

## **Expanding STEM Talent Through Upward Transfer**

### **Baseline Survey (Fall 2014)**

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*We are seeking your input in regard to your educational experiences, goals, and plans. We are particularly curious to learn about your experiences within science, technology, engineering, and mathematics (STEM) programs or courses. We are also hoping to know your background as a unique individual and some of the beliefs you hold as a college student. All this information will help us better assist STEM students like yourself to make their college careers successful.*

**1. What is your primary goal in attending this college? Please choose only one.**

- Transfer to a four-year college or university
- Earning a degree, a diploma, or a certificate to gain entry or reentry into the workforce
- Taking a few courses to gain entry or reentry into the workforce
- Enhance performance in current employment position
- Taking courses for self-improvement—not seeking a credential or for employment-related purposes

**2. What is the highest credential you plan to obtain from UW Colleges?**

- None
- Certificate
- Associate Degree

**3. What is the highest credential you plan to obtain from any postsecondary institution?**

- None
- Certificate
- Technical Diploma
- Associate Degree
- Bachelor's
- Master's
- Doctoral
- Professional degree, for example: Doctor of Medicine, Juris Doctor, Doctor of Pharmacy, etc.

**4. How likely are you to transfer to a four-year college or university?**

- | Not at all            | A little              | Somewhat              | Very                  | Extremely             |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| <input type="radio"/> |

**5. Are you currently enrolled at this college as a full-time or part-time student?**

- Full-time
- Part-time

**6. How many years of high school coursework in math did you complete?**

- Did not take
- 0.5 year
- More than 0.5 year to less than 2 years
- 2 years to less than 3 years
- 3 years to less than 4 years
- 4 years or more

**7. Which one of the following is the highest level of math you completed during high school?**

- Algebra or Geometry
- Trigonometry or Algebra II
- Pre-Calculus
- Calculus
- I completed none of these

**8. How many years of high school coursework in science did you complete?**

- Did not take
- 0.5 year
- More than 0.5 year to less than 2 years
- 2 years to less than 3 years
- 3 years to less than 4 years
- 4 years or more

**9. Did you complete the following science courses during high school?**

	Yes	No
a. Life Sciences	<input type="radio"/>	<input type="radio"/>
b. Biology	<input type="radio"/>	<input type="radio"/>
c. Chemistry	<input type="radio"/>	<input type="radio"/>
d. Physics	<input type="radio"/>	<input type="radio"/>

**10. How important will it be for you to ...**

	Not at all	A little	Somewhat	Very	Extremely
a. ...know mathematics to succeed at college?	<input type="radio"/>				
b. ...know science subjects to succeed at college?	<input type="radio"/>				

**11. How much...**

	Not at all	A little	Some	Quite a bit	A great deal
a. ...will you need math for your future career?	<input type="radio"/>				
b. ...do you enjoy solving math problems?	<input type="radio"/>				
c. ...do you enjoy applying math in your daily life?	<input type="radio"/>				
d. ...will you need science for your future career?	<input type="radio"/>				
e. ...do you enjoy solving science problems?	<input type="radio"/>				
f. ...do you enjoy reading science articles, magazines, or news?	<input type="radio"/>				

**12. How likely are you to...**

	Not at all	A little	Somewhat	Very	Extremely
a. ...do well in required math courses you are taking in college?	<input type="radio"/>				
b. ...do well in required science courses you are taking in college?	<input type="radio"/>				

**13. Participants in this study either have chosen a program of study or are taking one or more courses this fall in one of the following four major areas of study:**

- 1) Biological, agricultural, or environmental life sciences
- 2) Computer or mathematical sciences
- 3) Engineering or engineering technologies
- 4) Physical sciences including chemistry, physics, astronomy, etc.

**Have you chosen a program of study in one of the above mentioned four areas?**

- Yes  
 No → **Go to question 15**

**14. Which one of these four areas of study have you chosen as your program of study? If you have chosen more than one program of study, please only check the one that most closely represents your primary interest.**

- Biological, agricultural, or environmental life sciences
- Computer or mathematical sciences
- Engineering or engineering technologies
- Physical sciences including chemistry, physics, astronomy, etc.

**Go to question 16 →**

**15. If you have not chosen a program yet, in which one of the following areas are you taking one or more classes? If the classes you are taking this term are in more than one area among the following, please only check the one that most closely represents your primary interest.**

- Biological, agricultural, or environmental life sciences
- Computer or mathematical sciences
- Engineering or engineering technologies
- Physical sciences including chemistry, physics, astronomy, etc.

**16. For the next 5 questions, please reflect on your experiences within your chosen program, or the courses you are taking in one of these four areas of study that aligns with your primary interest:**

- 1) Biological, agricultural, or environmental life sciences**
- 2) Computer or mathematical sciences**
- 3) Engineering or engineering technologies**
- 4) Physical sciences including chemistry, physics, astronomy, etc.**

**How often do courses require you to...**

	Never	Rarely	Sometimes	Often	Very often
<b>a.</b> ...apply what you have learned to real-life situations?	<input type="radio"/>				
<b>b.</b> ...present what you have learned to instructors and peers?	<input type="radio"/>				
<b>c.</b> ...explore key concepts, data, beliefs, or values within small groups?	<input type="radio"/>				
<b>d.</b> ...think about instructor's question on your own first, and then discuss the question with peers before the instructor explains the answer to the class?	<input type="radio"/>				

**17. How often do courses require you to...**

	Never	Rarely	Sometimes	Often	Very often
<b>a.</b> ...identify what you already know, what you need to know, and how and where to access new information in order to solve a given problem?	<input type="radio"/>				
<b>b.</b> ...consider, compare, and generate multiple potential solutions to a given problem?	<input type="radio"/>				
<b>c.</b> ...integrate skills and knowledge learned to solve problems?	<input type="radio"/>				
<b>d.</b> ...work in groups to research necessary background material in order to solve complex, realistic problems?	<input type="radio"/>				

**18. How often do courses require you to...**

	Never	Rarely	Sometimes	Often	Very often
a. ...draw diagrams to visually show the connection between a new concept and other concepts that you already learned?	<input type="radio"/>				
b. ...gather information from a variety of sources?	<input type="radio"/>				
c. ...draw conclusions and make decisions given a detailed description of a situation?	<input type="radio"/>				
d. ...evaluate student peers' written work?	<input type="radio"/>				

**19. How often do courses require you to...**

	Never	Rarely	Sometimes	Often	Very often
a. ...work on real-world problems?	<input type="radio"/>				
b. ...work on your own projects or experiments?	<input type="radio"/>				
c. ...choose your own topics or projects to investigate?	<input type="radio"/>				

**20. How often do courses require you to...**

	Never	Rarely	Sometimes	Often	Very often
a. ...learn what scientists, technicians, engineers, mathematicians or other STEM professionals do in real life?	<input type="radio"/>				
b. ...interact with scientists, technicians, engineers, mathematicians, or other STEM professionals?	<input type="radio"/>				

**21. How often do you ...**

	Never	Rarely	Sometimes	Often	Very often
a. ...work with an instructor or a researcher at your college on a research project?	<input type="radio"/>				
b. ...work with an instructor or a researcher from a four-year college or university on a research project?	<input type="radio"/>				
c. ...participate in a learning community, which are classes that are linked or clustered, often around an interdisciplinary theme, and enroll a common group of students?	<input type="radio"/>				
d. ...participate in a community-based project as part of your course requirements, where community organizations like schools, neighborhood organizations, and civic organizations, partner with your college to solve real-world problems?	<input type="radio"/>				

**22. How often do you ...**

	Never	Rarely	Sometimes	Often	Very often
a. ...come to class on time?	<input type="radio"/>				
b. ...pay attention during class?	<input type="radio"/>				
c. ...take notes during class?	<input type="radio"/>				
d. ...complete course assignments on time?	<input type="radio"/>				
e. ...review course materials after class?	<input type="radio"/>				

**23. How often do you interact with the following individuals for academic purposes?**

	Never	Rarely	Sometimes	Often	Very often
a. Instructors	<input type="radio"/>				
b. Student peers	<input type="radio"/>				
c. Academic advisors	<input type="radio"/>				

**24. How confident are you that you...**

	Not at all	A little	Somewhat	Very	Extremely
a. ...have the ability to master the material taught in <u>math</u> ?	<input type="radio"/>				
b. ...can do well on <u>math</u> exams?	<input type="radio"/>				
c. ...can complete <u>math</u> assignments successfully?	<input type="radio"/>				
d. ...can receive a good grade in college <u>math</u> courses?	<input type="radio"/>				
e. ...can perform well in course activities in <u>math</u> classes?	<input type="radio"/>				

**25. How confident are you that you...**

	Not at all	A little	Somewhat	Very	Extremely
a. ...have the ability to master the material taught in <u>science</u> ?	<input type="radio"/>				
b. ...can do well on <u>science</u> exams?	<input type="radio"/>				
c. ...can complete <u>science</u> assignments successfully?	<input type="radio"/>				
d. ...can receive a good grade in college <u>science</u> courses?	<input type="radio"/>				
e. ...can perform well in course activities in <u>science</u> classes?	<input type="radio"/>				

**26. How much financial support do you have to attend this college?**

	None	A little	Some	A lot	A great deal
	<input type="radio"/>				

**27. How supportive of your school work are your...**

	Not at all	A little	Somewhat	Very	Extremely
a. ...family members?	<input type="radio"/>				
b. ...friends?	<input type="radio"/>				

*The following questions are about your knowledge and opinions regarding transfer to a four-year college. At this point in time, transfer may or may not be part of your plan. However, your thoughts on these questions are of great value to this study, as they will help your college understand your educational experiences and plans, and use this knowledge to better serve you and other students.*

**28. The next questions are about the process of transferring to a four-year college.**

	None	A little	Some	A lot	A great deal
a. How <u>much</u> information do you have about how to transfer to a four-year college or university?	<input type="radio"/>				
b. How <u>much</u> financial support do you have to transfer to a four-year college or university?	<input type="radio"/>				
c. How <u>much</u> support do you have from your family for transfer to a four-year college or university?	<input type="radio"/>				
d. How <u>much</u> support do you have from friends and peers for transfer to a four-year college or university?	<input type="radio"/>				

29. How **confident** are you about your ability to handle the process and requirements for transferring to a four-year college or university?

Not at all	A little	Somewhat	Very	Extremely
<input type="radio"/>				

30. How **likely** are you to transfer to a four-year college or university to study in a program within science, technology, engineering, and mathematics (STEM) fields of study?

Not at all	A little	Somewhat	Very	Extremely
<input type="radio"/>				

31. How **often** do you use each of the following services provided by your college or campus?

	Never	Rarely	Sometimes	Often	Very often
a. Advising for future transfer to a four-year college, either walk-in or online	<input type="radio"/>				
b. Published transfer information or guidelines	<input type="radio"/>				
c. Transfer credit assistance, which helps you in determining how your course credits transfer to other colleges and universities	<input type="radio"/>				

32. How **important** to you are each of the following services provided by your college or campus?

	Not at all	A little	Somewhat	Very	Extremely
a. Advising for future transfer to a four-year college, either walk-in or online	<input type="radio"/>				
b. Published transfer information or guidelines	<input type="radio"/>				
c. Transfer credit assistance, which helps you in determining how your course credits transfer to other colleges and universities	<input type="radio"/>				

**33. How satisfied are you with the following services provided by your college or campus?**

	Not at all	A little	Somewhat	Very	Extremely	Not applicable, I have never used this service
a. Advising for future transfer to a four-year college, either walk-in or online	<input type="radio"/>					
b. Published transfer information or guidelines	<input type="radio"/>					
c. Transfer credit assistance, which helps you in determining how your course credits transfer to other colleges and universities	<input type="radio"/>					

**34. How often do you contact each of the following individuals to discuss matters related to transfer to a four-year college or university?**

	Never	Rarely	Sometimes	Often	Very often
a. Instructors	<input type="radio"/>				
b. Student peers	<input type="radio"/>				
c. Academic advisors or counselors	<input type="radio"/>				
d. Family members or friends	<input type="radio"/>				

**35. How well do you understand which courses at your college are transferrable to a four-year college or university?**

Not at all	A little	Somewhat	Very	Extremely
<input type="radio"/>				

**36. At this point, do you intend to transfer from your current college to a four-year college or university?**

- Yes  
 No → **Go to question 45**

**37. In which major program at a four-year college or university do you intend to study?**

- Biological, agricultural, or environmental life sciences
- Computer or mathematical sciences
- Engineering or engineering technologies
- Physical sciences including chemistry, physics, astronomy, etc.
- Other major program of study

**38. When do you plan to transfer to a four-year college or university?**

- Right after the first semester
- Right after the first year
- After 1.5 years but less than 2 years
- After 2 years

**39. Have you met with a transfer advisor from a four-year college or university?**

- Yes
- No, but I am planning to
- No, and I do not plan to

**40. Have you visited the campus of a four-year college or university you wish to transfer to?**

- Yes
- No, but I am planning to
- No, and I do not plan to

**41. Have you met faculty at a four-year college or university you wish to transfer to?**

- Yes
- No, but I am planning to
- No, and I do not plan to

**42. Have you taken any courses at a four-year college or university you wish to transfer to?**

- Yes
- No, but I am planning to
- No, and I do not plan to

**43. Have you talked about transferring with any students enrolled at your college who also wish to transfer to a four-year college or university?**

- Yes
- No, but I am planning to
- No, and I do not plan to

**44. Have you talked to any students enrolled at the four-year college or university you wish to transfer to about their experiences?**

- Yes
- No, but I am planning to
- No, and I do not plan to

*Now we would like to know a bit more about you as an individual. In order to make college experiences worthwhile and contributive to your future goals, we need to understand better your life circumstances that may influence your college experiences. Please rest assured that the information you share with us will be kept completely confidential, and will only be used to help your college better serve you and others like you.*

**45. What is your gender?**

- Male
- Female
- Other

**46. Do you consider yourself to be Hispanic or Latino?**

- Yes
- No

**47. Which of the following categories best describes your race? Please check all that apply.**

- American Indian or Alaskan Native
- Asian
- Black or African American
- Native Hawaiian or other Pacific Islander
- White
- Other, please specify:

**48. Which of the following categories best describes your age?**

- 18 to 19
- 20 to 23
- 24 to 29
- 30 and older

**49. Which of the following best describes the primary language spoken in your household while you were growing up?**

- English only
- Spanish only
- An equal mix of English and Spanish
- An equal mix of English and another language other than Spanish
- A language other than English or Spanish

**50. Are you considered financially dependent on your parents or legal guardians?**

- Yes
- No

**51. Considering income from all sources, what was your family's total income in 2013? Family income refers to your parents' income if you are still considered their dependent. Otherwise, this refers to your own income and that of your spouse, if applicable.**

- Less than \$30,000
- \$30,000 to \$59,999
- \$60,000 to \$89,999
- \$90,000 to \$119,999
- \$120,000 to \$149,999
- \$150,000 and above

**52. What is your current employment status?**

- Employed full-time, including multiple part-time jobs that add up to full-time
- Employed part-time
- Not employed → **Go to question 54**

**53. On average, how many hours a week are you working for pay this school term?**

Hours

**54. What is your current marital status?**

- Single and never married
- Married
- Separated
- Divorced
- Widowed

**55. Are you a single parent with at least one dependent child?**

- Yes
- No

**56. What is the highest level of education your father or male guardian completed?**

- Did not finish high school
- High school graduate or equivalent
- Postsecondary school other than college
- Some college
- Associate degree
- Bachelor's degree
- Master's degree
- Doctoral degree
- Professional degree
- I don't know

**57. What is the highest level of education your mother or female guardian completed?**

- Did not finish high school
- High school graduate or equivalent
- Postsecondary school other than college
- Some college
- Associate degree
- Bachelor's degree
- Master's degree
- Doctoral degree
- Professional degree
- I don't know

**58. Please list any additional comments you have regarding your learning experiences in STEM programs or courses, transfer advising, services, or programs, or other final thoughts you have about your courses or program of study.**

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