,300 2009 STEPS Study results indicate? Mathcounts scholarship redemptions = ? FIRST Scholarship Applicants = 1 + direct	Pipeline activities (O): -Sibley Elementary partnership - STEPS Camp - Get-with-the-program Camp - MathCounts competition (regional and state) & scholarship - Science Olympiad competition -FIRST Robotics competition, Lego League and scholarship -AIME project (SME funded effort to enhance K-16, GRCC, GVSU planning & articulation)	Long term STEPS Study Student use of MathCounts scholarship Number of applicants and awards of FIRST scholarship	PCEC Student Services Office (P) PCEC Dean (P2) PCEC Schools (P2)
		admits, Awards = 1	-GRAPCEP (GRPS) STEM Consortium		

University Goal	University Strategy	PCEC Objectives	PCEC Implementation Initiatives (ongoing, new, expand?)	Measures	Accountable Unit(s) P=Primary P2=PCEC Primary Partner
		Renewals = 3 Note: 1 FIRST award each year 2006-2009. All students still on track in engineering.	support & involvement including curriculum and teacher development, curriculum involvement and support, etcHS Internship component to NSF Nano-tech grant - MS and HS Visitation Program - Engineering Projects Days - A World in Motion - Electrathon		
Develop plan for recruitment/admission process for graduate students	Identify financial resources to support the effort Facilitate recruitment of under-represented minority representation required for federal grants across the institution	Expand graduate enrollment to a level that populates existing offerings and supports expanding offerings to meet student and community need Baseline: Fall 2009 MS enrollment = 127 2008/09 grad cr-hr = 1,550	Expand GA positions (O) Graduate scholarship program (O) Faculty alma mater program (O) Updated web and print materials (O)	Graduate enrollment data - number of majors - credit hour production	PCEC Schools (P2) PCEC Schools (P2)

University Goal	University Strategy	PCEC Objectives	PCEC Implementation Initiatives (ongoing, new, expand?)	Measures	Accountable Unit(s) P=Primary P2=PCEC Primary Partner
		2008/09 #GAs = 25 semester appointments Fall 2009 grad schol. = 1 (4 apps, 3 approved, 1 redeemed)	Programmatic additions that leverage existing offerings - courses - certificates - emphases - new PSM? (N) Partner with internship employers to increase awareness of our opportunities (E)		PCEC Dean (P2)

Action Area 1: Access and Equity – Policy/Administrative Initiatives

University Goal	University Strategy	PCEC Objectives	PCEC Implementation Initiatives (ongoing, new, expand?)	Measures	Accountable Unit(s) P=Primary P2=PCEC Primary Partner
Reconfigure Intercultural Advisory Council (IAC) to better support the work of the Division of Inclusion and Equity	Establish a university committee to advise Division of Inclusion and Equity (University Inclusive Excellence Team – possible new name) Solicit participation of a representative from each college, administrative division, undergrad and grad student representatives	Support Division of Inclusion & Equity efforts and maximize communication with PCEC	Identify and appoint representative to UIET when established (N)	Feedback from OIE	Division of Inclusion & Equity (P) PCEC Dean (P2)
Improve quality of research from a diversity/inclusion perspective	Develop a plan to diversify human research subjects	Improve quality of research from a diversity/inclusion perspective, particularly in providing improved data for longitudinal studies Baseline: 2008/09 publications with this element = ?	Created and filled Sebastian Endowed Chair who assists with this effort (O) Coordinate with appropriate units across GVSU (O) Identify potential students for collaboration through under-represented faculty mentors.	Annual review of research reports and publications	Graduate Studies & Grants Admin. (P) Sebastian Chair (P2)

Action Area 2: Campus Climate

University Goal	University Strategy	PCEC Objectives	PCEC Implementation Initiatives (ongoing, new, expand?)	Measures	Accountable Unit(s) P=Primary P2=PCEC Primary Partner
Conduct climate study of faculty, staff, and students utilizing internal and external consultation	Promote broad campus consultation in process due to mixed/negative perceptions from campus community regarding validity and methods utilized for 2005 climate study Include a focus on issues of collegiality	Improve the climate within PCEC with regard to respect for all and improved collegiality Baseline – see last climate study results	Encourage participation of faculty and staff within PCEC. Ask faculty and staff to encourage participation by students. Build upon results of survey to improve climate within PCEC Gather specific recommendations for projects within our Schools based on the climate survey. (N)	Results of university climate studies	Division of Inclusion & Equity (P) PCEC Dean (P2) PCEC Schools (P2) PCEC Student Services Office (P2)
Design and implement schedule of "Opportunities to Dialogue about Race" and other inclusion related topics such as disability, class, religion, sexual orientation, etc.	Monthly breakfast dialogues on inclusion topics Consider small faculty and/or staff discussion groups	Leverage GVSU efforts to expand these dialogues Baseline = ?	Encourage faculty, staff, and students to participate in these opportunities Integrate topics as appropriate to course content (O)	Annual review of faculty, staff, and student participation	Division of Inclusion & Equity (P) PCEC Dean (P2) PCEC Schools (P2)

Action Area 3: Diversity in Curriculum/Co-curriculum

University Goal	University Strategy	PCEC Objectives	PCEC	Measures	Accountable
University Guar	University Strategy	I CEC Objectives	Implementation	Wieasures	Unit(s)
			Initiatives (ongoing,		P=Primary
			new, expand?)		P2=PCEC
			new, expana.)		Primary
					Partner
Reward and value	Develop local	Provide students, faculty,	Involvement with west	Annual review of	UCC/College
course content that	community connections	and staff with	Side Community	course offerings, co-	Curriculum
integrates culturally	with diverse cultural	opportunities to	organizations such as	curricular activities,	Committee (P)
diverse perspectives	groups	experience the integration	The Other Way	and participation	
(race, class, disability,		of culturally diverse	Ministries and		School on EGR
sexual orientation,		perspectives, particularly	Westown Jubilee		(P)
religion, etc.) where		as they pertain to	Housing (O)		
appropriate		technology and society	Involvement with west		Calcal of ECD
		Baseline:			School of EGR
			Michigan professional		(P)
		2008/09 # organizations involved	chapter of NSBE (O)		
		llivolved	Other regional		
			organizations appear to		????
			fit well with PCEC –		
			SWAN, etc?		
	Create course-based and	Baseline:	2 11 11 1, 010 1		
	co-curricular	2008/09 # courses and			
	opportunities to teach	students in these courses	Development and		School of EGR
	about the impact of socio-	and/or activities = ?	offering of Urban		(P)
	economic disparity		Sustainability course		
			(O)		
	Create opportunities for				
Reward and value	students to be educated		Provide diverse service		
inclusive pedagogy	about working in urban		learning opportunities		PCEC Schools
	communities		via course offerings		(P)
			including EGR 468 –		
			Heat Transfer (housing		
			projects) and CS 463 –		

			IS Project (not-for-						
Action Area 3: Diversity in Curriculum/Co-curriculum									
University Goal	University Strategy	PCEC Objectives	PCEC Implementation Initiatives (ongoing, new, expand?)	Measures	Accountable Unit(s) P=Primary P2=PCEC Primary Partner				
			profit service projects) (O) Provide diverse service learning opportunities via student organizations such as ASME Bikes for Kids, etc. (O, E) Conduct capstone projects in diverse environments when ever possible (O/N?)		PCEC Schools (P)				
Develop/implement diversity/inclusion campus-wide training/education workshops/programs	New Director of Intercultural Training to collaborate with partners	Utilize university wide programs to enhance PCEC climate and effectiveness Baseline: # Trained Advocates for 2008/09 = 6	Utilize Inclusion Advocate program (O) Initiate Personnel Process Advocate program (N)	Annual review of participation	Division of Inclusion & Equity (P) PCEC Dean (P2)				
Co-sponsor Inclusion and Equity related conferences/programs across campus	Raise awareness and understanding of inclusion issues	Assist in making equity related activities available to faculty, staff and students in PCEC and across the university	Co-sponsorship of various programs including: Hispanic Heritage Month, People of Color Network, OMA	Annual review of sponsorships and prioritization of next year sponsorships	Division of Inclusion & Equity (P) PCEC Dean (P2)				

	Baseline: 2008/09 – 3 programs supported	Programs, Women's Center (O)	

Action Area 4: Organizational Learning - Internal

organizational development variety of inclusion related topics including effective interviewing, unconscious bias, cultural competence*, ADA, Proposition 2, etc. Training for all faculty and staff to improve topics identified in associated University Strategy Drovide consultation and intervention to departments/units to ameliorate workplace conflict Training for all faculty and staff participation (D) Baseline: Training for all faculty and staff participation (D) Committee via faculty and staff participation including as instructors (D) Review/revise Diversity Workshops called "On Demand" Enhance training for multicultural assistants Training for all faculty and staff to improve topics identified in associated University Strategy Droylect tools including STRIDE training and U/M CRLT Players (O) Results of university climate studies FOEC Dean (P2) PCEC Schools (P2) PCEC Prof Dev Comm (P2) POEC Open (P2) PCEC Prof Dev Comm (P2) Training for all faculty and staff participation including as instructors (O)	University Goal	University Strategy	PCEC Objectives	PCEC Implementation Initiatives (ongoing, new, expand?) Use of NSF Advance	Measures Annual review of	Accountable Unit(s) P=Primary P2=PCEC Primary Partner Division of
and academic advisors	organizational development Provide consultation and intervention to departments/units to ameliorate workplace	variety of inclusion related topics including effective interviewing, unconscious bias, cultural competence*, ADA, Proposition 2, etc. Utilize professional theatre groups and "train the trainer" concept Review/revise Diversity Workshops called "On Demand" Enhance training for	training for all faculty and staff to improve topics identified in associated University Strategy Baseline: 2008/09 - # events for which we provided instructors = 2 2008/09 - # faculty and	project tools including STRIDE training and U/M CRLT Players (O) Support STRIDE Committee via faculty and staff participation including as instructors	offerings and faculty and staff participation Results of university	Inclusion & Equity (P) PCEC Dean (P2) PCEC Schools (P2) PCEC Prof Dev Comm

Action Area 4: Organizational Learning – Community Outreach

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University Goal	University Strategy	PCEC Objectives	PCEC	Measures	Accountable Unit(s)
			Implementation		P=Primary
			Initiatives (ongoing,		P=Primary P2=PCEC
			new, expand?)		
					Primary Partner
Facilitate and sustain	Superintendent of	Enhance the preparation		Annual review of	COE (P)
an effective	GRPS's: areas of interest	of a diverse population of		activities,	COL(I)
university-wide	GRI 5 3. areas of interest	students and provide		participation, and	PCEC Student
mechanism for	Centers of innovation	opportunities for		mid-long term impact	Services (P)
establishing	Centers of innovation	professional careers,		(where feasible, i.e.	Services (1)
partnerships and	Mentoring/tutoring	particularly in		STEPS, GRAPCEP,	
collaborations with	programs for high school	engineering and		etc. data)	
Grand Rapids Public	students	computing.		cic. data)	
Schools	Statents	companies.			
- do the same for other	High school	Expand the pipeline of	Pipeline Activities		
districts with diverse	reform/opportunities for	talent for the engineering	- STEPS Camp		
populations (i.e.	students to accelerate	and computing	- MathCounts		
Muskegon, Holland,	completion of high	professions.	competition (regional		
etc.)	school/dual enrollment		and state) &		
,	programs in senior year	2008/09 Baseline:	scholarship		
		Number of programs = ?	- Science Olympiad		
	Cultural competence	Number of student	competition		
	training for GRPS	participants = $1,300$	-FIRST Robotics		
	teachers	2009 STEPS Study results	competition and		
		indicate?	scholarship		
	Helping teachers work	MathCounts scholarship	-AIME project (SME		
	with affluence	redemptions = 1	funded effort to		
		FIRST Scholarship	enhance K-16, GRCC,		
	Study teachers' fear of	Applicants = $1 + direct$	GVSU planning &		School of CIS
	students and the impact	admits,	articulation)		(P)
	of that fear on their	Awards = 1	- MS and HS Visitation		
	expectations of students	Renewals $= 3$	Program		School of EGR
			- Engineering Projects		(P)
	Teach pedagogy of		Days		

Action Area 4: Organizational Learning – Community Outreach

					1
University Goal	University Strategy	PCEC Objectives	PCEC Implementation	Measures	Accountable Unit(s) P=Primary
			Initiatives (ongoing,		P2=PCEC
			new, expand?)		Primary
					Partner
	creating a culture of		- A World In Motion		
	optimism				
			- Get-with-the-program		
	Create/prepare pool of		Camp		
	teachers who want to		C'1.1 E1		
	work in urban schools		-Sibley Elementary		
			partnership -GRAPCEP (GRPS)		
			STEM Consortium		
			support & involvement		
			including curriculum		
			and teacher		
			development,		
			curriculum		
			involvement and		
			support, etc.		
			-HS Internship		
			component to NSF		
			Nano-tech grant		
			(O)		
Develop and nurture	Maintain active	Leverage the resources of	Involvement with The	Annual review of	Division of
key partnerships and	membership in Grand	GVSU and the community	Other Way Ministries	partnerships,	Inclusion &
relationships with	Rapids Chamber of	groups to mutual benefit	(O)	participation, and	Equity (P)
community entities	Commerce Cultural	and for greater impact		feedback	
doing (or interested in	Competency Council		Involvement with		School of EGR
doing) similar	Institute for Healing	Baseline:	Westown Jubilee		(P)
inclusion work	Racism	2000/00 #	Housing (O)		
		2008/09 - # organizations			

Action Area 4: Organizational Learning – Community Outreach

University Goal	University Strategy	PCEC Objectives	PCEC Implementation	Measures	Accountable Unit(s)
			Initiatives (ongoing, new, expand?)		P=Primary P2=PCEC Primary Partner
	Partners for a Racism Free Community, etc. Create a list of organizations outside of campus that we as an institution can/should support	and engagements = 10	Involvement with many NPOs via the IS Capstone Project course (O) Other organizations to be engaged? - SWAN		School of EGR (P) School of CIS (P)
Enhance faculty, staff, student involvement in TRIO and Upward Bound Programs	Identify and publicize volunteer opportunities	Leverage these programs to expand the pipeline for students interested in engineering and computing Expand opportunities for collaborative student/faculty scholarship 2008/09 Baseline: - 1 McNair Scholar mentorship - # TRIO tours, etc. = 2 Other participation?	Publicize opportunities among faculty, staff, and students Create a mechanism for faculty to use outreach instruction and seminars targeted at under-represented high-school students as part of their workload.	Annual review of participation and feedback	TRIO/Upward Bound (P) PCEC Dean (P2) PCEC Schools (P2)