

## **You Can't Spell SUCCESS without a CC: Examining Non-Cognitive and Affective Factors of Community College and Four-Year Institutions**

**Brian P. Self<sup>1</sup>, Dominic J. Dal Bello<sup>2</sup>, Eric Davishahl<sup>3</sup>, Matthew Scheidt<sup>4</sup>**

*<sup>1</sup>California Polytechnics State University, San Luis Obispo, CA*

*<sup>2</sup>Allan Hancock College, Santa Maria, CA*

*<sup>3</sup>Whatcom Community College, Bellingham, WA*

*<sup>4</sup>Purdue University, West Lafayette, IN*

Non-cognitive and affective (NCA) factors can drastically affect student success in college – both at four year and two-year institutions. We have developed the Studying Underlying Characteristics for Computing and Engineering Student Success (SUCCESS) survey to examine fourteen NCA constructs that may be predictive of student success. These constructs include Big Five Personality, Grit, Identity, Mindset, Motivation, Gratitude, Mindfulness, Belongingness, Test Anxiety, Time and Study Environment, Perceptions of Faculty Caring, Self-Control, Student Life Stress, and Meaning and Purpose. To date we have collected data from 2500 students at 17 four-year institutions and are just beginning to develop community college partners. After examining student characteristics at community colleges, we can begin to identify traits that may be most malleable and that most greatly affect student success, and then develop student support initiatives. We are currently collecting data at two community colleges, and will compare student traits at these institutions to those at four year institutions in our poster. Our goal is to track students after they matriculate to four year institutions, and see if and how the NCA traits change. We also hope to analyze the data to look for correlations between changes in NCA traits and voluntary student participation in extra-curricular and co-curricular activities such as student clubs, undergraduate research, peer tutoring, and internships.