

**University of California, Irvine  
Study Information Sheet**

**Assessment of General Education Student Learning Outcomes in UCI Science Courses**

**Lead Researcher**

Jacquelynne Eccles, PhD  
Professor, Education  
jseccles@uci.edu / (949) 824-5560

**Co-Researchers**

Michael Dennin, PhD  
Professor, Physics and Astronomy  
mdennin@uci.edu / (949) 824-7761, 2995

Anna-Lena Dicke, PhD  
Scientist, Education  
[adicke@uci.edu](mailto:adicke@uci.edu) / (949) 824-8092

Nayssan Safavian, PhD  
Scientist, Education  
[nsafavia@uci.edu](mailto:nsafavia@uci.edu) / (949) 824-7106

- In order to improve UCI students' experiences in science courses, we want to know what you know and what you are learning about science. The research procedures involve analyzing data obtained from standard course activities, such as scores on exams and class assignments as well as your responses to course surveys and evaluations.
- All students enrolled in the following courses are automatically enrolled in this study:

Academic Year 2017–2018		Academic Year 2018–2019			Academic Year 2019–2020		
Winter:	Spring:	Fall:	Winter:	Spring:	Fall:	Winter:	Spring:
CHEM1A	CHEM1B	CHEM1A	CHEM1A	CHEM1B	CHEM1A	CHEM1A	CHEM1B
PHY7C	PHY7D	PHY7C	CHEM1B	PHY7D	CHEM1B	CHEM1B	PHY7D
			PHY7C		PHY7C	PHY7C	
			PHY7D		PHY7D	PHY7D	

- By participating in this study, you are agreeing to allow the research team to collect certain information about you that will be valuable towards assessing what you are learning in these courses and how they can be improved for future offerings. By participating in this study:
  - (1) You authorize the research team to obtain and use your coursework (from the course you are enrolled as listed above) such as assignment and exam scores, your responses to course surveys and evaluations, and your final letter grade.

- (2) You authorize the research group to obtain the following student information from the Teaching and Learning Resource Center (TLRC): your SAT scores (math, critical reading, writing, and total), your UCI GPA, your gender and ethnicity, your major, your class level, your financial aid information (e.g. Pell grant eligibility), your generational college status (e.g. first-generation college going), and your high school honors/advanced placement enrollment and scores.

These data will **ONLY** be reported in aggregate as the average of a large group of students. No personal or identifiable information will be published or available outside of this research project, and all research data collected will be stored securely and confidentially. We will not analyze these data until **AFTER** final grades have been submitted for the quarter in which you are enrolled in.

- As part of the research study, you will be asked to fill out one survey at the beginning and one survey at the end of the course. You will receive a 10\$ gift card for participation in the survey to compensate you for your time (5\$ per survey completed). You will receive the gift card at the end of the term. If you decide to withdraw from the study or are withdrawn by the research team, you will receive compensation for the surveys that you have completed.
- Participation in this study is completely optional. If you do not want your information to be used in this study, you can opt out at any time by emailing Drs. Anna-Lena Dicke ([adicke@uci.edu](mailto:adicke@uci.edu)) or Nayssan Safavian ([nsafavia@uci.edu](mailto:nsafavia@uci.edu)), the research project managers. Whether or not you participate **WILL NOT** affect your grade in the course in any way.
- You must be 18 years old in order to participate in this study. If you are under 18 as of today, please do not participate in this study, as you are not eligible.
- The only foreseeable discomfort associated with the study is the invasion of your privacy and potential breach of confidentiality. There are no direct benefits to you from participation in the study. However, this study may better help us know how to teach UCI science courses in the future.
- Inclusion of your data in our published results is voluntary. There is no cost to you for participating. Your data will be stored for up to five years after participating in this study for use in further research. You may refuse to participate or discontinue your involvement at any time without penalty. If you do not want your information to be used in the study analysis, please contact Drs. Anna-Lena Dicke ([adicke@uci.edu](mailto:adicke@uci.edu)) or Nayssan Safavian ([nsafavia@uci.edu](mailto:nsafavia@uci.edu)).
- The research team, authorized UCI personnel, the study sponsor, and regulatory entities, may have access to your study records to protect your safety and welfare. Any information derived from this research project that personally identifies you will not be voluntarily released or disclosed by these entities without your separate consent, except as specifically required by law.
- If you have any comments, concerns, or questions regarding the conduct of this research please contact the researchers listed at the top of this form. If you are unable to reach the researchers listed at the top of the form and have general questions, or you have concerns or complaints about the research, or questions about your rights as a research subject, please contact UCI's Office of Research by phone, (949) 824-6662, by e-mail at [IRB@rgs.uci.edu](mailto:IRB@rgs.uci.edu) or at 141 Innovation Drive, Suite 250, Irvine, CA 92697-7600.