

**Questionnaire for
Duke College Major and Expectations Survey (DuCMES)
Phase 1
May 2009**

Peter Arcidiacono

V. Joseph Hotz

Songman Kang

Department of Economics

Duke University

CONSENT FORM FOR RESEARCH

Thank you for considering participation in this study. This page will give you more information about the study. If you have more questions later, contact Songman Kang (sk92@duke.edu, 919-830-6042). You must be at least 18 years old to be in this research project.

Description of the project: This study examines how college students choose their majors based on their expectations of educational outcomes, for example, future income.

What will be done: A set of questions will be provided to you. The questions ask 1) your demographic information including your name, email address and Duke unique ID, 2) your preference of majors offered at Duke, 3) what your expectations of educational outcomes are, and 4) how your answers are affected when your expectations change. Answering the questionnaire should take less than 30 minutes.

Benefits of this study: There will be no direct benefit to you for taking part in this study. The researcher may learn more about how individuals' decision making processes are affected by their expectations of future outcomes.

Compensation: To receive payment for your participation in this study, you will be asked to provide your Duke unique ID and email address. You will be paid 20 dollars in cash as a compensation for participating in this survey. After completing the survey, please contact me at sk92@duke.edu or stop by Social Science Building, Room 308G to receive your compensation.

Confidentiality: Your participation in this study is confidential. All records will be stored in secure server for five years. Only the principal investigators of this project and their research assistants will have an access to the data you provide.

The decision to participate is your choice: You may decide not to take part in the study or you may choose not to answer a question. Skipping a question effectively ends your participation in this survey. You may exit the survey at any time. If you wish to quit, simply log off. Compensation is made only for completed studies.

Your questions, concerns, rights: If you would like more information about this study now or at any time, contact the faculty member investigators, Dr. V. Joseph Hotz (919-660-1841) or Dr. Peter Arcidiacono (919-660-1816). If you have any questions or concerns about your rights as a research subject, you may contact the Chairperson of the IRB Office at Duke University at 919-684-3030.

Participants Agreement: If you consent to participate in this study, enter your name below to indicate your consent, and click next to start the survey. Please print a copy of this consent form for your records.

Duke Unique ID:

E-mail Address:

Signature:

Month:

Day:

Year:

Important: Only MALE students are eligible to participate in this survey and receive the compensation.

1. What year are you?

- Freshman (Class of 2012)
- Sophomore (Class of 2011)
- Junior (Class of 2010)
- Senior (Class of 2009)

2. Which of the following best fits how you would describe yourself?

- White
- Black
- Latino
- Asian
- Other

3. Are you a US citizen?

- Yes
- No

4. Are you on financial aid?

- Yes
- No

5. What is your major? If you have not declared your major yet, what is your expected major at Duke?

6. For juniors and seniors, knowing what you know now, would you have chosen a different major if you were still a freshman?

- Yes
- No

7. If your answer to the previous question is "Yes", what is the major that you would have chosen instead of the current major?

8. If you switched your major, please tell us your previous majors in order of when the switch happened.

	Major Declared
Original:	
First Switch:	
Second Switch:	

9. What is your intended career?

10. What is the highest level of education you ever expect to complete?

- No degree
- Bachelor's degree
- Post-BA or post-master certificate
- Master's degree
- Doctoral degree
- First-professional degree

11. Rank your preference for the following fields, from the most preferred to the least. To help you answer this question, we provide the list of majors and their respective fields below.

<p>Natural Science Biological Anthropology and Anatomy Biology Chemistry Earth & Ocean Sciences Mathematics Physics</p> <p>Humanities and Arts Art History Asian and African Languages and Literature Classical Civilization/Classical Languages Dance English French Studies German International Comparative Studies Italian Studies Literature Medieval & Renaissance Studies Music Philosophy Religion Spanish Theater Studies Visual Arts</p>	<p>Engineering Computer Science Biomedical Engineering Civil Engineering Electrical & Computer Engineering Mechanical Engineering</p> <p>Social Sciences Cultural Anthropology History Linguistics Psychology Sociology Women's Studies</p> <p>Economics Economics</p> <p>Policy Environmental Science and Policy Political Science Public Policy Studies</p>
---	--

	1st	2nd	3rd	4th	5th	6th
Natural Sciences						
Humanities and Arts						
Engineering						
Social Sciences						
Economics						
Policy						

12. Please rate your competitiveness relative to your peers at Duke in the following academic fields. (1=much better, 3=average, 5=much worse)

	1	2	3	4	5
Natural Sciences					
Humanities and Arts					
Engineering					
Social Sciences					
Economics					
Policy					

13. Rank your preference for the following career fields, from the most preferred to the least. To help you answer this question, we provide the list of career fields below.

Science/Technology (scientist, engineer, etc)
Health (physician, nurse, pharmacist, etc)
Business (consultant, trader, marketing, etc)
Government/Non-profit
Education (teacher, professor, etc)
Law

	1st	2nd	3rd	4th	5th	6th
Science						
Health						
Business						
Government						
Education						
Law						

14. Suppose you majored in the following academic field. What are the probabilities that you will pursue the following career field AFTER majoring in each academic field. (note: entries of each row should sum up to 1.)

	Science	Health	Business	Government	Education	Law
Natural Sciences						
Humanities and Arts						
Engineering						
Social Sciences						
Economics						
Policy						

For the following questions regarding future income, please answer them in pre-tax, per-year, U.S. dollar term, ignoring the inflation effect.

15. Suppose you majored in the following academic field. How much do you think you will make working in the following career field right after graduation?

	Science	Health	Business	Government	Education	Law
Natural Sciences						
Humanities and Arts						
Engineering						
Social Sciences						
Economics						
Policy						

16. Suppose you majored in the following academic field. How much do you think you will make working in the following career field 10 years after graduation?

	Science	Health	Business	Government	Education	Law
Natural Sciences						
Humanities and Arts						
Engineering						
Social Sciences						
Economics						
Policy						

17. Suppose an average Duke student majored in natural science. What do you think the probabilities he will choose the following careers are? How much do you think he will make working in the following careers 10 years after graduation?

	Probability	Income
Science		
Health		
Business		
Government		
Education		
Law		

18. Suppose an average Duke student majored in humanities and arts. What do you think the probabilities he will choose the following careers are? How much do you think he will make working in the following careers 10 years after graduation?

	Probability	Income
Science		
Health		
Business		
Government		
Education		
Law		

19. Suppose an average Duke student majored in engineering. What do you think the probabilities he will choose the following careers are? How much do you think he will make working in the following careers 10 years after graduation?

	Probability	Income
Science		
Health		
Business		
Government		
Education		
Law		

20. Suppose an average Duke student majored in social science. What do you think the probabilities he will choose the following careers are? How much do you think he will make working in the following careers 10 years after graduation?

	Probability	Income
Science		
Health		
Business		
Government		
Education		
Law		

21. Suppose an average Duke student majored in economics. What do you think the probabilities he will choose the following careers are? How much do you think he will make working in the following careers 10 years after graduation?

	Probability	Income
Science		

Health		
Business		
Government		
Education		
Law		

22. Suppose an average Duke student majored in policy. What do you think the probabilities he will choose the following careers are? How much do you think he will make working in the following careers 10 years after graduation?

	Probability	Income
Science		
Health		
Business		
Government		
Education		
Law		

23. Now, suppose you meet an average natural science student at Duke. What do you think the probabilities he will choose the following careers are? How much do you think he will make working in the following careers 10 years after graduation?

	Probability	Income
Science		
Health		
Business		
Government		
Education		
Law		

24. Suppose you meet an average humanities student at Duke. What do you think the probabilities he will choose the following careers are? How much do you think he will make working in the following careers 10 years after graduation?

	Probability	Income
Science		
Health		
Business		
Government		
Education		
Law		

25. Suppose you meet an average engineering student at Duke. What do you think the probabilities he will choose the following careers are? How much do you think he will make working in the following careers 10 years after graduation?

	Probability	Income
Science		
Health		
Business		
Government		
Education		
Law		

26. Suppose you meet an average social science student at Duke. What do you think the probabilities he will choose the following careers are? How much do you think he will make working in the following careers 10 years after graduation?

	Probability	Income
Science		
Health		
Business		
Government		
Education		
Law		

27. Suppose you meet an average economics student at Duke. What do you think the probabilities he will choose the following careers are? How much do you think he will make working in the following careers 10 years after graduation?

	Probability	Income
Science		
Health		
Business		
Government		
Education		
Law		

28. Suppose you meet an average policy student at Duke. What do you think the probabilities he will choose the following careers are? How much do you think he will make working in the following careers 10 years after graduation?

	Probability	Income
Science		
Health		
Business		
Government		
Education		
Law		

In the next page, I will ask you to quantify the differences in your preference for different majors/careers in dollar term.

Below is my specification of major/career fields available.

Academic Fields

<p>Natural Science</p> <ul style="list-style-type: none"> Biological Anthropology and Anatomy Biology Chemistry Earth & Ocean Sciences Mathematics Physics <p>Humanities and Arts</p> <ul style="list-style-type: none"> Art History Asian and African Languages and Literature Classical Civilization/Classical Languages Dance English French Studies German International Comparative Studies Italian Studies Literature Medieval & Renaissance Studies Music Philosophy Religion Spanish Theater Studies Visual Arts 	<p>Engineering</p> <ul style="list-style-type: none"> Computer Science Biomedical Engineering Civil Engineering Electrical & Computer Engineering Mechanical Engineering <p>Social Sciences</p> <ul style="list-style-type: none"> Cultural Anthropology History Linguistics Psychology Sociology Women's Studies <p>Economics</p> <ul style="list-style-type: none"> Economics <p>Policy</p> <ul style="list-style-type: none"> Environmental Science and Policy Political Science Public Policy Studies
---	--

Career Fields

Science/Technology (scientist, engineer, etc)
Health (physician, nurse, pharmacist, etc)
Business (consultant, trader, marketing, etc)
Government/Non-profit
Education (teacher, professor, etc)
Law

29. What is your current field of study? If you haven't declared your major, what is your intended field of study?

- Natural Science
- Humanities and Arts
- Engineering
- Social Science
- Economics
- Policy

30. What is your intended career?

- Science/technology
- Health
- Business
- Government/Non-profit
- Education
- Others

31. How much more would you have to make annually after majoring in the following fields, in order for you to switch from your current major?

For example, how much more must your expected income from studying humanities increase, in order for you to switch from your current major choice? In case you feel that there are major choice that you

will NEVER switch to, suppose your expected annual salary from that choice increases by \$1,000,000. Would you still not consider the move? If so, type 1000000 in the corresponding box. Otherwise, please type the appropriate value.

	How much more to switch to...
Natural Science	
Humanities and Arts	
Engineering	
Social Science	
Economics	
Policy	

32. How much more would you have to make annually in the following major/career combination, in order for you to switch from your current major/career choice? For example, how much more must your expected income from studying humanities and working and working as a scientist increase, in order for you to switch from your current major/career combination? In case you feel that there are major/career choice that you will NEVER switch to, suppose your expected annual salary from that choice increases by \$1,000,000. Would you still not consider the move? If so, type 1000000 in the corresponding box. Otherwise, please type the appropriate value.

	Science	Health	Business	Government	Education	Law
Natural Sciences						
Humanities and Arts						
Engineering						
Social Sciences						
Economics						
Policy						