Math and Science Partnership Program

Annual Institution of Higher Education (IHE) Survey for Comprehensive and Targeted MSPs

Sponsored by the
National Science Foundation

Conducted by
Westat
1650 Research Boulevard
Rockville, Maryland 20850

Annual Institution of Higher Education (IHE) Survey
For the [INSERT SCHOOL YEAR] School Year

The National Science Foundation (NSF) is conducting a survey of its Math and Science Partnership (MSP) projects. The purpose is to assess the overall implementation of the MSP program and to monitor the progress of individual MSP grants. This survey has been designed to collect information about each Institution of Higher Education (IHE) that is serving as a lead, core or supporting partner in the Math and Science Partnership (MSP) Program.

INSTRUCTIONS FOR COMPLETING THE SURVEY

It is recommended that you review the **Primer** (which can be accessed electronically by clicking on "Help" in the menu on the top of the page) before beginning the survey. The Primer provides general instructions and navigation information.

As you are completing the survey, please click the Save & Continue button after you respond to each item. Once an item or section is saved, you may use the menu below or the Question Guide to return to an item and revise your response. If you exit the system without saving, you will lose any unsaved data.

To print and view completed sections of this survey, click on "Reports" in the menu on the top of the page.

Please complete <u>each</u> of the following sections as they pertain to the following Institution of Higher Education (IHE) by November XX, 200X: [INSERT NAME OF IHE]

Contact Information	IHE Participants in the MSP	MSP-supported Pre-service Courses
Information about MSP-supported materials and strategies for undergraduate students		
Report Status: **Not Complete**		

If you have any questions about how to respond to a particular item you should contact your principal investigator. Questions about how to navigate the system should be referred to:

Molly Hershey-Arista
1-800-937-8281, ext. 4908
mspmis@westat.com
Westat
1550 Research Boulevard
Rockville, Maryland 20850

Contact Information

This section obtains information on the individual who should be contacted for any follow-up questions about this submission.

1. **Provide the following contact information for the individual primarily responsible for completing this survey:**

    Name: _____

    Title: _____

    Street address: _____

    City: _____

    State: _____

    Zip code: _____

    Phone number: _____

    Fax number: _____

    E-mail: _____

IHE Participants in the MSP

This section is designed to obtain information on the number of individuals at *your* IHE that participated in your MSP during the [INSERT SCHOOL YEAR] school year.

1. **Indicate the number of IHE individuals who:**

   ▪ **Were involved in the development and/or delivery of MSP activities during the [INSERT SCHOOL YEAR] school year** *(e.g., IHE education faculty who revised a pre-service course to align with state standards, IHE STEM faculty who presented at a professional development seminar).*

   ▪ **Were recipients of MSP activities during the [INSERT SCHOOL YEAR] school year** *(e.g., IHE STEM faculty who received professional development, pre-service students who enrolled in/completed an MSP-revised pre-service course)*

   NOTE—individuals who developed/delivered MSP activities and were also recipients of MSP activities should be counted under both columns. However, no individual should be counted more than once in each column.

   Enter an "X" in all cells where information is not currently available.

	Number of IHE individuals involved in the development and/or delivery of MSP activities	**Number of IHE individuals who were recipients of MSP activities**
IHE STEM faculty *(tenure track)*		
IHE STEM faculty *(non-tenure track)*		
IHE education faculty *(tenure track)*		
IHE education faculty *(non-tenure track)*		
IHE administrators with or without instructional/research responsibilities (e.g., deans, department chairs)		
K-12 teachers in residence		
MSP liaisons/coordinators		
STEM undergraduate students		
Pre-service undergraduate and alternative certification students		
Graduate students (including doctoral candidates)		
Postdoctoral students		
Other (specify):		

MSP-supported Pre-service Courses

This section obtains information about <u>each</u> MSP-supported pre-service undergraduate or graduate course/seminar that was developed or offered at your IHE during the [INSERT SCHOOL YEAR] school year. For the purpose of this collection, MSP-supported refers to the following types of contributions:

- MSP funds were used to develop a **new** pre-service course/seminar

- MSP funds were used to **modify** or **enhance** a pre-existing pre-service course/seminar

To add an MSP-supported course, click on the *Add Course* button below.

To provide information on a course listed below, click on the link in the matrix (in the column titled *Name of Course/Seminar*)

Name of Course/Seminar	Number of Course/Seminar	Department	Information Complete?
(from Item 1)	(from item 2)	(from item 3)	(yes or no)

1. **Provide the name of the MSP-supported undergraduate or graduate course/seminar:[1]**

2. **Provide the number (e.g., MATH210) of the MSP-supported undergraduate or graduate course/seminar:**

3. **Provide the department for the MSP-supported undergraduate or graduate course/seminar:**

4. **What was the nature of MSP's contribution to this course during the [INSERT SCHOOL YEAR] school year?** *(Check <u>all</u> that apply for the* **[INSERT SCHOOL YEAR]** *school year)*

    ❑ A new course/seminar was developed using MSP funds

    ❑ A pre-existing course/seminar was modified or enhanced using MSP funds

    ❑ Other *(specify):* _____

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[1] Questions 1, 2, 3, 4, 5, 6, and 7 are only asked the first time a course is entered. These questions are not repeated in subsequent years.

5. What subject matter does this course cover? *(check <u>all</u> that apply)*

- ❒ Astronomy
- ❒ Atmospheric Sciences
- ❒ Biological Sciences
- ❒ Chemistry
- ❒ Computer Science
- ❒ Education *(specify area of education)* _____
- ❒ Engineering
- ❒ Geosciences
- ❒ Mathematical Sciences
- ❒ Ocean Sciences
- ❒ Physics
- ❒ Other (*specify):* _____

6. What was the level for this course? *(check <u>one</u> response)*

- ❑ Undergraduate
- ❑ Graduate

7. Provide a brief description (i.e., 250 words or less) of the purpose and scope/content of this course:

8. Were any students enrolled in this course during the [INSERT SCHOOL YEAR] school year? *(check <u>one</u> response)*

- ❒ Yes *(complete Q9)*
- ❒ No, course still under development *(end of section)*
- ❒ No, course was fully developed, but not offered during the **[INSERT SCHOOL YEAR]** school year *(end of section)*
- ❒ No, course was eliminated[2]
- ❒ No, other (specify): _____ *(end of section)*

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[2] Question 8, option d ("No, course was eliminated") is only asked if the course was listed in a previous year.

9. **How many students took this course/seminar during the [INSERT SCHOOL YEAR] school year?** *(Provide this information for all students who were enrolled in all sections of this course during the [INSERT SCHOOL YEAR] school year.)*

   Enter an "X" in all cells where information is not currently available.

		Total number of students enrolled in all sections of the course during the [INSERT SCHOOL YEAR] school year
Total		
Gender		
Male		
Female		
Not Reported		
Race/Ethnicity		
Hispanic or Latino	Race Not Reported[3]	
	American Indian or Alaska Native	
	Asian	
	Black or African American	
	Native Hawaiian or Other Pacific Islander	
	White	
	More than One Race Reported	
	SUB-TOTAL: Hispanic or Latino	*(auto total)*
NOT Hispanic or Latino OR Ethnicity NOT Reported[4]	American Indian or Alaska Native	
	Asian	
	Black or African American	
	Native Hawaiian or Other Pacific Islander	
	White	
	More than One Race Reported	
	SUB-TOTAL: Non-Hispanic or Latino	*(auto total)*
Neither Race nor Ethnicity Reported[5]		

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[3] Use "*Race Not Reported*" to provide information about Hispanic or Latino students for whom race is not reported or unknown.

[4] Use *"NOT Hispanic or Latino OR Ethnicity NOT Reported"* to provide race information for those students (1) that are not Hispanic or Latino, or (2) for whom ethnicity is not reported or unknown.

[5] Use *"Neither Race nor Ethnicity Reported"* for those students for whom both race and ethnicity are unknown.

Information about MSP-Supported Materials and Strategies
for Undergraduate Students

This section obtains information about the MSP-supported materials and strategies that your IHE targeted to pre-service undergraduate students during the [INSERT SCHOOL YEAR] school year.

1. **Which of the following are true about your IHE's use of your MSP project's instructional _materials_ for undergraduate courses (including teacher preparation) during the [INSERT SCHOOL YEAR]?** (Check <u>all</u> that apply)

   ❒ We developed or revised instructional materials for our project

   ❒ We adapted or adopted instructional materials created by others

   ❒ We used our project's instructional materials with students or faculty

   ❒ We did <u>not</u> develop, adapt, or use any MSP-supported instructional materials for undergraduate courses

2. **(IF ANY OF THE RESPONSE OPTIONS IN 1 ARE CHECKED) What types of MSP-supported _materials_ did your project develop, adapt, adopt, or use related to undergraduate courses (including teacher preparation)?** (Check <u>all</u> that apply)

☐ Demonstrations	☐ Software tools
☐ Educational Games	☐ Student handbooks or workbooks
☐ Field activity guides or manuals	☐ Tutorials
☐ Instructor materials for adapting project activities or procedures to new settings	☐ Visualizations
	☐ Web-based collaborative tools
	☐ Web-enhanced tools
☐ Instructor guides or manuals to guide student activities	☐ Workshop materials for pre-service teachers
☐ Laboratory guides or manuals	☐ Workshop materials in-service teachers
☐ Lesson plans	
☐ Practice problems or exercises for students	☐ Workshop materials pre-service teachers
☐ Simulations	☐ Other instructional materials (please specify)

3. **Which of the following are true about your IHE's use of your MSP projects' instructional _strategies_ for undergraduate courses (including teacher preparation) during the [INSERT SCHOOL YEAR]?** (Check <u>all</u> that apply)

   ❐ We developed or revised instructional strategies for our project

   ❐ We adapted or adopted instructional strategies created by others

   ❐ We used our project's instructional strategies with students or faculty

   ❐ We did <u>not</u> develop, adapt, or use any MSP-supported instructional strategies for undergraduate courses

4. **(IF ANY OF THE RESPONSE OPTIONS IN 1 ARE CHECKED) What types of MSP-supported _strategies_ did your project develop, adapt, adopt, or use related to undergraduate courses (including teacher preparation)?** (Check <u>all</u> that apply)

   ❐ Case-based learning strategies
   ❐ Cooperative or collaborative learning strategies
   ❐ Design activities
   ❐ Field studies
   ❐ Hands-on activities (e.g., building or testing objects)
   ❐ Integrated courses
   ❐ Intelligent tutoring systems
   ❐ Laboratory experiences
   ❐ Learning communities (e.g., student cohorts)
   ❐ Lectures
   ❐ Linked courses
   ❐ Real time modification strategies based on student performance (e.g., Just-in-Time Teaching)
   ❐ Peer instruction strategies (e.g., peer tutoring, peer mentoring)
   ❐ Personal response systems (e.g., "clickers")
   ❐ Problem-based learning strategies
   ❐ Quantitative computational approaches
   ❐ Strategies involving real-world examples, problems, or contexts
   ❐ Strategies involving remote laboratories
   ❐ Strategies involving formal research experience in classroom laboratories
   ❐ Service learning strategies
   ❐ Studio-based strategies
   ❐ Web-enabled homework submission and grading systems
   ❐ Web-enabled instruction strategies
   ❐ Web-enabled repositories
   ❐ Web-enabled student collaboration / social networking tools
   ❐ Other instructional strategies (please specify):

5. How many undergraduate students were exposed to your MSP project's instructional materials or strategies during the **[INSERT SCHOOL YEAR]?**

	Number for the [INSERT SCHOOL YEAR]
Number of undergraduate students that used your MSP project's instructional materials	
Number of undergraduate students that were taught using your MSP project's instructional strategies	
Number of undergraduate students' that were exposed to your MSP project's instructional materials/strategies whose knowledge, skills, or attitudes were assessed	