Report of NSSE 2020 Results on Institutional-Level Competencies at the University of Hawai'i at Mānoa

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Executive Summary

This report analyzes the results of the National Survey of Student Engagement (NSSE), administered in spring 2020 at the University of Hawai'i at Mānoa (UHM), with a high response rate of 52%. A total of 870 undergraduate freshmen and 1694 undergraduate seniors responded to the survey. The NSSE data is a valuable source of indirect evidence of student learning.

This study examines the difference between freshman and senior respondents' 2020 NSSE results and the difference between the 2015 and 2020 NSSE senior respondents' results related to four out of <u>five WASC core competencies</u> and <u>UHM undergraduate Institutional Learning Objectives</u> (ILOs), all referred to as competencies below. Similar competencies will be referred to as competency areas.

Main findings include:

- 1. The competency scores were higher for the 2020 seniors than 2020 freshmen on all but one competency. Competency scores for 2020 and 2015 seniors were similar, with 2020 seniors' scores slightly higher on most competencies.
- 2. Two competency areas that demonstrated the greatest educational impact were *conducting research* and *communication*, including both *oral* and *written communication*. The 2020 senior respondents had the greatest increase in competency scores over the freshmen in these two areas.
- 3. In addition, two ILOs Respect for people and cultures (ILO 3b) and Continuous learning and personal growth (ILO 3a) had high competency scores.
- 4. Quantitative reasoning (WASC) and Think critically and creatively (ILO 2a) were two competencies in which UHM student respondents (2015 seniors, 2020 seniors, and 2020 freshmen) scored significantly lower than those from peer institutions on half or more of the items under these competencies.
- 5. 2020 seniors and freshmen had statistically significantly lower mean scores than those from peer institutions on half or more of the items related to *Stewardship of the natural environment* (ILO 3c).
- 6. The results related to civic learning were somewhat divergent. While both 2015 and 2020 seniors scored higher on most items related to *Civic participation in communities* (ILO 3d) than peers, our 2020 respondents, both seniors and freshmen, scored lower than peers on selected items in the *Civic Engagement* module, a separate module from the 2020 NSSE main survey. It is possible that UHM

seniors participated in civic life more through service-learning and volunteering than in activities that exercise social and civic influence such as organizing others to work on state, national, or global issues.

7. UHM students experienced substantial personal and academic growth reflected in individual survey items that address research, field experience, participation in the community, student leadership, interaction with faculty, communication skills, collaboration in groups and projects, and combining ideas from multiple courses.

Background and Definition of Terms

The National Survey of Student Engagement (NSSE) is a major national survey used for higher education institutions to gauge undergraduate students' engagement. The University of Hawai'i at Mānoa (UHM) administers the NSSE every few years and has been using the data at both the institutional and program level. Chen (2020), Hill (2020), Pascua (2020), and Pearson (2020) illustrated how UHM has used NSSE results to support the work of different units and institutional accreditation. The NSSE administered in 2015 and in 2020 enjoyed high response rates, 32% and 52%, respectively. A total of 870 undergraduate freshmen and 1694 undergraduate seniors responded to the 2020 NSSE.

Selected NSSE Items as Learning Evidence

The <u>NSSE</u> in general consists of two types of questions: (1) student efforts and activities and (2) institutional resources and learning opportunities. Even though UHM values direct assessment of student learning through evaluation of student products and performances, NSSE items that capture students' self-reported academic efforts, participation in activities, and self-assessment of their abilities are valuable as **indirect** evidence of learning because they reflect students' knowledge, skills, and dispositions. UHM needs data and results on institutional-level competencies that include:

- Western Association of Schools and Colleges (WASC) Senior College and University Commission (WSCUC) core competencies, specified in its 2013 Handbook of Accreditation under <u>Standard 4 and criteria CFR2.2a</u>, which include:
 - 1) Written communication
 - 2) Oral communication
 - 3) Quantitative reasoning
 - 4) Information literacy
 - 5) Critical thinking
- 2. UHM Undergraduate Institutional Learning Objectives (ILOs), which include:
 - 1) Know Breadth and depth of knowledge

- a. General education (ILO 1a)
- b. Specialized study in an academic field (ILO 1b)
- c. Understand Hawaiian culture and history (ILO 1c)
- 2) Do Intellectual and practical skills
 - a. Think critically and creatively (ILO 2a)
 - b. Conduct research (ILO 2b)
 - c. Communicate and report (ILO 2c)
- 3) Value Personal and social responsibility
 - a. Continuous learning and personal growth (ILO 3a)
 - b. Respect for people and cultures (ILO 3b)
 - c. Stewardship of the natural environment (ILO 3c)
 - d. Civic participation in their communities (ILO 3d)

The NSSE includes a main survey and separate topical modules that institutions can select from, such as *Information Literacy*, *Diversity*, *Civic Engagement*, and *Sustainability*. In 2017, an expert panel, the ILO Implementation Committee (ILOIC), identified the relevant items on the 2015 NSSE main survey and the Information Literacy and Diversity modules that aligned with the five WASC core competencies and six out of ten ILOs (2a, 2b, 2c, 3a, 3b, and 3d). See a detailed description of the methodology in Hill (2019). This analysis includes data from 42 out of 117 items on the 2020 NSSE main survey which were identified as relevant for indirect learning assessment. The 2020 NSSE did not include the Information Literacy and Diversity modules. Since all items related to the WASC competency *Information literacy* were on the 2015 NSSE Information Literacy module, we did not have data to assess this competency in the 2020 NSSE.

The 2020 NSSE provided additional data to assess civic learning and *Stewardship of the natural environment* (ILO 3c) through its *Civic Engagement* and *Sustainability* modules. To assess these two competency areas, we selected the items that reflect students' self-assessment of their effort, activity, and ability – 14 from the *Civic Engagement* module and 11 from the *Sustainability* module. We treat *Civic engagement* as a separate competency from *Civic participation in their communities* (ILO 3d), as engagement does not necessarily imply participation, but it is a very important aspect of civic learning that UHM emphasizes and it is related to ILO 3d.

In summary, this analysis includes relevant NSSE items to assess four out of five WASC core competencies (excluding *Information literacy*) and seven out of ten ILOs (all ILOs under *Do* and *Value*, 2a to 2c and 3a to 3d). The included NSSE items are in Appendix A and Appendix B.

Key Terms and Definitions

This report uses the word **competency** as a broad reference to the WASC core competencies, UHM Undergraduate ILOs, and other learning areas of interest (e.g., civic engagement). Each survey item has an **outcome score**, which is defined as the proportion of the students who reported frequent participation (by choosing *Often* or *Very often* response options) or substantial learning (by choosing *Quite a bit* or *Very much* or equivalent response options). Appendix A lists all competencies, the aligned items under each competency, the response options that count towards frequent participation or substantial learning, the proportion of the students who reported frequent participation or substantial learning, i.e., the item outcome score, and peer comparison results for the 2020 NSSE freshmen and senior respondents. Appendix B lists the same information for the 2015 and 2020 NSSE senior respondents.

To form a big picture of how well each competency was achieved, we calculated the **competency score**, defined as the median outcome score on all the items aligned with a particular competency, which represents the median proportion of the respondents who claimed frequent participation or substantial learning on the competency-aligned NSSE items.

The undergraduate senior respondents will be referred to as seniors and the undergraduate freshmen respondents will be referred to as freshmen in this report.

Three indicators can help reveal the level of competency achievement and the impact of the educational experience on UHM students.

- 1. Competency score. A high competency score represents a high proportion of respondents who reported frequent participation or substantial learning on a median item. However, since some tasks (e.g., writing a long paper) are inherently harder to achieve than others (e.g., writing a short paper), we need to adjust our own expectations in terms of what counts as a high competency score. For example, 24% sounds like a low competency score, but when used to represent *Conduct research* (ILO 2b), it implies that about a quarter of the UHM seniors reported that they conducted or were conducting a research project, which is a respectable result.
- 2. Comparison with peers. The NSSE provides the item mean score and how it compares with the score from peer institutions. Regardless of the competency scores, if an item or a competency was significantly different from our peers, it reflects differential educational impact between UHM and peer institutions. Excise caution in interpreting the peer comparison data because the 2020 NSSE used three different peer groups for three different survey modules: the main survey (the 7-institution peer

group was consistent across years), the *Sustainability* module (with 8 comparison institutions, mostly liberal arts colleges), and the *Civic Engagement* module (with 94 institutions in the comparison group).

3. **Comparison between seniors and freshmen**. A substantially higher competency score for seniors than for freshmen indicates the positive impact of the educational experience on students' competency development. A similar competency score between the two groups indicates that both groups had similar learning achievements but there is a lack of growth between the freshman and senior years.

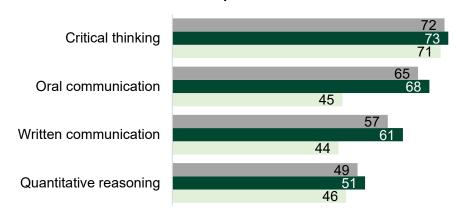
Major Findings

Figure 1. presents the competency scores between 2015 seniors, 2020 seniors, and 2020 freshmen on each competency and how the majority of the items compare with peers. Detailed item outcome scores for seniors and freshmen are in Appendix A.

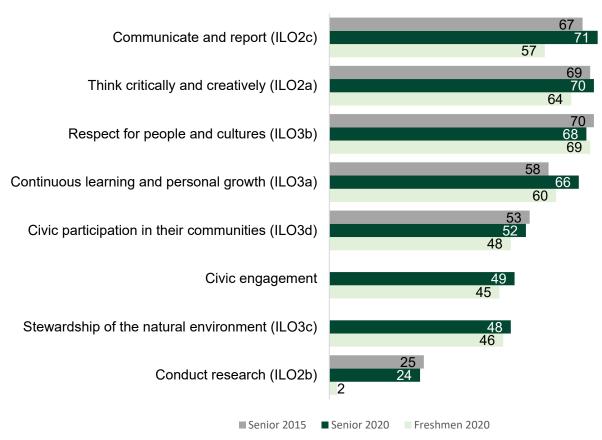
Table 1 lists the competencies assessed on the 2020 NSSE; the number of items included under each competency; the competency scores for 2015 seniors, 2020 seniors, and 2020 freshmen; the number of respondents for each group; and how half or more of the included items compare with our peer institutions in item mean scores for each group. The results were organized by 2020 seniors' competency scores in descending order.

Figure 1
Competency scores are higher for 2020 Seniors than for 2015 seniors and 2020 freshmen overall

WASC Core Competencies



Institutional Learning Objectives



Note: Competency scores range from 0 to 100.

Table 1

Competency Scores and Peer Comparison Results for NSSE 2015 Seniors. 2020 Seniors. and 2020 Freshmen

Competency Scores and Peer C			Competency Sco	,	,					
WASC Competencies and ILOs	Number of Items	who Repo or S	ercentage of Re rted Frequent Pa Substantial Learr	articipation ning)			spondents	Com	r Majority pared wit	n Peers
		2015 Seniors	2020 Seniors	2020 Freshmen	2015 Seniors	2020 Seniors	2020 Freshmen	2015 Seniors	2020 Seniors	2020 Freshmen
		Seniors		competencies		Seriors	Fresiiiieii	Seniors	Selliois	Fresimen
Critical thinking	8	72	73	71	1185- 1303	1576- 1673	774-845	Lower		
Oral communication	2	65	68	45	1185- 1311	1577- 1675	773-856	Higher	Higher	
Written communication	4	57	61	44	1154- 1192	1579- 1605	772-802	Higher	Higher	
Quantitative reasoning	4	49	51	46	1189- 1295	1578- 1609	770-802	Lower	Lower	Lower
			Institutional L	earning Obje						
Communicate and report (ILO 2c)	8	67	71	57	1154- 1315	1575- 1676	771-857	Higher	Higher	
Think critically and creatively (ILO 2a)	12	69	70	64	1185- 1303	1576- 1673	770-845	Lower	Lower	Lower
Respect for people and cultures (ILO 3b)	8	70	68	69	1190- 1297	1579- 1665	774-845	Higher		Higher
Continuous learning and personal growth (ILO 3a)	7	58	66	60	1189- 1295	1577- 1658	772-845			
Civic participation in their communities (ILO 3d)	6	53	52	48	1185- 1298	1575- 1668	776-847	Higher	Higher	
Civic engagement (related to ILO 3d)	15	N/A	49	45	N/A	1544- 1569	755-769	N/A	Lower	Lower
Stewardship of the natural environment (ILO 3c)	11	N/A	48	46	N/A	1462- 1488	694-709	N/A	Lower	Lower
Conduct research (ILO 2b)	8	25	24	2	1236- 1236	1576- 1576	787-787	Higher		Lower

WASC Core Competencies Results

Among all the WASC competencies:

- Critical thinking had the highest competency scores for both freshmen (71%) and seniors (73%). The
 difference in competency scores between the 2020 seniors and freshmen was minimal. While the 2015
 seniors scored lower than peers on half or more of the items in this competency, the 2020 seniors'
 scores were comparable with peers for the most part.
- 2. *Oral communication* and *Written communication* competencies enjoyed the greatest increase in competency scores from freshmen to seniors.
 - a. A median of 68% of the 2020 seniors claimed frequent participation or substantial learning on *Oral communication* (number of items = 2), 51% higher than the 2020 freshmen (at 45%).
 - b. A median of 61% of the 2020 seniors reported frequent participation or substantial learning on Written communication (number of items = 4), 39% higher than the 2020 freshmen (at 44%). Furthermore, the 2020 freshmen scored significantly lower than those from peer institutions on half or more Written communication items, whereas the 2020 seniors scored significantly higher, indicating a substantial positive impact of the educational experience on students' written communication development.
- Quantitative Reasoning had the lowest competency score. The item mean scores on most items under this competency were significantly lower than those of peers for all three cohorts.

UHM ILOs Results

- 1. The 2020 seniors had the highest competency scores in *Communicate and report* (ILO 2c) at 71%, Think critically and creatively (ILO 2a) at 70%, Respect for people and cultures (ILO 3b) at 68%, and Continuous learning and personal growth (ILO 3a) at 66%. However, the mean scores on most of the items under *Think critically and creatively* (ILO 2a) were significantly lower than peers.
- 2. Seniors (24%) had an 11-fold increase over freshmen (2%) in *Conduct research* (ILO 2b). While freshmen's item mean score was significantly lower than peers, seniors caught up, and their mean score was comparable with that of peers.
- 3. In Communicate and report (ILO 2c), Continuous learning and personal growth (ILO 3a), and Think critically and creatively (ILO 2a), we also observed substantial increases in seniors' competency scores over the freshmen's scores, an increase of 25% (71% vs. 57% in ILO 2c), 10% (66% vs. 60% in ILO 3a), and 9% (70% vs. 64% in ILO 2a), respectively. In addition, seniors' mean item scores under Communicate and report (ILO 2c) on five out of eight items were significantly higher than those of peers (See Appendix A).

- 4. The 2020 NSSE presented somewhat divergent results on the items related to civic learning. While both 2015 and 2020 seniors scored higher on most items related to Civic participation in their communities (ILO 3d) than peers, our 2020 respondents, both seniors and freshmen, scored lower than peers on Civic engagement items included in the Civic Engagement module. The reasons are multifold:
 - a. First, the peer comparison groups were different for different NSSE items. The 2020 NSSE main survey's peer comparison group consisted of seven large comprehensive public state universities. (See the list here.) The Civic participation in their communities (ILO 3d) items were from the main survey. On the other hand, the comparison group used for the Civic engagement items was all participating institutions of the Civic Engagement module in 2020, which consisted of 94 institutions of a variety of sizes, roles, and scopes.
 - b. Second, the nature of the questions is different. In the Civic Engagement module, the items on which our students scored lower were mostly about dealing with disagreements/conflicts [e.g., Help people resolve their disagreements with each other (CE 1a) and Resolve conflicts that involve bias, discrimination, and prejudice (CE 1b)] and about functioning as a social activist to influence others [e.g., Raised awareness about campus or local issues (CE 4e) and Organized others to work on state, national, or global issues (CE 4j)].
 - c. The items on which 2020 seniors scored higher than peers in Civic participation in their communities (ILO 3d) were about one's own actions: Connecting learning to societal problems or issues (2b), Taking service-learning courses (12), and Doing community service or volunteer work (16e). (See Appendix A.) The UHM seniors may have conducted civic actions more in the areas of participating in civic life through service-learning and volunteering than in activities that exercise social and civic influence.
- 5. Stewardship of the natural environment (ILO 3c) had a relatively low competency score at 48% for 2020 seniors. The difference between 2020 freshmen (46%) and 2020 seniors (48%) was minimal. Both 2020 seniors and 2020 freshmen had lower item mean scores than peers on half or more of the items related to this competency. Even though the comparison groups are mostly liberal arts colleges, this competency is still an area that can use improvement.

Overall Results

The WASC core competencies overlap with the ILOs. For example, *Communication and report* (ILO 3c) includes all the items under *Written communication* and *Oral communication* WASC competencies. This section summarizes the results by competency area, consolidating the findings from the WASC competencies and ILOs. In addition, to further examine the impact of the UHM educational experience, we identified all the items that showed a substantial increase, defined as a 20% or greater increase in 2020 seniors' scores in

comparison with the 2020 freshmen's scores. Table 2 is ordered from the competency with items that showed the greatest increase to the least. Detailed results on outcomes scores and the amount of increase for each item are in Appendix A.

Table 2
NSSE Items Demonstrating Greatest Score Increases of 2020 Seniors over Freshmen

Competency	Item	Score Increase of 2020 Seniors over Freshmen
Conduct research (ILO 2b)	Work with a faculty member on a research project (11e)	1100%
Civic participation in their communities (ILO 3d)	Participate in an internship, co-op, field experience, student teaching, or clinical placement (11a)	571%
	About how many of your courses at this institution have included a community-based project (service-learning)? (12)	44%
	Doing community service or volunteer work (16e)	20%
Continuous learning and personal growth (ILO 3a)	Hold a formal leadership role in a student organization or group (11b)	417%
	Discussed course topics, ideas, or concepts with a faculty member outside of class (3c)	53%
	Talked about career plans with a faculty member (3a)	24%
Respect for people and cultures (ILO 3b)	Participate in a study abroad program (11d)	333%
Communication		
 Communication— 	11 pages or more writing tasks have been assigned (7c)	189%
Written (WASC, ILO	Between 6 and 10 pages writing tasks have been assigned (7b)	79%
2c)	Writing clearly and effectively (18a)	20%
 Communication— 	Given a course presentation (1h)	91%
Oral (WASC, ILO 2c)	Speaking clearly and effectively (18b)	27%
 Communication— Interactive (ILO 2c) 	Worked with other students on course projects or assignments (1g)	20%
Critical thinking (WASC)	Combined ideas from different courses when completing assignments (2a)	25%
Stewardship of the natural environment (ILO 3c)	Acquiring skills to lead or facilitate group activities (SUS5b)	23%

Major overall findings are:

- The competency scores were higher for the 2020 seniors than 2020 freshmen on all but one competency. Competency scores for 2020 and 2015 seniors were similar, with 2020 seniors' scores slightly higher on most competencies.
- 2. The two competency areas that demonstrated the greatest educational impact are in *conducting* research and *communication*.
 - a. Conduct research (ILO 2b) enjoyed the greatest increase in competency scores from freshmen to seniors. 2020 seniors' competency score (24%) was 12-fold that of the freshmen (2%), presenting an increase of 1100% from freshmen to seniors. There was only one NSSE item used to assess this competency: Work with a faculty member on a research project (11e).

- b. Oral communication and Written communication WASC competencies and Communicate and report (ILO 2c) also observed substantial increases in competency scores from freshmen to seniors.
 - i. 2020 seniors' *Oral communication* competency score (68%) was 51% higher than that of the 2020 freshmen at 45%. There are two NSSE items under this competency:
 - 1. Given a course presentation (1h)
 - 2. Speaking clearly and effectively (18b)

2020 seniors scored substantially higher (more than 20%) than 2020 freshmen on these two items, by 91% and 27%, respectively (See Appendix A.) The item mean scores for 2015 and 2020 seniors were significantly higher than those of peers.

- ii. 2020 seniors' *Written communication* (WASC) competency score (61%) was 39% higher than freshmen's score (44%). In particular, 2020 seniors scored substantially higher than 2020 freshmen on 3 items:
 - 1. 11 pages or more writing tasks have been assigned (7c), by 189%
 - 2. Between 6 and 10 pages writing tasks have been assigned (7b), by 79%
 - 3. Writing clearly and effectively (18a), by 20%

Three out of four items under this competency had statistically significantly higher mean scores than those of peers.

- iii. 2020 seniors' Communicate and report (ILO 2c) competency score (71%) was 25% higher than the freshmen's score (57%). Items related to this competency include all items under WASC Written communication and Oral communication items. In addition to the items that 2020 seniors scored substantially higher on than 2020 freshmen mentioned above, 2020 seniors scored 20% higher on Worked with other students on course projects or assignments (1g) than 2020 freshmen. Five out of eight Communicate and report (ILO 2c) items had statistically significantly higher mean scores for 2020 seniors than peers.
- iv. Seniors' competency scores related to communication were consistent across 2015 and 2020 NSSE administrations, with 2020 seniors' scores slightly higher than 2015 seniors.
- 3. Respect for people and cultures (ILO 3b) and Continuous learning and personal growth (ILO 3a) had high competency scores at 68% and 66%, respectively. Under Respect for people and cultures (ILO 3b), 2020 seniors scored substantially higher than 2020 freshmen by 333% on Participate in a study abroad program (11d). Under Continuous learning and personal growth (ILO 3a), 2020 seniors scored substantially higher than 2020 freshmen on three items:
 - Hold a formal leadership role in a student organization or group (11b), by 417%

- Discussed course topics, ideas, or concepts with a faculty member outside of class (3c), by 53%
- Talked about career plans with a faculty member (3a), by 24%
- 4. Quantitative reasoning (WASC) and Think critically and creatively (ILO 2a) were the areas in which three cohorts of the students in this study scored lower than peers on half or more of the items under these competencies. 2020 seniors scored substantially higher than 2020 freshmen only on one item: Combined ideas from different courses when completing assignments (2a), by 25%.
- 5. 2020 seniors and freshmen had statistically significantly lower mean scores than peers on half or more of the items under *Civic engagement* and *Stewardship of the natural environment* (ILO 3c). However, 2020 seniors still scored substantially higher than 2020 freshmen on one item under ILO 3c: Acquiring skills to lead or facilitate group activities (SUS 5b).
- 6. The results on outcomes related to civic learning were divergent. While three out of six *Civic participation in their communities* (ILO 3d) items had higher item mean scores than those of peers, eight out of fifteen *Civic engagement* items had statistically significantly lower scores than those of peers. The UHM seniors may have conducted civic actions more in the areas of participating in civic life through service-learning and volunteering than in activities that exercise social and civic influence (e.g., *Organized others to work on state, national, or global issues*). 2020 seniors scored substantially higher than 2020 freshmen on three items under *Civic participation in their communities* (ILO 3d):
 - a. Participate in an internship, co-op, field experience, student teaching, or clinical placement (11a), by 571%
 - b. About how many of your courses at this institution have included a community-based project (service-learning)? (12), by 44%
 - c. Doing community service or volunteer work (16e), by 20%

Conclusion

To conclude, the NSSE results, in general, suggest a positive impact of UHM's educational experience, especially on the following competency areas: conducting research, communication, continuous learning and personal growth, and participating in community. When looking at specific items, 2020 seniors scored much higher on the items related to research (11e), field experience (11a and 11d), participation in the community (12 and 16e), student leadership (11b), interaction with faculty (3a and 3c), communication skills (1g, 1h, 1b, 7c, 18a, and 18b), collaboration in groups and projects (1g and SUS 5b), and combining ideas from multiple courses (2a). These items indicate that UHM students experienced substantial personal and academic growth. UHM students can benefit from increased learning opportunities in the areas of quantitative reasoning, critical thinking, and sustainability. UHM also should consider establishing standards for item outcomes scores and competency scores, thus creating expectations to aid data interpretation and use.

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Appendix A. University of Hawai'i at Mānoa 2020 Freshmen and Seniors' NSSE Results Comparison Related to WASC Core Competencies and Institutional Learning Objectives (ILOs) for Undergraduate Students

Each table contains the NSSE results from the responding seniors and freshmen in the 2020 NSSE administration. Each table includes the percentages of the undergraduate senior and freshman respondents who reported frequent activity participation or substantial learning, mean item scores, items with significant differences when compared to our peer institutions, and the percentage of increase in item scores from freshman to senior respondents. The notation ∇ represents that UHM's results were significantly lower than the results from the peer institutions, and the notation \triangle represents that UHM's results were significantly higher. Only items on the 2020 NSSE were included in this table.

WASC Core Competencies Results

Critical Thinking

			Freshme	n		Senio	rs	%
								Increase
								from
	Responses			VS.			VS.	Freshmen
Item Description	Included	%	Mean	Peer	%	Mean	Peer	to Seniors
Combined ideas from different courses when	Often/ Very	55	2.6		69	2.9		25
completing assignments (2a)	Often							
Applying facts, theories, or methods to	Quite a bit/	70	2.9	∇	75	3.0		7
practical problems or new situations (4b)	Very much							
Analyzing an idea, experience, or line of	Quite a bit/	72	2.9		74	3.0		3
reasoning in depth by examining its parts (4c)	Very much							
Evaluating a point of view, decision, or	Quite a bit/	71	2.9		71	3.0		0
information source (4d)	Very much							
Forming a new idea or understanding from	Quite a bit/	69	2.9		71	2.9		3
various pieces of information (4e)	Very much							
Identified key information from reading	Often/ Very	75	3.0		77	3.1		3
assignments (9a)	Often							
Thinking critically and analytically (18c)	Quite a bit/	74	3.0		82	3.2	∇	11
	Very much							
Solving complex real-world problems (18i)	Quite a bit/	55	2.6		62	2.8		13
	Very much							

Oral Communication

			Freshme	n		Senior	S	%
								Increase
								from
	Responses			VS.			VS.	Freshmen
Item Description	Included	%	Mean	Peer	%	Mean	Peer	to Seniors
Given a course presentation (1h)	Often/ Very	34	2.2		70	2.9		106
	Often							
Speaking clearly and effectively (18b)	Quite a bit/	55	2.6		65	2.9		18
	Very much							

Quantitative Reasoning

			Freshme	n		Senior	rs .	%
								Increase
								from
	Responses			VS.			VS.	Freshmen
Item Description	Included	%	Mean	Peer	%	Mean	Peer	to Seniors
Reached conclusions based on your own	Often/ Very	49	2.5	∇	56	2.6	∇	14
analysis of numerical information (numbers,	Often							
graphs, statistics, etc.) (6a)								
Used numerical information to examine a real-	Often/ Very	43	2.4		45	2.4	∇	5
world problem or issue (unemployment, climate	Often							
change, public health, etc.) (6b)								
Evaluated what others have concluded from	Often/ Very	42	2.3	∇	44	2.4	∇	5
numerical information (6c)	Often							
Analyzing numerical and statistical information	Quite a bit/	58	2.7	∇	67	2.9	∇	16
(18d)	Very much							

Written Communication

			Freshme	n		Senio	rs	%
								Increase
								from
	Responses			VS.			VS.	Freshmen
Item Description	Included	%	Mean	Peer	%	Mean	Peer	to Seniors
Up to 5 pages of writing tasks have been	3-5/6-10/11-	75	6.8		82	2.7		9
assigned (7a)	15/16-20/							
	More than							
	20							
Between 6 and 10 pages of writing tasks have	3-5/6-10/11-	28	2.5		50	4.5	A	79
been assigned (7b)	15/16-20/							
	More than							
	20							
11 pages or more of writing tasks have been	3-5/6-10/11-	9	1.0		26	8.8	A	24
assigned (7c)	15/16-20/							
	More than							
	20							
Writing clearly and effectively (18a)	Quite a bit/	59	2.7		71	2.9		20
	Very much							

Institutional Learning Outcomes Results

ILO 2a: Think Critically and Creatively

			Freshm	en		Senior	'S	% Increase
								from
	Responses			VS.			VS.	Freshmen
Item	Included	%	Mean	Peer	%	Mean	Peer	to Seniors
Combined ideas from different courses when	Often/ Very	55	2.6		69	2.9		25
completing assignments (2a)	Often							
Applying facts, theories, or methods to	Quite a bit/	70	2.9	∇	75	3.0		7
practical problems or new situations (4b)	Very much							
Analyzing an idea, experience, or line of	Quite a bit/	72	2.9		74	3.0		3
reasoning in depth by examining its parts (4c)	Very much							
Evaluating a point of view, decision, or	Quite a bit/	71	2.9		71	3.0		0
information source (4d)	Very much							
Forming a new idea or understanding from	Quite a bit/	69	2.9		71	2.9		3
various pieces of information (4e)	Very much							
Reached conclusions based on your own	Often/ Very	49	2.5	∇	56	2.6	∇	14
analysis of numerical information (numbers,	Often							
graphs, statistics, etc.) (6a)								
Used numerical information to examine a real-	Often/ Very	43	2.4	∇	44	2.4	∇	2
world problem or issue (unemployment, climate	Often							
change, public health, etc.) (6b)								
Evaluated what others have concluded from	Often/ Very	42	2.3	\vee	45	2.4	∇	7
numerical information (6c)	Often							
Identified key information from reading	Often/ Very	75	3.0		77	3.1		3
assignments (9a)	Often							
Thinking critically and analytically (18c)	Quite a bit/	74	3.0		82	3.2	∇	11
	Very much							
Analyzing numerical and statistical information	Quite a bit/	58	2.7	\vee	67	2.9	∇	16
(18d)	Very much							
Solving complex real-world problems (18i)	Quite a bit/	55	2.6		62	2.8		13
	Very much							

ILO 2b: Conduct Research

			Freshm	en		Senior	s	% Increase
								from
	Responses			VS.			VS.	Freshmen
Item	Included	%	Mean	Peer	%	Mean	Peer	to Seniors
Work with a faculty member on a research	Done or In	2	0.20	∇	24	0.24		1100
project (11e)	Progress							

ILO 2c: Communicate and Report

			Freshm	en		Senior	S	% Increase
								from
	Responses			VS.			VS.	Freshmen
Item	Included	%	Mean	Peer	%	Mean	Peer	to Seniors
Worked with other students on course projects	Often/ Very	59	2.7		71	3.0		20
or assignments (1g)	Often							
Given a course presentation (1h)	Often/ Very	34	2.2		65	2.9		91
	Often							
Up to 5 pages of writing tasks have been	3-5/6-10/11-	75	6.8		82	8.8		9
assigned (7a)	15/16-							
	20/More							
	than 20							
Between 6 and 10 pages writing tasks have	3-5/6-10/11-	28	2.5		50	4.5	A	79
been assigned (7b)	15/16-							
	20/More							
	than 20							
11 pages or more writing tasks have been	3-5/6-10/11-	9	1.0		26	2.7	A	189
assigned (7c)	15/16-							
	20/More							
	than 20							
Writing clearly and effectively (18a)	Quite a bit/	59	2.7		71	2.9		20
	Very much							
Speaking clearly and effectively (18b)	Quite a bit/	55	2.6		70	2.9		27
	Very much							
Working effectively with others (18f)	Quite a bit/	65	2.8		74	3.0		14
	Very much							

ILO 3a: Continuous Learning and Personal Growth

			Freshm	en		Senior	s	% Increase
								from
	Responses			VS.			VS.	Freshmen
Item	Included	%	Mean	Peer	%	Mean	Peer	to Seniors
Examined the strengths and weaknesses of	Often/ Very	66	2.8		66	2.8		0
your own views on a topic or issue (2d)	Often							
Learned something that changed the way you	Often/ Very	72	2.9		75	3.0		4
understand an issue or concept (2f)	Often							
Connected ideas from your courses to your	Often/ Very	81	3.1	A	83	3.2		2
prior experiences and knowledge (2g)	Often							
Talked about career plans with a faculty	Often/ Very	34	2.3	∇	42	2.4		24
member (3a)	Often							
Discussed course topics, ideas, or concepts	Often/ Very	19	1.9	∇	29	2.1		53
with a faculty member outside of class (3c)	Often							
Hold a formal leadership role in a student	Done or In	6	6%	∇	31	0.31	\bigvee	417
organization or group (11b)	Progress							
Developing or clarifying a personal code of	Quite a bit/	60	2.7		66	2.9		10
values and ethics (18g)	Very much							

ILO 3b: Respect for People and Cultures, in Particular Hawaiian Culture

			Freshm	en		Senior	S	% Increase
								from
	Responses			VS.			VS.	Freshmen
Item	Included	%	Mean	Peer	%	Mean	Peer	to Seniors
Included diverse perspectives (political,	Often/ Very	56	2.7	A	53	2.6	A	-5
religious, racial/ethnic, gender, etc.) in course	Often							
discussions or assignments (2c)								
Tried to better understand someone else's	Often/ Very	76	3.0	A	73	3.0	A	-4
views by imagining how an issue looks from his	Often							
or her perspective (2e)								
Discuss with people of a race or ethnicity other	Often/ Very	82	3.3		81	3.3		-1
than your own (8a)	Often							
Discuss with people from an economic	Often/ Very	75	3.1		75	3.1		0
background other than your own (8b)	Often							
Discuss with people with religious beliefs other	Often/ Very	70	3.0	∇	67	3.0		-4
than your own (8c)	Often							
Discuss with people with political views other	Often/ Very	56	2.7	∇	57	2.8	∇	2
than your own (8d)	Often							
Participate in a study abroad program (11d)	Done or In	3	3%		13	0.13		333
	Progress							
Understanding people of other backgrounds	Quite a bit/	68	2.9		69	2.9		1
(economic, racial/ethnic, political, religious,	Very much							
nationality, etc.) (18h)								

ILO 3c. Stewardship of the Natural Environment (Data from NSSE 2020 Sustainability Education Consortium)

			Freshm	en		Senio	rs	% Increase
								from
	Responses			VS.			VS.	Freshmen
Item	Included	%	Mean	Peer	%	Mean	Peer	to Seniors
Completed an assignment that evaluates the	Often/Very	40	2.3	∇	41	2.3	∇	2
sustainability of some activity (SUS1a)	often							
Made significant contributions in a group	Often/Very	70	2.9	∇	78	3.2	∇	12
project (SUS1b)	often							
Integrated knowledge from multiple academic	Often/Very	62	2.7	∇	69	2.9	∇	12
disciplines in working on a project (SUS1c)	often							
Completed an assignment that evaluates our	Often/Very	46	2.4		48	2.5		3
responsibilities to future generations (SUS1d)	often							
Articulating a vision of a just and sustainable	Quite a	44	2.4	∇	45	2.5	∇	1
society (SUS5a)	bit/Very							
	much							
Acquiring skills to lead or facilitate group	Quite a	43	2.4	∇	53	2.6	∇	23
activities (SUS5b)	bit/Very							
	much							
Understanding the consequences of your	Quite a	65	2.8		60	2.8	∇	-7
choices (SUS5c)	bit/Very							
	much							
Understanding the economic dimensions of	Quite a	46	2.4	∇	47	2.5		2
sustainability (SUS5d)	bit/Very							
	much							
Acquiring the skills to help organizations	Quite a	40	2.3	∇	44	2.4		9
become more sustainable (SUS5e)	bit/Very							
	much							
Understanding issues of social justice (SUS5f)	Quite a	45	2.4	∇	44	2.4	∇	-2
	bit/Very							
	much							
Persevering in achieving long-term goals	Quite a	55	2.6	∇	55	2.6	∇	0
despite adversity (SUS5g)	bit/Very							
	much							

ILO 3d: Civic Participation in Their Communities

			Freshm	en		Senior	rs .	% Increase
								from
	Responses			VS.			VS.	Freshmen
Item	Included	%	Mean	Peer	%	Mean	Peer	to Seniors
Connected your learning to societal problems	Often/ Very	54	2.6		60	2.8		11
or issues (2b)	Often							
Participate in an internship, co-op, field	Done or In	7	8%		47	0.47		571
experience, student teaching, or clinical	Progress							
placement (11a)								
About how many of your courses at this	Most/All	9	1.7	A	13	1.8		44
institution have included a community-based								
project (service-learning)? (12)								
Participating in co-curricular activities	1-5 hrs/	56	4.3	∇	54	4.8		0
(organizations, campus publications, student	/26-30 hrs/							
government, fraternity or sorority,	More than							
intercollegiate or intramural sports, etc.) (16b)	30 hours							
Doing community service or volunteer work	1-5 hrs/	41	2.5		49	3.5		20
(16e)	/26-30 hrs/							
	More than							
	30 hours							
Being an informed and active citizen (18j)	Quite a bit/	55	2.6		54	2.6		-2
	Very much							

Civic Engagement Skills from NSSE 2020 Civic Engagement Module

			Freshm	en		Senio	S	% Increase
								from
	Responses			VS.			VS.	Freshmen
Item	Included	%	Mean	Peer	%	Mean	Peer	to Seniors
Help people resolve their disagreements with	4/5(Excellen	56	3.6	∇	60	3.7	∇	7
each other (CE 1a)	t)							
Resolve conflicts that involve bias,	4/5	45	3.4	∇	49	3.5	∇	9
discrimination, and prejudice (CE 1b)	(Excellent)							
Lead a group in which people from different	4/5	57	3.6		66	3.8	∇	16
backgrounds feel welcomed and included (CE	(Excellent)							
1c)								
Participate in a constructive dialogue with	4/5	54	3.6	∇	58	3.7	∇	7
someone who disagrees with you (CE 1d)	(Excellent)							
Contribute to the well-being of your community	4/5	57	3.6	∇	66	3.8	∇	16
(CE 1e)	(Excellent)							
Informed yourself about campus or local issues	Often/Very	55	2.6		50	2.6		-9
(CE 4a)	often							
Informed yourself about state, national, or	Often/Very	60	2.7		64	2.9	∇	7
global issues (CE 4b)	often							
Discussed campus or local issues with others	Often/Very	45	2.5		45	2.5		0
(CE 4c)	often							
Discussed state, national, or global issues with	Often/Very	51	2.6		53	2.7	∇	4
others (CE 4d)	often							
Raised awareness about campus or local	Often/Very	22	1.9	∇	26	2.0		18
issues (CE 4e)	often							
Raised awareness about state, national, or	Often/Very	25	2.0	∇	29	2.1	∇	16
global issues (CE 4f)	often							
Asked others to address campus or local	Often/Very	19	1.7	∇	19	1.8		0
issues (CE 4g)	often							
Asked others to address state, national, or	Often/Very	20	1.7	∇	21	1.8	∇	5
global issues (CE 4h)	often							
Organized others to work on campus or local	Often/Very	14	1.5	∇	14	1.6		0
issues (CE 4i)	often							
Organized others to work on state, national, or	Often/Very	14	1.5	∇	14	1.6		0
global issues (CE 4j)	often							

Appendix B. University of Hawai'i at Mānoa 2015 to 2020 NSSE Results Comparison Related to the WASC Core Competencies and Institutional Learning Objectives (ILOs) for Undergraduate Students

Each table contains the NSSE results from the responding seniors in the 2015 and 2020 NSSE administrations. Each table includes the percentages of the undergraduate senior respondents who reported frequent activity participation or substantial learning, mean item scores, and items with significant differences when compared to our peer institutions. The notation ∇ represents that UHM's results were significantly lower than the results from the peer institutions and the notation \triangle represents that UHM's results were significantly higher. There were no information literacy-related NSSE items in the 2020 administration, thus the results were not available for *Information literacy* (WASC) from 2020 NSSE results. The 2015 NSSE and 2020 NSSE were slightly different. Only items on the 2020 NSSE were included in this study.

WASC Core Competencies Results

Critical Thinking

Item Description	Responses							2020	
	Included	Item	%	Mean	vs. Peer	Item	%	Mean	vs. Peer
		#				#			
Combined ideas from different	Often/ Very	2a	69	3.0	∇	2a	69	2.9	
courses when completing	Often								
assignments									
Applying facts, theories, or	Quite a bit/	4b	75	3.1	∇	4b	75	3	
methods to practical problems or	Very much								
new situations									
Analyzing an idea, experience, or	Quite a bit/	4c	75	3.1	∇	4c	74	3	
line of reasoning in depth by	Very much								
examining its parts									
Evaluating a point of view,	Quite a bit/	4d	69	2.9		4d	71	3	A
decision, or information source	Very much								
Forming a new idea or	Quite a bit/	4e	69	2.9		4e	71	2.9	
understanding from various	Very much								
pieces of information									
Identified key information from	Often/ Very	9a	81	3.2		9a	77	3.1	
reading assignments	Often								
Thinking critically and analytically	Quite a bit/	17c	79	3.1	∇	18c	82	3.2	∇
	Very much								
Solving complex real-world	Quite a bit/	17i	58	2.7	∇	18i	62	2.8	
problems	Very much								

Oral Communication

Item Description	Responses			2015		2020				
	Included	Item	%	Mean	vs. Peer	Item	%	Mean	vs. Peer	
		#				#				
Given a course presentation	Often/ Very Often	1i	62	2.8	A	1h	70	2.9		
Speaking clearly and effectively	Quite a bit/ Very much	17b	67	2.9		18b	65	2.9	A	

Quantitative Reasoning

Item Description	Responses			2015				2020	
	Included	Item	%	Mean	vs. Peer	Item	%	Mean	vs. Peer
		#				#			
Reached conclusions based on	Often/ Very	6a	53	2.6	∇	6a	56	2.6	∇
your own analysis of numerical	Often								
information (numbers, graphs,									
statistics, etc.)									
Used numerical information to	Often/ Very	6b	45	2.4		6b	45	2.4	∇
examine a real-world problem or	Often								
issue (unemployment, climate									
change, public health, etc.)									
Evaluated what others have	Often/ Very	6c	45	2.5		6c	44	2.4	∇
concluded from numerical	Often								
information									
Analyzing numerical and	Quite a bit/	17d	59	2.7	\vee	18d	67	2.9	\vee
statistical information	Very much								

Written Communication

Item Description	Responses			2015				2020	
	Included	Item	%	Mean	vs. Peer	Item	%	Mean	vs. Peer
		#				#			
Up to 5 pages of writing tasks	3-5/6-10/11-	7a	81	8.3		7a	82	2.7	
have been assigned	15/16-20/More								
	than 20								
Between 6 and 10 pages of	3-5/6-10/11-	7b	46	3.9	A	7b	50	4.5	A
writing tasks have been assigned	15/16-20/More								
	than 20								
11 pages or more of writing tasks	3-5/6-10/11-	7c	25	2.7	A	7c	26	8.8	A
have been assigned	15/16-20/More								
	than 20								
Writing clearly and effectively	Quite a bit/	17a	68	2.9		18a	71	2.9	
	Very much								

Institutional Learning Outcomes Results

ILO 2a: Think Critically and Creatively

Item	Responses			2015				2020	
	Included	Item	%	Mean	vs. Peer	Item	%	Mean	vs. Peer
		#				#			
Combined ideas from different	Often/ Very	2a	69	3.0	∇	2a	69	2.9	
courses when completing	Often								
assignments									
Applying facts, theories, or methods	Quite a bit/	4b	75	3.1	∇	4b	75	3	
to practical problems or new	Very much								
situations									
Analyzing an idea, experience, or	Quite a bit/	4c	75	3.1	∇	4c	74	3	
line of reasoning in depth by	Very much								
examining its parts									
Evaluating a point of view, decision,	Quite a bit/	4d	69	2.9		4d	71	3	A
or information source	Very much								
Forming a new idea or	Quite a bit/	4e	69	2.9		4e	71	2.9	
understanding from various pieces	Very much								
of information									
Reached conclusions based on	Often/ Very	6a	53	2.6	∇	6a	56	2.6	∇
your own analysis of numerical	Often								
information (numbers, graphs,									
statistics, etc.)									
Used numerical information to	Often/ Very	6b	45	2.4		6b	44	2.4	∇
examine a real-world problem or	Often								
issue (unemployment, climate									
change, public health, etc.)									
Evaluated what others have	Often/ Very	6c	45	2.5		6c	45	2.4	∇
concluded from numerical	Often								
information									
Identified key information from	Often/ Very	9a	81	3.2		9a	77	3.1	
reading assignments	Often								
Thinking critically and analytically	Quite a bit/	17c	79	3.1	\vee	18c	82	3.2	\vee
	Very much								
Analyzing numerical and statistical	Quite a bit/	17d	58	2.7	∇	18d	67	2.9	\vee
information	Very much								

Solving complex real-world	Quite a bit/	17i	58	2.7	∇	18i	62	2.8	
problems	Very much								

ILO 2b: Conduct Research

Item	Responses			2015				2020	
	Included	Item	%	Mean	vs. Peer	Item	%	Mean	vs. Peer
		#				#			
Work with a faculty member on a research project	Done or In Progress	11e	25	25%	A	11e	24	0.24	

ILO 2c: Communicate and Report

Item	Responses			2015				2020	
	Included	Item	%	Mean	vs. Peer	Item	%	Mean	vs. Peer
		#				#			
Worked with other students on	Often/ Very	1h	67	3.0	A	1g	71	3	
course projects or assignments	Often								
Given a course presentation	Often/ Very	1i	62	2.8		1h	65	2.9	
	Often								
Up to 5 pages of writing tasks	3-5/6-10/11-	7a	81	8.3	A	7a	82	8.8	A
have been assigned	15/16-20/More								
	than 20								
Between 6 and 10 pages writing	3-5/6-10/11-	7b	46	3.9	A	7b	50	4.5	
tasks have been assigned	15/16-20/More								
	than 20								
11 pages or more writing tasks	3-5/6-10/11-	7c	25	2.7	A	7c	26	2.7	
have been assigned	15/16-20/More								
	than 20								
Writing clearly and effectively	Quite a bit/	17a	68	2.9		18a	71	2.9	
	Very much								
Speaking clearly and effectively	Quite a bit/	17b	67	2.9		18b	70	2.9	
	Very much								
Working effectively with others	Quite a bit/	17f	69	2.9		18f	74	3	
	Very much								

ILO 3a: Continuous Learning and Personal Growth

Item	Responses			2015				2020	
	Included	Item	%	Mean	vs. Peer	Item	%	Mean	vs. Peer
		#				#			
Examined the strengths and	Often/ Very	2d	65	2.8		2d	66	2.8	
weaknesses of your own views on	Often								
a topic or issue									
Learned something that changed	Often/ Very	2f	71	3.0		2f	75	3	
the way you understand an issue	Often								
or concept									
Connected ideas from your	Often/ Very	2g	81	3.2		2g	83	3.2	
courses to your prior experiences	Often								
and knowledge									
Talked about career plans with a	Often/ Very	3a	38	2.3		3a	42	2.4	
faculty member	Often								
Discussed course topics, ideas,	Often/ Very	3c	30	2.1		3с	29	2.1	
or concepts with a faculty	Often								
member outside of class									
Hold a formal leadership role in a	Done or In	11b	33	0.32		11b	31	0.31	∇
student organization or group	Progress								
Developing or clarifying a	Quite a bit/	17g	58	2.7		18g	66	2.9	A
personal code of values and	Very much								
ethics									

ILO 3b: Respect for People and Cultures, in Particular Hawaiian Culture

Item	Responses			2015		2020				
	Included	Item	%	Mean	vs. Peer	Item	%	Mean	vs. Peer	
		#				#				
Included diverse perspectives	Often/ Very	2c	56	2.7	A	2c	53	2.6	A	
(political, religious, racial/ethnic,	Often									
gender, etc.) in course										
discussions or assignments										
Tried to better understand	Often/ Very	2e	71	3.0		2e	73	3	A	
someone else's views by	Often									
imagining how an issue looks										
from his or her perspective										
Discuss with people of a race or	Often/ Very	8a	83	3.4		8a	81	3.3		
ethnicity other than your own	Often									
Discuss with people from an	Often/ Very	8b	79	3.2		8b	75	3.1		
economic background other than	Often									
your own										
Discuss with people with religious	Often/ Very	8c	73	3.1		8c	67	3		
beliefs other than your own	Often									
Discuss with people with political	Often/ Very	8d	68	3.0	∇	8d	57	2.8	∇	
views other than your own	Often									
Participate in a study abroad	Done or In	11d	15	0.14	A	11d	13	0.13		
program	Progress									
Understanding people of other	Quite a bit/	17h	64	2.9		18h	69	2.9	A	
backgrounds (economic,	Very much									
racial/ethnic, political, religious,										
nationality, etc.)										

ILO 3d: Civic Participation in Their Communities

Item	Responses	2015				2020			
	Included	Item	%	Mean	vs. Peer	Item	%	Mean	vs. Peer
		#				#			
Connected your learning to	Often/ Very	2b	65	2.9	∇	2b	60	2.8	
societal problems or issues	Often								
Participate in an internship, co-op,	Done or In	11a	52	0.50		11a	47	0.47	
field experience, student	Progress								
teaching, or clinical placement									
About how many of your courses	Most/All	12	11	1.8	A	12	13	1.8	A
at this institution have included a									
community-based project									
(service-learning)?									
Participating in co-curricular	1-5 hrs//26-	15b	53	4.6	A	16b	56	4.8	
activities	30 hrs/More								
	than 30 hours								
Doing community service or	1-5 hrs//26-	15e	54	3.9	A	16e	49	3.5	A
volunteer work	30 hrs/More								
	than 30 hours								
Being an informed and active	Quite a bit/	17j	51	2.5	∇	18j	54	2.6	
citizen	Very much								