APPENDIX B

CPATH Monitoring System Crosswalk

1. Basic Information X X Name of Respondent X X Role on Project X X X No-Cost Extension Status X X X List of Faculty and Department participating in project (Name and Department) X X Likert scale questions addressing various barriers and supports to implementation. X X In general, it is easy to get faculty outside the core project team to participate in grant activities. O O O O In general, it is easy to get faculty outside the core project team to participate in grant activities. O O O O O The administrative process for approving urricular change is a significant barrier to the participate in grant activities. O O O O O O It uses the resource for our project. The incentive structure for faculty (including requirements for promotion or tenure and the weight placed on course evaluations) make to course evaluations make to course evaluations make to course evaluations make to course evaluations is maker inclusion in the faculty outside the device time to project. O O O O O O O V Indicating an evaluator is beneficial to our project. O O O	New or Revised	Questions		Staff and Project Participant Characteristics ⁱ	Project Implementation	Project Outputs ^{III}					
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X Core project team to participate in grant activities. O		Likert scale questions addressing various bar	Strongly		No						
X curricular change is a significant barrier to implementing our CPATH project. O		core project team to participate in grant	0	0	0	0	0	0			
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The incentive structure for faculty (including requirements for promotion or tenure and the weight placed on course evaluations) make focusing on pedagogical reform difficult. O <td>v</td> <td>(http://www.cpath-community.msu.edu/) is a</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td></td> <td>V</td> <td></td>	v	(http://www.cpath-community.msu.edu/) is a	0	0	0	0	0	0		V	
program goals make it easier for faculty to devote time to project activities. O	Λ	requirements for promotion or tenure and the weight placed on course evaluations) make	0	0	0	0	0	0		Λ	
hardware, software, or technical support) is an obstacle in collaborating with faculty outside traditional computing disciplines. 0		program goals make it easier for faculty to	0	0	0	0	0	0			
2. Community Building Activities		hardware, software, or technical support) is an obstacle in collaborating with faculty outside	0	0	0	0	0	0			
		Having an evaluator is beneficial to our project.	0	0	0	0	0	0			
		2. Community Building Activities	1 1								
X Goals of Community Building Activities: X	X									Х	

2011 OMB Package, Appendix B: CPATH Crosswalk

New or Revised		ommon Collection Categories		Staff and Project Participant Characteristics	Project Implementation	Project Outputs
	Questions					
	What have been the major goals of your communit that apply: To generate ideas and resources To disseminate, share or scale ideas and reso To understand workforce needs To provide new opportunities to increase stud Other goal(s) not listed above None of the goals above are applicable to ou	ources dent engagement r project				
X	Questions addressing the types of organizations invo- under the CPATH award. Respondents will list indiv- the institution, in K-12 schools, in industry, and any communicating. Each question will ask for the numb departments/schools/organizations those people repre- Example (there is one box for each type of communi- Within your institution, how many people have bee building activities during the life of your CPATH pro- Please enter a number. If you are unsure of the ex- from that group has been involved please enter a re-	iduals participating from wi other groups with whom the er of people "actively involv esent. ty participant): en actively involved in your oject? act number, please give yo	thin the institution, outside project staff may be ved" and the number of			Х
	Higher Education Faculty and Administrators at your institution within traditional computing disciplines Higher Education Faculty and Administrators at your institution outside traditional computing disciplines	Number of people actively involved in the community	Number of departments represented by those individuals	5		

New or Revised	Questions		Staff and Project Participant Characteristics	Project Implementation	Project Outputs					
	Respondents who identify asked a series of follow-uj What grade levels do the Elementary School High School What disciplines did the I Please choose all that ap English Social Studies Math Science Technology Other:	o questions t K-12 teach I K-12 teache	o better und	lerstand K-12 particip ministrators represer	ation patterr	15:				
Х	Please indicate your leve choose the appropriate re	esponse for Strongly			of the follow Disagree	Strongly	ents: Please		Х	Х
	Our partnership with K-12 schools has, or is likely, to lead to instructional changes in participating	Agree	0	0	0	Disagree	0			
	educators' classrooms.									

New or Revised	Common Collection Categories Questions	Staff and Project Participant Characteristics	Project Implementation	Project Outputs
x	 3. Areas of Project Focus - Curricular Change This section is the first in a series of questions in which if the PI answers that the area is an area of focus, they will be directed to additional questions about that type of activity. As part of your CPATH project in the fall of 2009, summer of 2010 and summer of 2010, was curricular change an area of focus? Please choose only one of the following: OYes No 		Х	
X	In which of the following CPATH project activities have you been involved at your institution? Please choose all that apply: New Course Creation Revision to Existing Courses or Development of Course Modules Development of a new program, course of study, or curricular pathway (thread or minor) New seminar or workshop series for students outside of the existing course structure Independent research projects Internship Program Other activity not listed Each box, when checked, generates additional follow-up questions related to that activity.		Х	

New or Revised	Common Collection Categories Questions	Staff and Project Participant Characteristics	Project Implementation	Project Outputs
	Follow up Questions for New Course Creation/Revision to Existing Courses: Have you created new courses within traditionally computing-related disciplines (i.e., computer science,			
	computer engineering), outside traditionally computing-related disciplines, or both?			
	Please choose all that apply:			
	 within traditionally computing-related disciplines (i.e., computer science, computer engineering)? outside traditionally computing-related disciplines? 			
V	Please list any new courses within traditionally computing-related disciplines at your institution. If there is no enrollment yet, please enter zero (0). If a course is cross-listed, please include all departments and numbers on the same line.	V	V	v
X	Department Course Number Cumulative Enrollment in these courses during fall 2009, summer 2010, summer 2010 terms	X	Х	Х
	3			
	4 5 5			
	These questions are followed by questions asking for the number of these students broken down by gender, race/ethnicity, and disability status. The follow-up questions for revision are similar but include a few more multiple choice questions about whether or not they are targeting their modules to other institutions.			
X	The remaining curricular change activity boxes, when checked, direct respondents to questions asking for short, text-box descriptions of the activity and the number of students involved in the activity.		Х	

New or Revised	Common Collection Categories Questions	Staff and Project Participant Characteristics	Project Implementation	Project Outputs
X	Accreditation of new courses, revised courses, or new courses of study: Did you pursue any type of accreditation for your curricular revisions or new programs? Please choose only one of the following: Yes No No Not applicable If yes, please describe the accreditation process. (Text Box)		X	
X	 4. Areas of Project Focus – Disseminating Computing Concepts As part of your CPATH project in the fall of 2009, summer of 2010 and summer of 2010, has disseminating computing concepts within your discipline or across disciplines been an area of focus? *Please choose only one of the following: Yes No 		Х	

	Common	.		
sed	Collection	jec t ics	ion	uts
New or Revised	Categories Questions	Staff and Project Participant Characteristics	Project Implementation	Project Outputs
	Follow-up Questions for those listing "disseminating computing concepts" as an area of focus:			
	 What are the three most prominent concepts being disseminated? 1. 2. 3. Where have you primarily attempted to disseminate computing concepts? Please choose all that apply: 			
X	 Within traditional computing disciplines <i>within</i> my institution Outside traditional computing disciplines <i>within</i> my institution Within traditional computing disciplines <i>in other institutions</i> of higher education Outside traditional computing disciplines <i>in other institutions</i> of higher education K-12 schools 		Х	Х
	 What methods are you using to disseminate computing concepts? Please choose all that apply: Workshops Conferences List-servs Web Pages or other web-based resources Publications Courses or course modules Other: 			
X	 5. Areas of Project Focus – Workforce Skills As part of your CPATH project in the fall of 2009, summer of 2010 and summer of 2010, was defining or identifying skills needed in today's workplace an area of focus? *Please choose only one of the following: OYes ONo 		X	

New or Revised	Common Collection Categories Questions	Staff and Project Participant Characteristics	Project Implementation	Project Outputs
	Follow-up Questions for those listing "workforce skills" as an area of focus:			
Х	What are the three most relevant skills you have identified that were not already part of your academic program? 1. 2. 3. Have your findings led to changes in courses? Please choose only one of the following: Yes No Have your findings led to changes in pedagogical methods? Please choose only one of the following: Yes No		Х	Х
X	 6. Areas of Project Focus – Pedagogical Methods As part of your CPATH project in fall 2009, summer 2010, and summer 2010, was the implementation of new pedagogical methods an area of focus? *Please choose only one of the following: OYes ONo 		Х	

New or Revised	Common Collection Categories Questions	Staff and Project Participant Characteristics	Project Implementation	Project Outputs
	Follow-up Questions for those listing "pedagogical methods" as an area of focus: Please describe the pedagogical methods you are attempting to implement as part of your CPATH project. (Text Box) Please enter the number of faculty and graduate students implementing modified pedagogies within your institution as a result of your CPATH project.			
	FacultyGraduate StudentsWithin traditional computing disciplines			
X	FacultyFacultyGraduate StudentsInstitution sWithin traditional computing disciplinesOutside traditional computing disciplines	X	Х	
	ИВ Package, Appendix B: CPATH Crosswalk			

-	Questions Perception of project/program outo	comes:	Comm C	ion ollection Categories				Staff and Project Participant Characteristics	X Project Implementation	2
	Please indicate your level of agre		sagreeme	nt with the follo	wing sta	tements:				
		Strongly Agree	Agree	No Opinion/Neutra I	Disagre e	Strongly Disagree	Not Applicable			
	Our CPATH project has led to the incorporation of computational thinking into courses in departments <i>outside</i> traditional computing.	0	0	0	0	0	0			
	Our CPATH project has created self- sustaining, multi-sector partnerships around computing education.	0	0	0	0	0	0			
	Our CPATH project is a promising model that other institutions could adopt.	0	0	0	0	0	0			
	The CPATH program has succeeded in disseminating improved curriculum and instructional practices to the higher education community.	0	0	0	0	0	0			
	The CPATH program has helped to build national consensus regarding the knowledge and competencies students need to enter the workforce.	0	0	0	0	0	0			
	The CPATH program has had a significant influence on the national conversation surrounding undergraduate computing education.	0	0	0	0	0	0			

New or Revised	Common Collection Categories Questions	Staff and Project Participant Characteristics	Characteristics	Project Outputs
X	Closing questions: What is the most significant institutional challenge you have encountered in the implementation of your CPATH project? (Text Box) Was there any single institutional factor (e.g., administrative support, strong industry partner in the community, etc.) you felt made your CPATH project more successful? (Text Box) If you have any additional comments you would like to make about your CPATH project, or about the CPATH program in general, please add them here. (Text Box)		X	

ⁱ Elements of these characteristics include: Name, address, date of birth, gender, ethnicity, race, disability status, class, major, grade point average, yearly fellowship or stipend amount, or project role.

[#] Elements of these characteristics include: Sources and amount of funds, fellowships, scholarships, traineeships, partnerships, training, research methods.

^{III} Elements of these characteristics include: research findings, publications, presentations, degrees granted, educational materials.