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STEM Survey Code Book

**I Demographics**

1. **Timestamp**: Time of the response
2. **Gender**: Gender of the Participant (Male, Female, Genderfluid, Transgender female)
3. **Major:** Major of the Participant
4. **Minor**: Minor of the Participant
5. **Ethnic:** Ethnic background

(Factor: African American, Asian, Caucasian, Latino/Hispanic, Other (specify))

\* Notice: Those who select other have their specified responses recorded

1. **Orientation:** Sexual orientation

(Factor: Heterosexual, Gay/homosexual, Bisexual, Queer, Other(Specify))

\* Notice: Those who select other have their specified responses recorded

1. **MotherEduc:** Mother’s level of education

(High school or less, Two-year college, Four-year college, Graduate or professional degree, “”(No Response))

1. **FatherEduc:** Father’s level of education

(High school or less, Two-year college, Four-year college, Graduate or professional degree, “”(No Response))

1. **Year:** Year in college

(Freshman, Sophomore, Junior, Senior, fifth year, “”(No Response))

1. **International**: Are you an international student? (Yes, No, “”(No Response))
2. **Country:** For international students, please specify country of origin (Character)
3. **Transfer:** Did you transfer from a community college? (Yes, No, “”(No Response))
4. **EFL**: Is English your first language? (Yes, No, “”(No Response))
5. **FirstGen:** Are you the first generation in your family to attend college? (Yes, No, “”(No

Response))

1. **STEM:** Are you a STEM major? (Yes ,No, “”(No Response))
2. **GPA:** Your UCLA GPA (Numeric, “0” if not established)
3. **HighGPA:** Your high school GPA (Numeric)
4. **SameEthnic:** How many friends do you have from your own ethnic background?
5. **OtherEthnic:** many friends do you have from other ethnic backgrounds?

**II Please answer the following questions by placing a check mark in the relevant column.**

*For this Set of questions: all the possible answers are coded in (“Never”, “Rarely”, “Sometimes”, “Often”, “Always”, “”(No Responses))*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| How often do you…? (Factor) | Never | Rarely | Sometime | Often | Always |
| **Q2.1:** I get enough sleep. |  |  |  |  |  |
| **Q2.2:** I miss classes. |  |  |  |  |  |
| **Q2.3:** I do my homework. |  |  |  |  |  |
| **Q2.4:** I exercise. |  |  |  |  |  |
| **Q2.5:** I go to office hours. |  |  |  |  |  |

**III Help us know UCLA students better by putting a check mark in the appropriate column**

*For this Set of questions: all the possible answers are coded in (“Strongly Agree”, “Agree”, “Neither Agree or Disagree”, “Disagree”, “Strongly Disagree”, “”(No Responses))*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Statement | Strongly agree | Agree | Neither agree of disagree | Disagree | Strongly disagree |
| **Q3.1:** my family believes STEM majors make more money. |  |  |  |  |  |
| **Q3.2:** My high school prepared me well for STEM classes. |  |  |  |  |  |
| **Q3.3:** My family believes that STEM is more appropriate for males. |  |  |  |  |  |
| **Q3.4:** My family struggled financially when I was growing up. |  |  |  |  |  |
| **Q3.5:** I need to work to pay for my expenses. |  |  |  |  |  |
| **Q3.6:** I need to graduate and get a job as soon as possible. |  |  |  |  |  |
| **Q3.7:** Most of my friends are from own major. |  |  |  |  |  |
| **Q3.8:** The workload in my major is overwhelming. |  |  |  |  |  |
| **Q3.9:** The workload in my major does not leave enough room for a social life. |  |  |  |  |  |
| **Q3.10:** I experience anxiety about academics |  |  |  |  |  |
| **Q3.11:** I experience anxiety about getting along with my roommates. |  |  |  |  |  |
| **Q3.12:** I experience anxiety with my dating life. |  |  |  |  |  |
| **Q3.13:** I have learned how to cope with the stress in my academics. |  |  |  |  |  |
| **Q3.14:** I seek help when I have an academic problem. |  |  |  |  |  |
| **Q3.15:** I have a general idea about what I want to do after graduation. |  |  |  |  |  |
| **Q3.16:** I feel excluded at UCLA. |  |  |  |  |  |
| **Q3.17:** There is not enough students like me in my major. |  |  |  |  |  |
| **Q3.18:** I wish there were more faculty I could identify with. |  |  |  |  |  |
| **Q3.19:** I feel l belong at UCLA. |  |  |  |  |  |
| **Q3.20:** My parents understand what is takes to get into UCLA. |  |  |  |  |  |
| **Q3.21:** My parents understand the value of a college education. |  |  |  |  |  |
| **Q3.22:** I am happy at UCLA. |  |  |  |  |  |
| **Q3.23:** I am confident in my ability to succeed at UCLA. |  |  |  |  |  |
| **Q3.24:** My experiences at UCLA have helped me to interact with diverse groups. |  |  |  |  |  |

**IV Please write your response to the following questions. You can use as many words as you like.**

1. **HelpFactor:** Please describe the factors that have helped you succeed academically, socially, emotionally, or otherwise at UCLA? It would be great if you can provide us with examples or tell us a story about something that happened.
2. **InhibitFactor:** Please describe the factors that have inhibited your success academically, socially, emotionally, or otherwise at UCLA? It would be great if you can provide us with examples or tell us a story about something that happened.

**V Indicators**

1. **FamilyValue:** Indicator for family value on education (“Low Value”, “Average Value”, “High Value”)
2. **Academic:** Indicator for confidence of academic performance (continuous variable from 0 to 1,0 = Low Confidence, 1 = High Confidence) [Item Reliability: Cronbach’s α = 0.71]
3. **SES:** Indicator for socioeconomic struggle (continuous variable from 0 to 1,0 = Low level of struggle, 1 = High level of struggle) [Item Reliability: Cronbach’s α = 0.74]
4. **Belonging:** Indicator for “sense of belonging” (continuous variable from 0 to 1,0 = Low level of sense of belonging, 1 = High level of sense of belonging) [Item Reliability: Cronbach’s α=0.67]
5. **Stress:** Indicator for “Stress” (continuous variable from 0 to 1,0 = Low level of stress, 1 = High level of stress) [Item Reliability: Cronbach’s α = 0.61]
6. **Exclusion:** Indicator for “Feeling of Exclusion” (continuous variable from 0 to 1,0 = Not Feeling Much Exclusion, 1 = Feeling Much Exclusion) [Item Reliability: Cronbach’s α = 0.62]

**VI New Variables**

*These factors were calculated using factor analysis.*

1. **Belonging\_Factor:**   
   *sum of*:

Q3.13 - I have learned how to cope with the stress in my academics.  
Q3.15 - I have a general idea about what I want to do after graduation.   
Q3.16 (inverted) - I feel excluded at UCLA.   
Q3.19 - I feel l belong at UCLA.

Q3.20 - My parents understand what is takes to get into UCLA.

Q3.21 - My parents understand the value of a college education.

Q3.22 - I am happy at UCLA.

Q3.23 - I am confident in my ability to succeed at UCLA.

Q3.24 - My experiences at UCLA have helped me to interact with diverse groups.

1. **Stress\_Factor:**

*sum of:*Q3.8 - The workload in my major is overwhelming.   
Q3.9 - The workload in my major does not leave enough room for a social life.   
Q.310 - I experience anxiety about academics.  
Q3.13 (inverted) - I have learned how to cope with the stress in my academics.   
Q3.18 - I wish there were more faculty I could identify with.

1. **SES\_Factor:***sum of:*

Q3.4 - My family struggled financially when I was growing up.

Q3.5 - I need to work to pay for my expenses.

Q3.6 - I need to graduate and get a job as soon as possible.