2020 National Survey of Student Engagement (NSSE)
Inclusive Polytechnic Identity Summary Report

Cal Poly Pomona (CPP) is deeply committed to ensuring an educational experience that fosters student learning and success for every student. As part of that commitment, the Office of Assessment and Program Review participates in the nationwide National Survey of Student Engagement (NSSE) every three years to gather information as to the extent to which CPP is meeting this commitment. This survey collects information from first-year and senior students about their participation in programs and activities, what they have gained from their classes, the quality of interactions with faculty and students, as well as their satisfaction with educationally-important activities. Survey results are used to understand and improve student learning and experiences, and also assists the institution in addressing potential equity gaps, and identifying additional resources to improve the undergraduate experience.

In the Spring 2020 semester, all first-year and senior students were invited to participate in the NSSE; approximately 25% of these students completed the survey. A variety of recruitment messages were used to encourage student participation, including emails from President Coley's office, messages displayed on students' Bronco portal, and advertisements posted around campus. The first 500 respondents were incentivized with a $5 Starbucks gift card. However, due to the COVID-19 restrictions soon after the survey launched, these students were provided the opportunity to choose between the gift card or Bronco Bucks.

CPP's NSSE results were compared with three peer groups. The table below outlines the approximate number of first-year and senior respondents from each category. The list of institutions for each of the comparative groups are detailed in appendices A and B.

	Cal Poly Pomona	Master's[1]	CSU[2]	NSSE Total[3]
Institutions	N = 1	N = 118	N = 9	N = 881
First-year students	698	40,237	8,612	255,699
Seniors	1,049	53,308	15,048	295,777
Total	*1,747*	*93,545*	*23,660*	*551,476*

This report details the alignment of NSSE questions with the elements of CPP's inclusive polytechnic identity (figure below[4]). A summary of the findings is provided at the end of this report.

Cal Poly Pomona's Inclusive Polytechnic University

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[1] Carnegie Classification: Master's Colleges. and Universities. Only NSSE participants from 2019 and 2020. See Appendix A.
[2] Only those CSUs who participated in NSSE in 2019 and 2020. See Appendix B.
[3] All institutions who participated in NSSE in 2019 and 2020. See Appendix B.
[4] https://www.cpp.edu/academicplan/documents/academic_master_plan_2019-02-13_final.pdf

Application of Knowledge

Cal Poly Pomona's learn-by-doing philosophy is demonstrated in the university's commitment to a hands-on application of principles to address opportunities and challenges of the modern world, ensuring graduates are prepared to enter the workforce or graduate studies.

During the current school year, how much has your coursework emphasized:		Mean Response			
1 = Very little, 2 = Some, 3 = Quite a bit, 4 = Very much		CPP	Master's	CSU	NSSE TOTAL
Applying facts, theories, or methods to practical problems or new solutions?	FY	2.8	2.9*	2.8	2.9*
	SR	3.1	3.1	3.0	3.1
Analyzing an idea, experience, or line of reasoning in depth by examining its parts?	FY	2.8	2.9	2.9	2.9*
	SR	3.0	3.0	3.1*	3.0
Evaluating a point of view, decision, or information source?	FY	2.8	2.9*	2.9*	2.9
	SR	2.9	3.0*	3.0*	2.9*
Forming a new idea or understanding from various pieces of information?	FY	2.8	2.9*	2.9*	2.9*
	SR	2.9	3.0*	3.0*	3.0

Please note that these scores are significantly different from the corresponding CPP score, p < .05

During the current school year, about how often have you done the following:		Mean Response			
1 = Never, 2 = Sometimes, 3 = Often, 4 = Very often		CPP	Master's	CSU	NSSE TOTAL
Combined ideas from different courses when completing assignments?	FY	2.5	2.5	2.6	2.6
	SR	3.0	2.9*	3.0*	2.9*
Connected your learning to societal problems or issues?	FY	2.5	2.5	2.6*	2.6*
	SR	2.7	2.8*	2.8*	2.8*
Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in course discussion or assignments?	FY	2.5	2.5	2.6*	2.6*
	SR	2.5	2.6*	2.7*	2.6*
Examined the strengths and weaknesses of your own views on a topic or issue?	FY	2.7	2.8	2.8	2.8*
	SR	2.8	2.8*	2.8*	2.8*
Tried to better understand someone else's views by imagining how an issue looks from their perspective?	FY	2.9	2.9	2.9*	2.9
	SR	2.9	3.0	3.0*	3.0
Learned something that changed the way you understand an issue or concept?	FY	2.9	2.8	2.9	2.9
	SR	3.0	3.0	3.0	3.0
Connected ideas from your courses to your prior experiences and knowledge	FY	2.9	3.0*	3.0*	3.0*
	SR	3.1	3.2*	3.2*	3.2*

Please note that these scores are significantly different from the corresponding CPP score, p < .05

Critical Thinking and Problem Solving

Critical thinking and problem solving are emphasized at Cal Poly Pomona by teaching students to apply theoretical principles learned in the classroom to real-world situations through active learning. These activities may include research, creative projects, performances, or culminating experiences. Critical thinking is also one of the university's five Core Competencies. NSSE grouped six different questions together under the category Reflective and Integrative Learning (i.e., Academic Challenge).
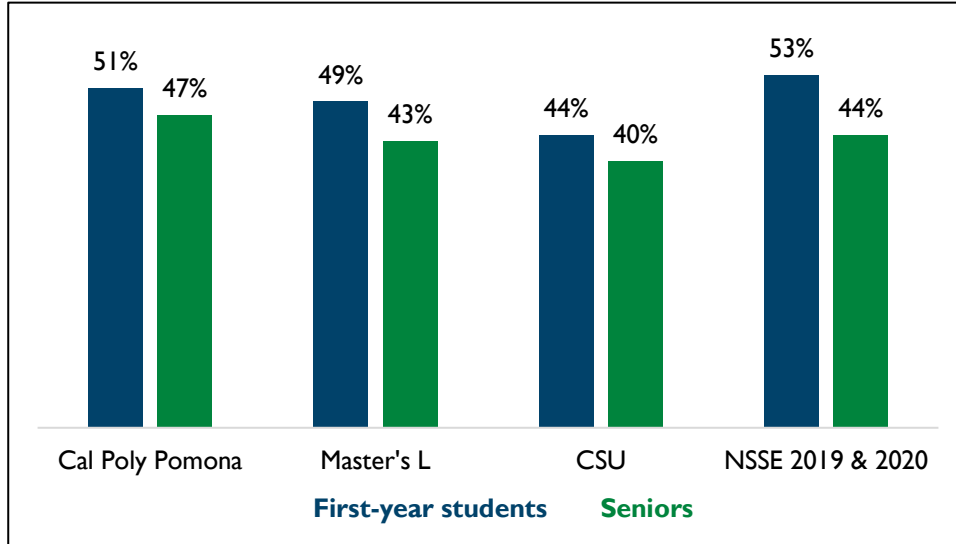
During the current school year, about how often have you done the following:		Mean Response			
1 = Never, 2 = Sometimes, 3 = Often, 4 = Very often		CPP	Master's	CSU	NSSE TOTAL
Combined ideas from different courses when completing assignments?	FY	2.5	2.5	2.6	2.6
	SR	3.0	2.9*	3.0*	2.9*
Connected your learning to societal problems or issues?	FY	2.5	2.5	2.6*	2.6*
	SR	2.7	2.8*	2.8*	2.8*
Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in course discussion or assignments?	FY	2.5	2.5	2.6*	2.6*
	SR	2.5	2.6*	2.7*	2.6*
Examined the strengths and weaknesses of your own views on a topic or issue?	FY	2.7	2.8	2.8	2.8*
	SR	2.8	2.8*	2.8*	2.8*
Tried to better understand someone else's views by imagining how an issue looks from their perspective?	FY	2.9	2.9	2.9*	2.9
	SR	2.9	3.0	3.0*	3.0
Learned something that changed the way you understand an issue or concept?	FY	2.9	2.8	2.9	2.9
	SR	3.0	3.0	3.0	3.0
Connected ideas from your courses to your prior experiences and knowledge	FY	2.9	3.0*	3.0*	3.0*
	SR	3.1	3.2*	3.2*	3.2*

Please note that these scores are significantly different from the corresponding CPP score, p < .05
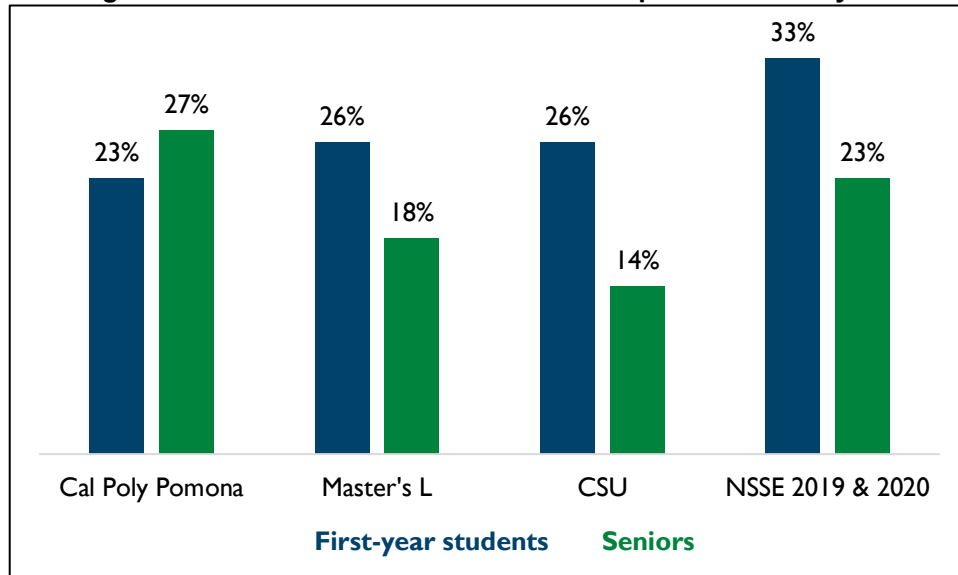
Creativity, Discovery, and Innovation

Creativity, discovery, and innovation are at the core of Cal Poly Pomona's mission to provide tried and true methods to replicate real-world experiences into student learning.
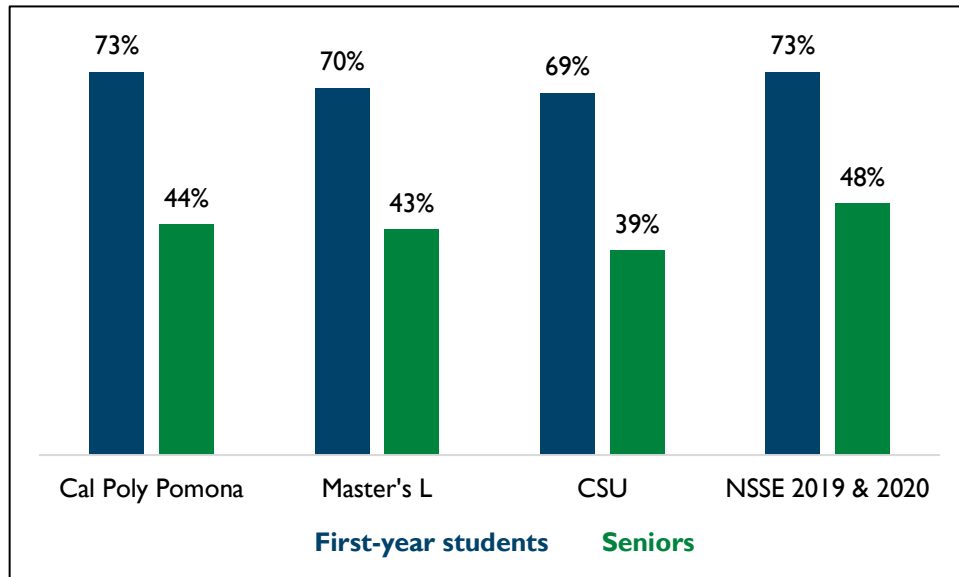
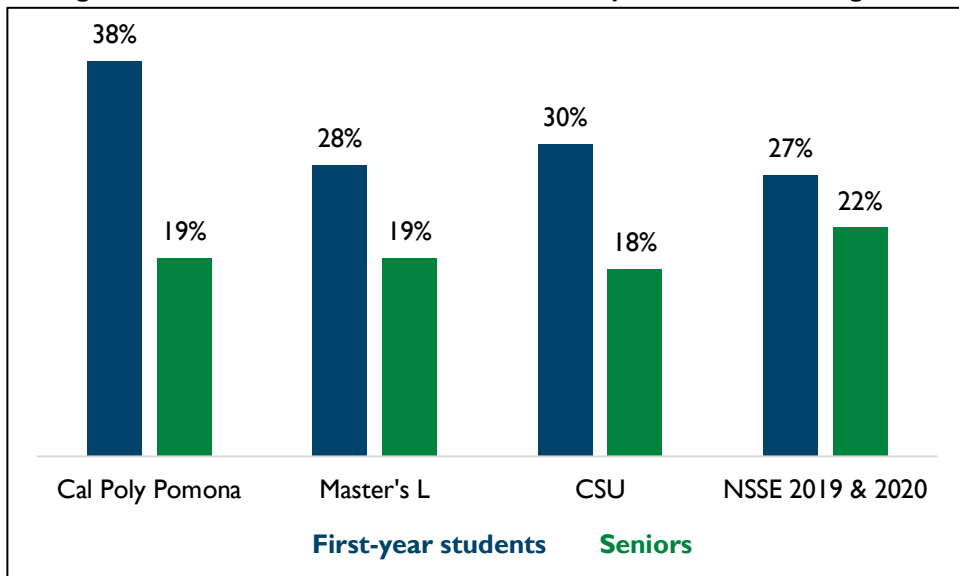**Percentage of Students' Planned and Actual Participation in a Culminating Senior Experience.**

	Cal Poly Pomona	Master's L	CSU	NSSE 2019 & 2020
First-year students	51%	49%	44%	53%
Seniors	47%	43%	40%	44%

Percentage of Students' Planned and Actual Participation in Faculty Research.

	Cal Poly Pomona	Master's L	CSU	NSSE 2019 & 2020
First-year students	23%	26%	26%	33%
Seniors	27%	18%	14%	23%

Percentage of Students' Planned and Actual Participation in an Internship, Field Experience, etc.

	First-year students	Seniors
Cal Poly Pomona	73%	44%
Master's L	70%	43%
CSU	69%	39%
NSSE 2019 & 2020	73%	48%

First-year students   **Seniors**

Percentage of Students' Planned and Actual Participation in a Learning Community.

	First-year students	Seniors
Cal Poly Pomona	38%	19%
Master's L	28%	19%
CSU	30%	18%
NSSE 2019 & 2020	27%	22%

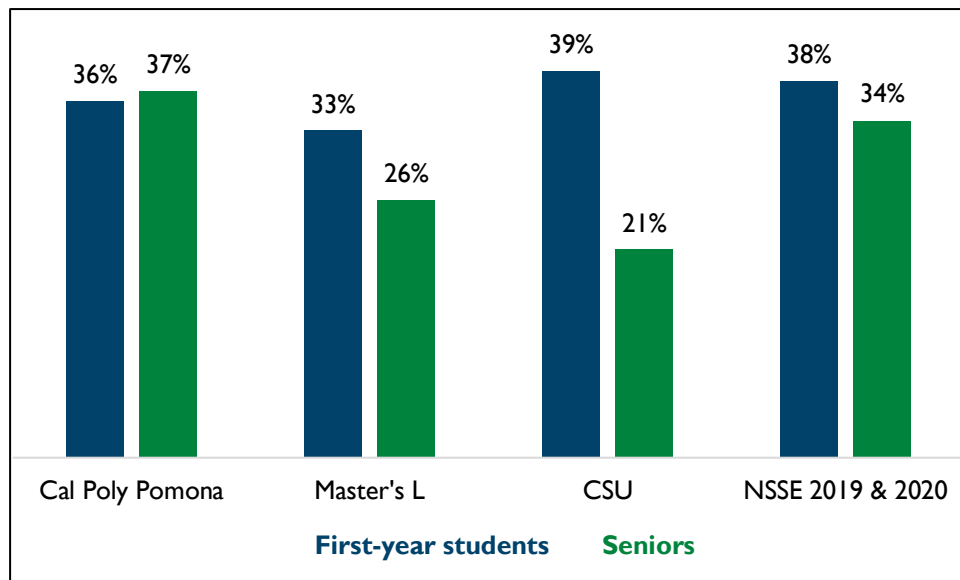**First-year students**   **Seniors**

Percentage of Students' Planned and Actual Participation in a Study Abroad Program.
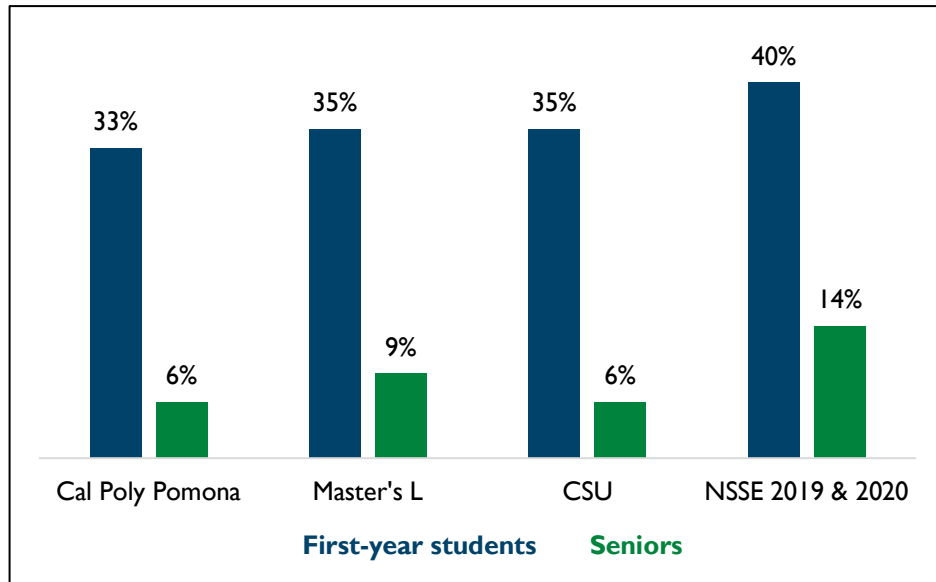
Percentage of Students' Planned and Actual Participation in a Leadership Role in Student Organization.

Diverse and Multi-disciplinary Perspectives

Diversity is another core value of Cal Poly Pomona's mission to enrich student learning. In fact, Cal Poly Pomona believes it is necessary to include diverse perspectives in order to draw connections between various interpersonal and disciplinary collaborations.

During the current school year, about how often have you done the following:					
1 = Never, 2 = Sometimes, 3 = Often, 4 = Very often		**Mean Response**			
		CPP	**Master's**	**CSU**	**NSSE TOTAL**
Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in course discussion or assignments?	FY	2.5	2.5	2.6*	2.6*
	SR	2.5	2.6*	2.7*	2.6*
Tried to better understand someone else's views by imagining how an issue looks from their perspective?	FY	2.9	2.9	2.9*	2.9
	SR	2.9	3.0	3.0*	3.0
Learned something that changed the way you understand an issue or concept?	FY	2.9	2.8	2.9	2.9
	SR	3.0	3.0	3.0	3.0

Please note that these scores are significantly different from the corresponding CPP score, p < .05

During the current school year, how often have you had discussions with the people from the following groups:					
1 = Never, 2 = Sometimes, 3 = Often, 4 = Very often		**Mean Response**			
		CPP	**Master's**	**CSU**	**NSSE TOTAL**
People of a race or ethnicity other than your own?	FY	2.9	3.0	3.1*	3.0*
	SR	3.2	3.0*	3.2	3.1*
People from an economic background other than your own?	FY	2.9	2.9	2.9	3.0*
	SR	3.2	3.0*	3.1*	3.1*
People with religious beliefs other than your own?	FY	2.7	2.8*	2.8	2.9*
	SR	3.1	2.9*	3.0*	3.0*
People with political views other than your own?	FY	2.6	2.8*	2.7	2.9*
	SR	2.9	2.8	2.8*	2.9

Please note that these scores are significantly different from the corresponding CPP score, p < .05

Collaborative Learning

Group approaches to learning and problem solving are utilized to facilitate and instill strong interpersonal and leadership skills so that students may succeed at Cal Poly Pomona and in their future careers and graduate studies. The ability to work effectively with others is developed by participating in learning communities, collaborative projects, and collaborative assignments.
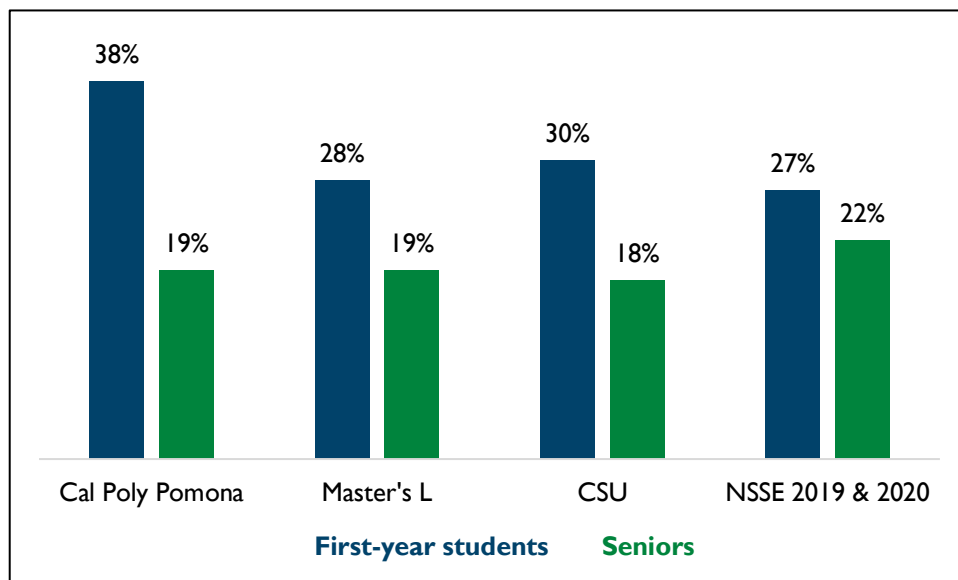
How much has your experience at this institution:		Mean Response			
1 = Very little, 2 = Some, 3 = Quite a bit, 4 = Very much		CPP	Master's	CSU	NSSE TOTAL
Contributed to your knowledge, skills, and personal development to working effectively with others?	FY	2.9	2.9	2.9	2.9
	SR	3.1	3.0*	3.1	3.1

Please note that these scores are significantly different from the corresponding CPP score, p < .05

During the current school year, how often have you done the following:		Mean Response			
1 = Never, 2 = Sometimes, 3 = Often, 4 = Very often		CPP	Master's	CSU	NSSE TOTAL
Asked another student to help you understand the course material?	FY	2.7	2.5*	2.7	2.6*
	SR	2.8	2.3*	2.6*	2.4*
Explained course material to one or more students?	FY	2.6	2.6	2.7*	2.7*
	SR	2.9	2.6*	2.8*	2.7*
Prepared for exams by discussing or working through course material with other students?	FY	2.4	2.4	2.5	2.5*
	SR	2.7	2.3*	2.6*	2.5*
Worked with other students on course projects or assignments?	FY	2.7	2.6*	2.7	2.6*
	SR	3.2	2.7*	3.0*	2.8*

Please note that these scores are significantly different from the corresponding CPP score, p < .05

Percentage of Students' Planned and Actual Participation in a Learning Community.

First-year students   Seniors

Cal Poly Pomona: 38% (First-year), 19% (Seniors)
Master's L: 28% (First-year), 19% (Seniors)
CSU: 30% (First-year), 18% (Seniors)
NSSE 2019 & 2020: 27% (First-year), 22% (Seniors)

Community and Global Engagement

The university places importance on helping students become ethical and civic-minded citizens, with engagement with local communities and establishing reciprocal relationships as crucial. Students are encouraged to engage with the community through local internships, service-learning activities, and other community engagement opportunities the university offers to students. Through the university's international exchange and study abroad programs, students can experience different cultures, views, and ideals.

**Number of Hours CPP Students Spent Doing Community Service or Volunteer Work.**
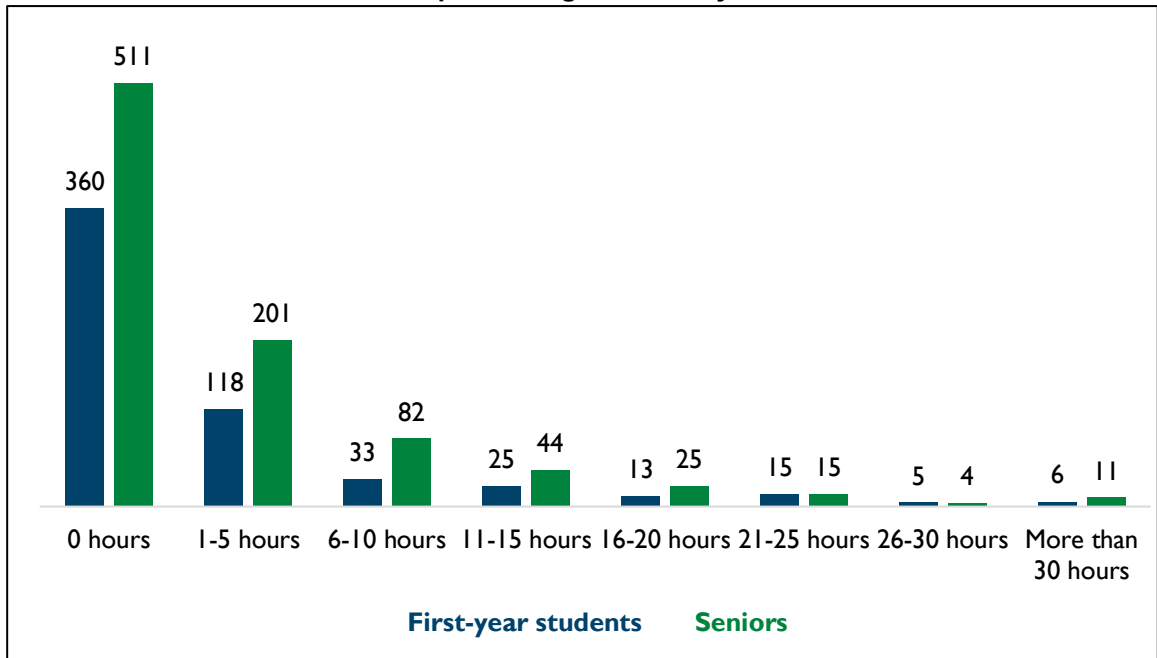
How much does your institution emphasize the following:		Mean Response			
1 = Very little, 2 = Some, 3 = Often, 4 = Very often		**CPP**	**Master's**	**CSU**	**NSSE TOTAL**
Providing opportunities to be involved socially?	FY	2.8	2.9*	2.9*	3.0*
	SR	2.7	2.7	2.8	2.8*
Attending events that address important social, economic, or political issues?	FY	2.3	2.4*	2.4*	2.5*
	SR	2.2	2.2	2.3*	2.3*
Encouraging contact among students from different backgrounds (social, racial/ethnic, religious, etc.)?	FY	2.7	2.8	2.8*	2.8
	SR	2.7	2.6	2.8*	2.6

Please note that these scores are significantly different from the corresponding CPP score, p < .05

How many of your courses at this institution have included a community-based project (service-learning)?					
1 = None, 2 = Some, 3 = Most, 4 = All		**Mean Response**			
		CPP	**Master's**	**CSU**	**NSSE TOTAL**
How many courses have included service-learning?	FY	1.7	1.7*	1.7	1.6*
	SR	1.8	1.8	1.9*	1.8

Please note that these scores are significantly different from the corresponding CPP score, p < .05

**Percentage of Students' Planned and Actual Participation in a Study Abroad Program.**
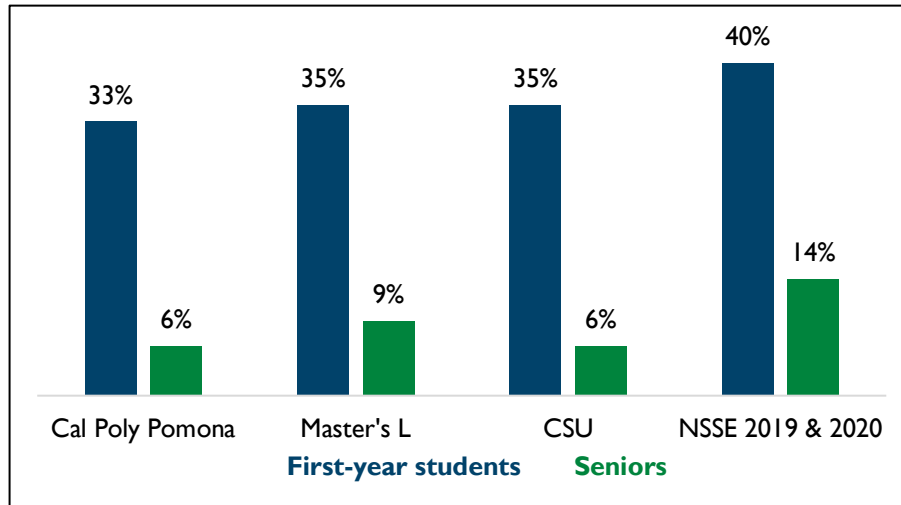
Professional and Career Readiness

The polytechnic elements ensure that graduates are ready to enter the workforce and/or graduate studies as effective, ethical citizens. The methods comprised in all the elements instills the values required to ensure graduates are ready for their professional and career opportunities available to them.

During the current school year, about how often have you done the following:					
1 = Never, 2 = Sometimes, 3 = Often, 4 = Very often		**Mean Response**			
		CPP	**Master's**	**CSU**	**NSSE TOTAL**
Talked about career plans with a faculty member?	FY	2.2	2.3*	2.2	2.3*
	SR	2.4	2.5*	2.4	2.5*

Please note that these scores are significantly different from the corresponding CPP score, p < .05

Percentage of Students' Planned and Actual Participation in an Internship/Field Experience.
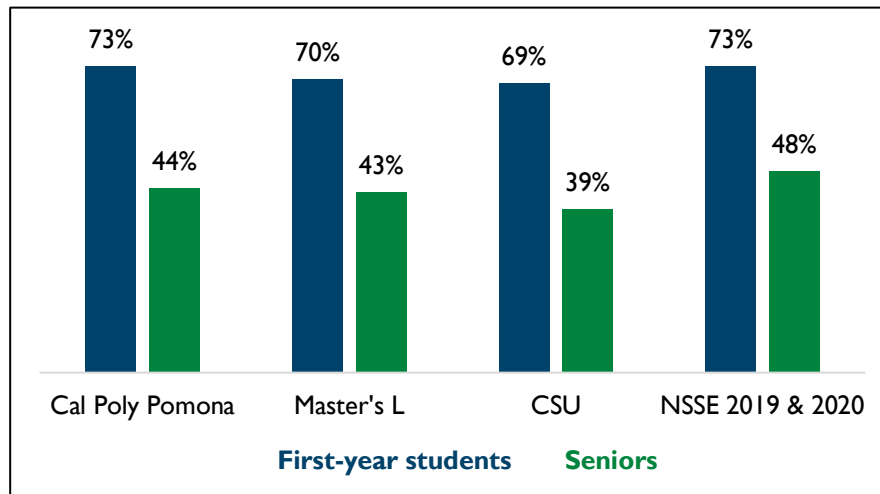
How much has your experience at this institution:					
1 = Very little, 2 = Some, 3 = Quite a bit, 4 = Very much		**Mean Response**			
		CPP	**Master's**	**CSU**	**NSSE TOTAL**
Contributed to your knowledge, skills, and personal development to acquiring job- or work-related knowledge and skills?	FY	2.5	2.6*	2.5	2.6*
	SR	2.9	3.0*	2.8	3.0

Please note that these scores are significantly different from the corresponding CPP score, p < .05

Summary and Highlights

Application of Knowledge:

- First-year students reported that their coursework emphasized applying facts, theories, or methods to practical problem or new solutions significantly less often than their comparison group peers; however, seniors reported similar levels of this activity as their comparison group peers.

Critical Thinking and Problem Solving:

- First-year and senior students reported engaging in various aspects of critical thinking and problem solving less frequently than their comparison group peers.
- CPP seniors reported combining ideas from different courses when completing assignments more often than their comparison group peers.

Creativity, Discovery, and Innovation

- While the majority of first-year students planned to participate in a culminating senior experience, a smaller percentage of seniors actually reported having done so.
- A greater percentage (27%) of CPP seniors reported participation in faculty research in comparison to their peers in comparison groups, including CSU (14%) and Master's-level institutions (18%).

Diverse and Multi-disciplinary Perspectives

- Both first-year and senior students included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in course discussion or assignments less frequently than their comparison group peers.
- CPP's senior students had discussions with others of a different race or ethnicity, economic background, and religious beliefs more frequently than their comparison group peers.

Collaborative Learning

- Both first-year students and seniors reported interacting with fellow students significantly more often than their peers in the comparison groups, including working together to understand course material, preparing for exams, and on projects and assignments.

Community and Global Engagement

- The majority of CPP students reported 0 hours per week engaged in community service.
- First-year students reported less institutional emphasis on providing opportunities to be involved socially in comparison to their peer groups at other institutions.
- Both first-year and senior students felt that CPP did not emphasize attending events that address important social, economic, or political issues as often as their comparison group peers.
- A greater percentage of first-year students reported interest in studying abroad than seniors who reported participating. This pattern is consistent with our comparative groups.

Professional and Career Readiness

- Both first-year and senior students discussed career plans with a faculty member less frequently than their peers in comparison groups, but with similar frequency as other CSUs.
- A greater percentage of first-year students reported plans to participate in internships/field experiences than seniors who actually did so. This pattern is consistent with our comparison groups as well.

Appendix A

Master's Comparison Universities: Master's Colleges and Universities

Abilene Christian University (Abilene, TX)	Oklahoma Christian University (Edmond, OK)
Alabama A&M University (Normal, AL)	Pfeiffer University (Misenheimer, NC)
Arcadia University (Glenside, PA)	Pittsburg State University (Pittsburg, KS)
Ashford University (San Diego, CA)	Plymouth State University (Plymouth, NH)
Auburn University at Montgomery (Montgomery, AL)	Point Loma Nazarene University (San Diego, CA)
Baldwin Wallace University (Berea, OH)	Prairie View A&M University (Prairie View, TX)
Bentley University (Waltham, MA)	Providence College (Providence, RI)
Bowie State University (Bowie, MD)	Purdue University Fort Wayne (Fort Wayne, IN)
Brenau University (Gainesville, GA)	Purdue University Northwest (Hammond, IN)
Bridgewater State University (Bridgewater, MA)	Queens University of Charlotte (Charlotte, NC)
Butler University (Indianapolis, IN)	Radford University (Radford, VA)
Cabrini University (Radnor, PA)	Rollins College (Winter Park, FL)
California Lutheran University (Thousand Oaks, CA)	Saint Ambrose University (Davenport, IA)
California State University-Bakersfield (Bakersfield, CA)	Saint Joseph's College (Standish, ME)
California State University-Dominguez Hills (Carson, CA)	Saint Xavier University (Chicago, IL)
California State University-Long Beach (Long Beach, CA)	Salve Regina University (Newport, RI)
California State University-Stanislaus (Turlock, CA)	San Francisco State University (San Francisco, CA)
California State University, Chico (Chico, CA)	Shippensburg University of Pennsylvania (Shippensburg, PA)
California State University, Fullerton (Fullerton, CA)	Southeastern Louisiana University (Hammond, LA)
California State University, Los Angeles (Los Angeles, CA)	Southern Connecticut State University (New Haven, CT)
California State University, Sacramento (Sacramento, CA)	Southern Oregon University (Ashland, OR)
Campbellsville University (Campbellsville, KY)	Southwestern Oklahoma State University (Weatherford, OK)
Chaminade University of Honolulu (Honolulu, HI)	St. Edward's University (Austin, TX)
Christian Brothers University (Memphis, TN)	State University of New York at Brockport (Brockport, NY)
Citadel, The Military College of South Carolina, The (Charleston, SC)	State University of New York at New Paltz (New Paltz, NY)
	Stevenson University (Stevenson, MD)
Columbus State University (Columbus, GA)	Stockton University (Galloway, NJ)
Concordia University Chicago (River Forest, IL)	Suffolk University (Boston, MA)
Concordia University Nebraska (Seward, NE)	Sul Ross State University (Alpine, TX)
Concordia University Texas (Austin, TX)	SUNY College at Oswego (Oswego, NY)
CUNY Bernard M Baruch College (New York, NY)	SUNY Cortland (Cortland, NY)
Davenport University (Grand Rapids, MI)	SUNY-Buffalo State College (Buffalo, NY)
DeSales University (Center Valley, PA)	Texas A&M International University (Laredo, TX)
Eastern Illinois University (Charleston, IL)	Texas A&M University-San Antonio (San Antonio, TX)
Eastern Washington University (Cheney, WA)	University of Central Missouri (Warrensburg, MO)
Emporia State University (Emporia, KS)	University of Houston-Clear Lake (Houston, TX)
Endicott College (Beverly, MA)	University of Illinois Springfield (Springfield, IL)
Fairfield University (Fairfield, CT)	University of Michigan-Dearborn (Dearborn, MI)
Fontbonne University (Saint Louis, MO)	University of New Haven (West Haven, CT)
Framingham State University (Framingham, MA)	University of North Carolina at Pembroke (Pembroke, NC)
Georgia College & State University (Milledgeville, GA)	University of Northern Iowa (Cedar Falls, IA)
Governors State University (University Park, IL)	University of South Florida-St. Petersburg (St. Petersburg, FL)
Holy Family University (Philadelphia, PA)	University of Southern Maine (Portland, ME)
James Madison University (Harrisonburg, VA)	University of St. Thomas (Houston, TX)
Lenoir-Rhyne University (Hickory, NC)	University of Tampa, The (Tampa, FL)
Lewis University (Romeoville, IL)	University of Texas Permian Basin, The (Odessa, TX)
Manhattan College (Riverdale, NY)	University of West Florida, The (Pensacola, FL)
McKendree University (Lebanon, IL)	University of Wisconsin Oshkosh (Oshkosh, WI)
McNeese State University (Lake Charles, LA)	University of Wisconsin-La Crosse (La Crosse, WI)
Mercy College (Dobbs Ferry, NY)	University of Wisconsin-Platteville (Platteville, WI)
Midwestern State University (Wichita Falls, TX)	University of Wisconsin-Stout (Menomonie, WI)
Minnesota State University, Mankato (Mankato, MN)	University of Wisconsin-Whitewater (Whitewater, WI)
National University (La Jolla, CA)	Viterbo University (La Crosse, WI)
Neumann University (Aston, PA)	Wayland Baptist University (Plainview, TX)
New England College (Henniker, NH)	West Texas A&M University (Canyon, TX)
New York Institute of Technology (Old Westbury, NY)	Western Governors University (Salt Lake City, UT)
Newman University (Wichita, KS)	Western Oregon University (Monmouth, OR)
Nicholls State University (Thibodaux, LA)	William Paterson University of New Jersey (Wayne, NJ)
Northeastern Illinois University (Chicago, IL)	Xavier University (Cincinnati, OH)
Northeastern State University (Tahlequah, OK)	

Appendix B

CSU Comparison Universities

California State University-Bakersfield (Bakersfield, CA)
California State University-Dominguez Hills (Carson, CA)
California State University-Long Beach (Long Beach, CA)
California State University-Stanislaus (Turlock, CA)
California State University, Chico (Chico, CA)
California State University, Fullerton (Fullerton, CA)
California State University, Los Angeles (Los Angeles, CA)
California State University, Sacramento (Sacramento, CA)
San Francisco State University (San Francisco, CA)

All other NSSE 2019 and 2020 U.S. participants
View list at: https://nsse.indiana.edu/doc/nsse2019and2020.docx