

**PROPOSAL FROM MIAMI DADE COLLEGE
TO HOST A FLORIDA CAMPUS COMPACT DAY INSTITUTE
ON ENGAGED SCHOLARSHIP DESIGNED AROUND A “STEM” THEME
Submitted electronically to info@floridacompact.org on July 2, 2010**

A. Primary coordinator/contact responsible for event:

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B. Institute title emphasizing a STEM theme:

Ensuring Enough, for All, Forever--
Using Service-Learning in STEM Disciplines
to Educate for Sustainable Development and the Triple Bottom Line

C. About theme and additional programming expanding engagement at Miami Dade College:

Both theme and title of the proposed institute were collaboratively developed by the Miami Dade College (MDC) Center for Community Involvement (CCI) and Earth Ethics Institute (EEI). The Center for Community Involvement’s mission is to enhance student learning, meet community needs, and foster civic responsibility and a sense of caring for others. The mission of the Earth Ethics Institute is to foster earth literacy in the course objectives of each discipline throughout MDC as well as in the South Florida Community and the extended earth community beyond.

Infusing service-learning into the STEM disciplines at MDC is extremely important for many reasons. MDC is the largest higher education institution in the United States with more than 170,000 students, eight campuses, more than 660 FT faculty, and over 1,000 adjunct professors. A large number of these students and faculty are from STEM disciplines. We believe this project is well-served by an appropriate approach in terms of both process and outcomes. Our proposal aims to infuse service-learning into the STEM disciplines using best practices in service-learning (SL): community defined needs and engaged activities with synchronistic benefits for all participants and the common good. Our design and willingness to grapple with challenges inherent in community college-level STEM fields will make success achievable. Sustainable development has been defined as meeting "the needs of the present without compromising the ability of future generations to meet their own needs" or as stated by in our title: enough, for all, forever. The triple bottom line recognizes the importance of considering people, place and profit in decision making. The recent financial market crisis serves as a powerful reminder we must not view any of these elements in isolation. Together with the community, MDC proposes a project modeling work inspired by the triple bottom line. This project will: train 50 adjuncts and full time faculty and will help them implement a SL experience into their teaching; create a STEM Service-Learning Fellows program; convene community partners whose work relates to the STEM disciplines; bring partners and faculty together for a prolonged and repeated period of time thus creating the opportunity to generate ideas and partnerships. By involving 50 faculty, this project will result in as many as 50 STEM SL project examples that will be invaluable to MDC, Florida Campus Compact, and others interested in STEM and SL. Below is a description of grant activities that will expand STEM engagement at MDC by both “building up to” and “building out from” the core one-day institute.

October 2010 CCI will host a meeting of our identified nonprofit and governmental partners appropriate to STEM disciplines and the institute theme. The purpose of this meeting is to ensure these agencies have a working familiarity with service-learning in order that they might be better able to identify and

articulate their needs in the context of how STEM service-learning students from MDC can address them. The ideas and opportunities generated by the STEM community partners will be the foundation for the SL partnerships, projects and templates that are developed by faculty, students, and partners. This will ensure that projects address authentic STEM-related community needs. The session will be facilitated by EEI and CCI staff.

Months Proceeding Institute A minimum of four offerings of Service-Learning 101 for full time faculty new to service-learning. Workshops will be offered by CCI at various campuses throughout the county and will be open to faculty from other colleges and universities.

February 5, 2011 CCI will partner with the MDC Center for Training and Development (CT&D) to offer an intensive service-learning introductory workshop for adjunct faculty who will be compensated by the College for their participation. The aim is to give adjuncts a foundational understanding in order to prepare them for the more advanced and discipline specific workshops held at the Institute the following week. The session will be facilitated by CCI staff.

February 12, 2011 STEM One Day Institute (see below for description)

March 2011 CCI will host “Educating for Sustainable Development Revisited,” a follow-up to the STEM Institute. This meeting will reconvene Institute faculty attendees for presentation of STEM service-learning projects developed for individual use and publication on the CCI website STEM page and EEI Greening Curriculum page. Assuming participation in all institute related activities, these are the faculty who will be designated as Florida Campus Compact (FLCC) MDC/STEM Service-Learning Fellows. In addition, the session will provide time for feedback and additional guidance to any faculty who have elected to move forward and implement a STEM SL project template. The session will be facilitated by CCI and EEI staff.

D. One Day Institute Date and E. Proposed timeline for activities:

With deference to the strong recommendation of STEM chairs, the Institute date is set as Friday, February 12, 2011. Proposed pre- and post-activities span from September through March.

Activity	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar
Attend FLCC meeting		X						
Compile STEM related SL projects and marketing	X	X	X	X	X	X		
Convene STEM/sustainability appropriate partners			X					
Service-learning workshop- MDC adjunct faculty							X	
Service-learning workshop-MDC FT faculty		X	X	X		X		
Service-learning workshop-open to all						X		
STEM Institute at MDC							X	
Enough, for All, Forever Revisited								X

F. Proposed agenda:

Friday, February 11, 2011

8:00-8:30 *Registration and Continental Breakfast*

8:30-8:45 *Welcome from Florida Campus Compact and local co-hosts, Miami Dade College Earth Ethics Institute and Center for Community Involvement*

- 8:45-9:45 *Plenary Session - Keynote*
Education for Sustainable Development and the Triple Bottom Line
 Charles Hopkins, UNESCO Chair in Education for Sustainable Development (or speaker of similar expertise)
- 9:45-10:00 *Break*
- 10:00-10:55 *Breakout Sessions* – repeated to promote small group size & more interaction
 11:05-11:55 A. **Reflection Toolbox: Techniques Geared Toward the STEM Student**
 B. **Assessing Service-Learning in the STEM Disciplines**
- 11:55-Noon *Break*
- Noon-1:00 *Working Lunch and Plenary Session*
Building a Socially and Civically Responsible Workforce: Integrating Civic Responsibility into STEM Curricula (presenter TBA)
 We will focus on the need to incorporate civic learning objectives in service-learning projects and emphasize that responsibility to others, not just humans, applies to those pursuing all kinds of careers. Sample objectives could be how individuals in particular professions can act in socially and environmentally responsible ways, or determining how one’s profession fits within Earth’s economy.
- 1:00-1:10 *Break*
- 1:10-2:20 *Breakout Sessions*
Concurrent STEM area “Idea Generator” Workshops
 Presentation of project examples; interaction between all participants to address community/partner needs, faculty needs for course relevant projects addressing realistic students’ ability; project partnerships development; hosted by room facilitator and visited by plenary speakers.
- 2:20-2:40 *Break*
- 2:40-4:00 *Breakout Sessions (continued)*
- 4:00-4:30 *Plenary Session*
 Highlights from each breakout group; closing remarks, preview of service day and logistics.

Saturday, February 12, 2011

- 8:00-9:00 *Registration and Continental Breakfast*
- 9:00-12:30 *Service for Sustainable Development- a one day kick-off service-learning project*
 STEM Community Building through Building our Community
- 12:30-2:30 *Working lunch*
 Modeling structured discipline-specific reflection circles over lunch.

G. Budget --requested amount and plan to secure additional resources:

The total budget amount requested is \$20,000. The MDC College Training and Development department has committed additional resources in the form of support for speakers and helping get the program approved for faculty professional development credit. The STEM service-learning capacity gained at MDC as a result of the proposed Institute will have an immediate impact on our ability to more effectively work with several of the college’s STEM grant-funded programs such as those supported by Title III and Title V and the most recent addition, a National Science Foundation STEM Innovations Generating Maximum Achievements (SIGMA) program. We foresee possibilities of leveraged resources to further expand engagement. Indeed, the MDC director of resource development has shared her view as to the efficacy of the Institute project as a solid prototype capable of attracting financial support for expansion.

<u>Amount</u>	<u>Description</u>
\$300	Grantee Orientation – includes travel, room and board (\$ per FLCC recommendation)
\$500	Marketing and meeting supplies including handouts, signage etc.
\$250	Resource publications – service-learning/STEM/Education for Sustainable Dev.
\$400	Student Ambassador Stipends – assistance at 4 events @ \$100 per event including partner lunch meeting, main institute, service day and ‘revisited’ follow-up session.
\$550	Partners’ needs assessment/service-learning 101 lunch meeting (\$11 x 50 attendees)
\$1,100	Institute lunch session (\$11 x 100 attendees)
\$600	Institute breaks – Highlighting MDC EEI/CCI Community Rooted Organic Produce Services (CROPS) initiative, service-learning in Hospitality Management Program and nutrition classes (2 breaks x 100 people each = 200 x \$3.00)
\$2,400	Service day breakfast snack/beverages & reflection demonstration lunch (200 people x \$12)
\$550	Service day buses for students at various campuses (3 x \$180 each)
\$550	‘Revisited’ follow-up working lunch (\$11 x 50 attendees)
\$12,000	STEM Faculty Fellow stipends (30 faculty x \$400 each)
\$800	Breakout Room Facilitator honoraria (4 people x \$200 each)
\$ 20,000	Total Budget Request

Most budget items above are self-explanatory or addressed elsewhere in this proposal. Those that warrant a detailed explanation are described more fully below.

Marketing Budget

The grant will support electronic and paper flyers. We will seek additional support for use of t-shirts with an inspirational STEM SL design. Upon registration for the Institute, participants would receive a shirt. With several months lead time, the shirt may be worn and become a conversation starter about STEM SL. The majority of shirts will go to students participating in the post-Institute service day. Students wearing shirts after the Institute will become on-going classroom promoters of SL to faculty.

Faculty Fellow Stipends Budget

Participation in all elements of the proposed program can result in full time faculty earning a distinction we propose to become known as Florida Campus Compact (FLCC) MDC/STEM Service-Learning Fellows.

Stipends will be awarded to faculty only on an internal system of Task Points valued at \$20 per hour. Eligibility for payment of Task Points will be contingent upon full participation in of each component of the Institute, pre and post activities and submission of an approved service-learning project template for a STEM discipline course suitable for publication on the Center for Community Involvement website STEM page and the Earth Ethics Institute website. We also will ensure upload to the Campus Compact website.

Following is an explanation of how faculty stipend payments were calculated.

2 hours	Pre institute activity – Service-Learning 101
8 hours	Institute all day
2 hours	Post Institute service date – most activity will be considered strictly joint service with students and colleagues; amount designated references reflection modeling
5 hours	New project development
3 hours	Post Institute activity – Educating for Sustainable Development Revisited
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20 hours total @ \$20/hr = \$400	for each Fellow who will be contributing to the knowledge base by developing a template

H. & I. Connections/collaboration within host campus and community:

With eight campuses and more than 1700 FT and PT faculty, this Institute will result in an unprecedented opportunity at MDC for STEM disciplines to collaborate in the creation and implementation of STEM SL projects college-wide. The process of preparing this proposal has already begun to strengthen connections and collaboration within our college. The co-hosts, CCI and EEI are working more closely together than ever. Planning has included persons from all eight of the MDC campuses including STEM discipline chairs, representatives from the programs mentioned above and students. Additionally, there has been consultation with potential new community partners through the Environmental Education Providers of Miami-Dade County. We are committed to bringing all stakeholders to the table to work toward ensuring there will be enough, for all, forever. To do otherwise would be antithetical to our understanding of sustainable development.

J. Deliverables

- Hold four 2-hour “Introduction to SL” workshops reaching at least 50 faculty
- Hold one 3-hour “Introduction to SL” workshop for at least 30 STEM community partners
- Organize and implement a one-day SL STEM Institute reaching at least 100 faculty, staff, administrators, and community partners
- Bring in at least one internationally recognized STEM/sustainability keynote speaker
- Implement one “STEM SL Project” involving up to 200 students, faculty, and staff
- Creation of FL/CC – MDC STEM Faculty Service-Learning Fellows program, with 30 faculty completing the requirements and becoming Fellows
- Upload to Campus Compact website at least 30 STEM service-learning ideas/templates

There has been great enthusiasm at the College for each element of this proposal. An important point not mentioned elsewhere is our plan is to include various modes of assessment in the project and to conduct on-going debriefings for lessons learned and upon completion. We ask that Florida Campus Compact fully fund this request to help take our programs to a new level while generating replicable resources that will be shared freely on the web and be useful for a long time.