

Generalized Professional Responsibility Assessment (GPRA)* - First Year Student Version**

(last updated December 11, 2018)

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The GPRA can be used in its original or modified form as long as the acknowledgment section below is included.

***Acknowledgments:** The Generalized Professional Responsibility Assessment (GPRA) was developed by Jason Borenstein, Wendy Newstetter, Colin Potts, and Ellen Zegura with the assistance of graduate students Alexandria Erwin and Daniel Schiff at the Georgia Institute of Technology, and is based upon work supported by the U.S. National Science Foundation Cultivating Cultures for Ethical STEM program under Grant No. 1635554. The foundation and theoretical basis for the GPRA is derived from the Engineering Professional Responsibility Assessment (EPRA) created by Nathan E. Canney and Angela R. Bielefeldt from the University of Colorado – Boulder with support by the U.S. National Science Foundation Division of Engineering Education and Centers under Grant No. 1158863.

**There are different variations of the GPRA; the one provided here is designed to be used with first year undergraduates. If the intent is to survey students who have already begun their undergraduate program, then the instrument needs to be modified from asking about “high school” experiences to experiences in “college.”

***The Georgia Tech research team has also asked research subjects several demographic questions that are not included in this document.

Section 1: Survey Questions

Please answer the questions below based on what you think your profession will be in the future.

Q1 Which profession is closest to what you plan on pursuing in the future?

- Architecture, Arts or Design (1)
 - Business or Economics (2)
 - Communications, Media or Entertainment (3)
 - Computing (4)
 - Engineering (5)
 - Law or Public Policy (6)
 - Medicine or Health (7)
 - Science (8)
 - Other (9) _____
-

Q2 Please rate how important you think the following skills are in your intended profession using the scale below:

	1 Very Unimportant (1)	2 Unimportant (2)	3 Slightly Unimportant (3)	4 Neutral (4)	5 Slightly Important (5)	6 Important (6)	7 Very Important (7)
Professional ethics (ensuring all of your work follows professional codes of conduct)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Societal context (how your work connects to society and vice versa)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Volunteering (for professional and personal reasons)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Cultural awareness / understanding (of your culture and those of others)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Page Break

Q3 Rate the level to which you agree/disagree with the following statements using the scale below:

	1 - Strongly Disagree (1)	2 - Disagree (2)	3 - Slightly Disagree (3)	4 - Neutral (4)	5 - Slightly Agree (5)	6 - Agree (6)	7 - Strongly Agree (7)
People in my intended profession have contributed greatly to fixing problems in the world (1)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I would not change a design or recommendations because they conflicted with community feedback (2)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Volunteer experiences have changed the way I think about spending money (3)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
It is important to me to have a career that involves helping people (4)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The skills in my intended profession are not useful in making the community a better place (5)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
It is important for people in my intended profession to consider the potential broader impacts of technical solutions to problems (6)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Service should not be an expected part of my intended profession (7)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I would be willing to have a career that earns less money if I were serving society (8)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I will use the skills gained from my intended profession to help others (9)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I view my intended profession and community service work as unconnected (10)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I feel called to serve others through my intended profession (11)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

The needs of society have no effect on my choice to pursue my intended profession (12)

Technology does not play an important role in solving society's problems (14)

My professional skills are strengthened through participation in service opportunities (15)

I feel called by the needs of society to pursue my intended profession (16)

I doubt that volunteer work will ever have much affect on my career (18)

I think it is important to use the skills gained from my intended profession to serve others (19)

People in my intended profession can have a positive impact on society (20)

People in my intended profession should use their skills to solve social problems (21)

It is important to use my professional abilities to provide a useful service to the community (22)

I believe that I will be involved in social justice issues for the rest of my life (23)

I do not think it is important to use skills gained from my intended profession to serve the greater community (24)

I believe my life will be positively affected by the volunteering that I do (25)

Q4 Rate the level to which you agree/disagree with the following statements below using the scale below:

	1 - Strongly Disagree (1)	2 - Disagree (2)	3 - Slightly Disagree (3)	4 - Neutral (4)	5 - Slightly Agree (5)	6 - Agree (6)	7 - Strongly Agree (7)
I can make a difference in my community (1)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
America does not have communities that need help (2)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I think people who are more fortunate in life should help less fortunate people with their needs and problems (3)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I believe that extra time spent on community service is worthwhile (4)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
It is not my responsibility to do something about improving society (5)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I believe it takes more than time, money, and community efforts to change social problems: we also need to work for change at a national or global level (6)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Community groups need our help (7)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
There are not people in the community who need help (8)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

I can have an impact on solving problems that face my local community (9)

It is important to me to have a sense of contribution and helpfulness through participating in community service (10)

Please mark "3 - Slightly Disagree" if you are reading this question (11)

It is my responsibility to take some real measures to help others in need (12)

I feel an obligation to contribute to society (13)

There are people who have needs which are not being met (14)

My contribution to society will make a real difference (15)

I think I should help people who are less fortunate with their needs and problems (16)

I cannot have an impact on solving problems that face underserved communities internationally (17)

There are needs to address in the community (18)

Helping others is a central message in my intended major (19)

Q5 Rate the typical frequency that you have engaged in any of the following community service activities since beginning high school using the scale below:

	0 - Have not participated (1)	1 - Only a few times during high school (2)	2 - Once or Twice per year (3)	3 - More than twice per year but not routinely (4)	4 - Monthly (5)	5 - Weekly (6)
Habitat for Humanity Build (1)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Tutoring elementary or secondary children (2)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Tutoring high school students (unpaid) (3)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Donated blood (4)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
In Class Service Learning Project (service-oriented capstone project) (5)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Food Bank Volunteer (7)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Meals on Wheels Volunteer (8)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Nursing Home Volunteer (9)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Political Campaign Volunteer (10)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Big Brother/Big Sister, Boys & Girls Club, Boy/Girl Scouts (11)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Soup Kitchen Volunteer (12)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sports Camp, Coaching, etc. (unpaid) (13)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other: (15)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Q6 What are the reasons that you have participated in community service activities in high school? Check all that apply.

- Required for a class (2)
- I went with a friend (3)
- Makes me feel good (4)
- Because of my religious beliefs (1)
- To help others (5)
- To gain new skills (7)
- To build my resume (8)
- With a professional society or other group that I am a member (9)
- For an international experience (to travel) (10)
- Other (11) _____

Q7 Future Job Qualities: Below there are 8 bins with different job qualities on them. You have 10 stones to distribute among the bins to mark which qualities are important to you when thinking of your future job. You may place multiple stones in any bin, but you must place exactly 10 stones in total and no fractional stone distributions are allowed. Write your number of stones in the square on each bin.

Salary : _____ (1)

Helping People : _____ (2)

Working on Industrial/Commercial Projects : _____ (3)

Working on Community Development Projects : _____ (4)

Living Domestically : _____ (5)

Living Internationally in a Developed Country : _____ (6)

Living Internationally in a Developing Country : _____ (7)

Own Your Own Business (Be Self-Employed) : _____ (8)

Total : _____

Appendix: Codebook

The following codebook links the questions above to corresponding constructs from the Professional Social Responsibility Development Model described in Nathan Canney and Angela Bielefeldt, A Framework for the Development of Social Responsibility in Engineers, International Journal of Engineering Education 2015, 31: 414-424. The table below is presented in order of the questions as they appear in the GPRA.

Construct	Question
ba5	Professional ethics (ensuring all of your work follows professional codes of conduct)
an2	Societal context (how your work connects to society and vice versa)
pc1	Volunteering (for professional and personal reasons)
an1	Cultural awareness / understanding (of your culture and those of others)
pa1	People in my intended profession have contributed greatly to fixing problems in the world
an3	I would not change a design or recommendations because they conflicted with community feedback
pc2	Volunteer experiences have changed the way I think about spending money
pc3	It is important to me to have a career that involves helping people
pa2	The skills in my intended profession are not useful in making the community a better place
an4	It is important for people in my intended profession to consider the potential broader impacts of technical solutions to problems
pc4	Service should not be an expected part of my intended profession
cb1	I would be willing to have a career that earns less money if I were serving society
pc5	I will use the skills gained from my intended profession to help others
pc6	I view my intended profession and community service work as unconnected
pc7	I feel called to serve others through my intended profession
pc8	The needs of society have no effect on my choice to pursue my intended profession
pa3	Technology does not play an important role in solving society's problems
cb2	My professional skills are strengthened through participation in service opportunities
pc9	I feel called by the needs of society to pursue my intended profession
pc11	I doubt that volunteer work will ever have much effect on my career
pc12	I think it is important to use the skills gained from my intended profession to serve others
pa4	People in my intended profession can have a positive impact on society
pc13	People in my intended profession should use their skills to solve social problems
pc14	It is important to use my professional abilities to provide a useful service to the community
pc15	I believe that I will be involved in social justice issues for the rest of my life
pc16	I do not think it is important to use skills gained from my intended profession to serve the greater community

cb3	I believe my life will be positively affected by the volunteering that I do
ab1	I can make a difference in my community
aw1	America does not have communities that need help
pc17	I think people who are more fortunate in life should help less fortunate people with their needs and problems
cb4	I believe that extra time spent on community service is worthwhile
co1	It is not my responsibility to do something about improving society
pc18	I believe it takes more than time, money, and community efforts to change social problems
aw2	Community groups need our help
aw3	There are not people in the community who need help
ab2	I can have an impact on solving problems that face my local community
pc19	It is important to me to have a sense of contribution and helpfulness through participating in community service
co2	It is my responsibility to take some real measures to help others in need
Attention question	Please mark "3 - Slightly Disagree" if you are reading this question
co3	I feel an obligation to contribute to society
aw4	There are people who have needs which are not being met
ab3	My contribution to society will make a real difference
co4	I think I should help people who are less fortunate with their needs and problems
ab4	I cannot have an impact on solving problems that face underserved communities internationally
aw5	There are needs to address in the community