

NSSE 2024 Topical Module Report Development of Transferable Skills

Tennessee Technological University

Adapted from a pilot survey that was developed by the American Association of State Colleges and Universities, this module examines activities that develop useful and transferable skills for the workplace and beyond (such as verbal and written fluency, critical thinking, creative thinking, problem solving, project management, and time management). The module complements questions on the core survey about higher-order learning, reflective and integrative learning, and students' perceptions of their development in a variety of areas.

Comparison group details are in the online Selected Comparison Groups report, linked in the Data & Reports table on the Institution Interface. A PDF copy is also saved in your report download folder.

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Frequencies and Statistical Comparisons Tennessee Technological University

| | | | | Frequency Distributions ^a | | | | Statistical Comparisons ^b | | | |
|---|---------------------------------------|---------------------|------------------------------------|--------------------------------------|--------------|----------------|----------|--------------------------------------|--------------|-----------------------------|--|
| | | | | | | Transferat | ole | | | | |
| | | | | Tennessee | Гесh | Skills | | Tennessee Tech | Transferat | | |
| Item wording or description | Variable name | Values ^c | Response options | Count | % | Count | % | Mean | Mean | Effect size ^d | |
| | | | | | | | 70 | wear | wean | 5120 | |
| During the current school year, v Discussed or debated an issue of | TRNdebate | e-related | l or not, about how often Never | have you doi 79 | ne the 25 | 2,518 | 19 | | | | |
| social, political, or philosophical | TRINUCUALC | 2 | Sometimes | 130 | 42 | 5,264 | 40 | | | | |
| importance | | 2 | Often | 68 | 23 | 3,533 | 27 | 2.2 | 2.4 *** | 10 | |
| | | 4 | Very often | 31 | 10 | 1,858 | 14 | 2.2 | 2.4 *** ▼ | 19 | |
| | | · | Total | 308 | 100 | 13,173 | 100 | | v | | |
| b. Made a speech to a group | TRNspeech | 1 | Never | 81 | 27 | 4,066 | 31 | | | | |
| 1 8 1 | 1 | 2 | Sometimes | 131 | 42 | 5,160 | 39 | | | | |
| | | 3 | Often | 68 | 23 | 2,650 | 20 | 2.1 | 2.1 | .02 | |
| | | 4 | Very often | 26 | 8 | 1,287 | 10 | | 2.1 | .02 | |
| | | | Total | 306 | 100 | 13,163 | 100 | | | | |
| c. Worked in a group with people | TRNgroup | 1 | Never | 21 | 7 | 915 | 7 | | | | |
| who differed from you in terms of | | 2 | Sometimes | 121 | 39 | 4,558 | 35 | | | | |
| background, political orientation, points of view, etc. | | 3 | Often | 117 | 38 | 5,186 | 39 | 2.6 | 2.7 | 09 | |
| points of view, etc. | | 4 | Very often | 49 | 15 | 2,496 | 19 | | | | |
| | | | Total | 308 | 100 | 13,155 | 100 | | | | |
| d. Discussed the ethical consequences | TRNethical | 1 | Never | 61 | 21 | 2,054 | 16 | | | | |
| of a course of action | | 2 | Sometimes | 137 | 44 | 5,336 | 40 | | | | |
| | | 3 | Often | 81 | 26 | 4,101 | 31 | 2.2 | 2.4 ** | 18 | |
| | | 4 | Very often | 29 | 9 | 1,666 | 12 | | ∇ | | |
| | | | Total | 308 | 100 | 13,157 | 100 | | | | |
| e. Evaluated the credibility of | TRNcred | 1 | Never | 26 | 9 | 838 | 7 | | | | |
| information sources | | 2 | Sometimes | 116 | 38 | 4,044 | 31 | | | | |
| | | 3 | Often | 115 | 37 | 5,387 | 41 | 2.6 | 2.8 *** | 21 | |
| | | 4 | Very often | 50 | 16 | 2,877 | 22 | | ∇ | | |
| | | | Total | 307 | 100 | 13,146 | 100 | | | | |
| f. Discussed complex problems with | TRNcomplex | 1 | Never | 28 | 10 | 1,026 | 8 | | | | |
| others to develop a better solution | | 2 | Sometimes | 124 | 41 | 4,530 | 35 | | | | |
| | | 3 | Often | 105 | 33 | 5,195 | 39 | 2.6 | 2.7 * | 12 | |
| | | 4 | Very often | 49 | 16 | 2,383 | 18 | | ∇ | | |
| | | | Total | 306 | 100 | 13,134 | 100 | | | | |
| g. Generated multiple solutions to a problem or task | TRNsolution | 1 | Never | 16 | 5 | 747 | 6 | | | | |
| problem of task | | 2 | Sometimes | 118 | 39 | 4,464 | 34 | 2.5 | | | |
| | | | Often | 119 | 39 | 5,475 | 41 | 2.7 | 2.7 | 05 | |
| | | 4 | Very often | 53 | 17 | 2,450 | 18 | | | | |
| h Combined dissimilar concents to | TRNcreate | 1 | Total Never | 306 78 | 100 | 13,136 | 100 | | | | |
| h. Combined dissimilar concepts to create a novel idea | IKINCreate | 2 | Sometimes | 124 | 41 | 5,607 | | | | | |
| | | 2 | Often | | | | 42 | 2.2 | | | |
| | | 3 4 | Very often | 79 26 | 25 8 | 3,506 1,286 | 27 10 | 2.2 | 2.3 | 11 | |
| | | - | Total | 307 | 0 100 | 1,280 | 100 | | | | |
| i. Adapted a previously used solution | TRNadapt | 1 | Never | 36 | 100 | 1,312 | 100 | | | | |
| to a new situation | · · · · · · · · · · · · · · · · · · · | 2 | Sometimes | 126 | 41 | 5,057 | 39 | | | | |
| | | 3 | Often | 120 | 33 | 4,922 | 37 | 2.5 | 2.5 | 06 | |
| | | 4 | Very often | 43 | 14 | 1,806 | 14 | 2.0 | 2.3 | 00 | |
| | | - | Total | 306 | 100 | 13,097 | 100 | | | | |
| | | | | 200 | | -0,077 | | | | | |



Frequencies and Statistical Comparisons Tennessee Technological University

| | | | | Frequency Distributions ^a | | | ns ^a | Statistical C | Compar | isons ^b |
|--|-------------|---------------------|------------------|--------------------------------------|------|------------|-----------------|----------------|-----------|--------------------|
| | | | | | | Transferat | | | | |
| | | | | Tennessee | Геch | Skills | | Tennessee Tech | Transfera | ble Skills |
| | Variable | | | | | | | | | Effect |
| Item wording or description | name | Values ^c | Response options | Count | % | Count | % | Mean | Mean | size ^d |
| j. Referred to online content (tutorial, | TRNonlsolve | 1 | Never | 10 | 3 | 530 | 4 | | | |
| forum, webpage, etc.) to solve a | | 2 | Sometimes | 81 | 27 | 3,260 | 25 | | | |
| problem | | 3 | Often | 132 | 43 | 5,127 | 39 | 2.9 | 3.0 | 04 |
| | | 4 | Very often | 83 | 27 | 4,181 | 31 | | | |
| | | | Total | 306 | 100 | 13,098 | 100 | | | |
| k. Referred to online content (tutorial, | TRNonlskill | 1 | Never | 12 | 4 | 563 | 5 | | | |
| forum, webpage, etc.) to learn a | | 2 | Sometimes | 85 | 28 | 3,588 | 28 | | | |
| new skill or procedure | | 3 | Often | 123 | 40 | 5,061 | 38 | 2.9 | 2.9 | .00 |
| | | 4 | Very often | 86 | 28 | 3,885 | 29 | | | |
| | | | Total | 306 | 100 | 13,097 | 100 | | | |
| l. Used project management tools to | TRNproject | 1 | Never | 38 | 13 | 1,417 | 12 | | | |
| plan, organize, or schedule tasks | | 2 | Sometimes | 122 | 40 | 4,539 | 35 | | | |
| | | 3 | Often | 94 | 32 | 4,647 | 35 | 2.5 | 2.6 | 11 |
| | | 4 | Very often | 51 | 15 | 2,489 | 18 | | | |
| | | | Total | 305 | 100 | 13,092 | 100 | | | |
| n. Used a daily or weekly "to do" list | TRNtodo | 1 | Never | 48 | 18 | 1,074 | 10 | | | |
| | | 2 | Sometimes | 80 | 27 | 3,147 | 25 | | | |
| | | 3 | Often | 69 | 23 | 3,223 | 25 | 2.7 | 2.9 *** | *24 |
| | | 4 | Very often | 109 | 32 | 5,670 | 40 | | ∇ | |
| | | | Total | 306 | 100 | 13,114 | 100 | | | |
| n. Prioritized what tasks need to be | TRNtasks | 1 | Never | 9 | 3 | 205 | 2 | | | |
| accomplished | | 2 | Sometimes | 58 | 20 | 1,984 | 16 | | | |
| | | 3 | Often | 117 | 40 | 4,557 | 35 | 3.1 | 3.3 *** | *20 |
| | | 4 | Very often | 122 | 37 | 6,327 | 47 | | ∇ | |
| | | | Total | 306 | 100 | 13,073 | 100 | | | |
| o. Worked longer hours than usual to | TRNhours | 1 | Never | 22 | 8 | 949 | 8 | | | |
| meet deadlines (i.e., after midnight, | | 2 | Sometimes | 92 | 30 | 3,508 | 27 | | | |
| before dawn) | | 3 | Often | 99 | 33 | 3,870 | 30 | 2.8 | 2.9 | 11 |
| | | 4 | Very often | 94 | 29 | 4,783 | 35 | | | |
| | | | Total | 307 | 100 | 13,110 | 100 | | | |
| p. Written something (paper, report, | TRNwrsource | 1 | Never | 25 | 9 | 443 | 4 | | | |
| article, etc.) that used information | | 2 | Sometimes | 107 | 36 | 3,297 | 26 | | | |
| from a variety of sources (books, | | 3 | Often | 101 | 33 | 4,761 | 36 | 2.7 | 3.0 *** | *37 |
| journals, Internet, databases, etc.) | | 4 | Very often | 74 | 22 | 4,585 | 34 | | V | |
| | | | Total | 307 | 100 | 13,086 | 100 | | · | |
| q. Written something (paper, report, | TRNwrassess | 1 | Never | 47 | 16 | 1,542 | 12 | | | |
| article, etc.) that assessed the | | 2 | Sometimes | 118 | 39 | 4,418 | 34 | | | |
| conclusions of a published work | | 3 | Often | 93 | 31 | 4,156 | 32 | 2.4 | 2.6 *** | *22 |
| | | 4 | Very often | 47 | 14 | 2,957 | 22 | | V | |
| | | | Total | 305 | 100 | 13,073 | 100 | | · | |



Frequencies and Statistical Comparisons Tennessee Technological University

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| | | | | Frequen | cy D | istributio | ns ^a | Statistical Comparisons ^b | | | |
|---|------------------|---------------------|------------------|-------------|------|------------|-----------------|--------------------------------------|------------|-----------------------------|--|
| | | | | | | Transferat | ole | | | | |
| | | | | Tennessee 1 | Геch | Skills | | Tennessee Tech | Transferal | ole Skills | |
| Item wording or description | Variable name | Values ^c | Response options | Count | % | Count | % | Mean | Mean | Effect size ^d | |
| r. Written something (paper, report, article, etc.) that included ideas | TRNwrideas | 1 | Never | 46 | 16 | 1,609 | 13 | | | | |
| | | 2 | Sometimes | 127 | 41 | 4,676 | 36 | | | | |
| from more than one academic discipline | | 3 | Often | 85 | 28 | 4,152 | 31 | 2.4 | 2.6 ** | 16 | |
| uiscipinie | | 4 | Very often | 48 | 15 | 2,629 | 20 | | ∇ | | |
| | | | Total | 306 | 100 | 13,066 | 100 | | | | |
| s. Written something (paper, report, | TRNwrviews | 1 | Never | 34 | 12 | 1,180 | 9 | | | | |
| article, etc.) that presented multiple | | 2 | Sometimes | 129 | 42 | 4,732 | 36 | | | | |
| viewpoints or perspectives | | 3 | Often | 88 | 29 | 4,475 | 34 | 2.5 | 2.7 ** | 17 | |
| | | 4 | Very often | 54 | 16 | 2,696 | 20 | | ∇ | | |
| | | | Total | 305 | 100 | 13,083 | 100 | | | | |



Frequencies and Statistical Comparisons Tennessee Technological University

Seniors

| | | | | Frequen Tennessee | | istributio Transferat Skills | | | Statistical Comparisons ^b Tennessee Tech Transferable Skills | | |
|---------------------------------------|------------------|---------------------|----------------------|----------------------|--------|---|-----|------|--|-----------------------------|--|
| Item wording or description | Variable name | Values ^c | Response options | Count | % | Count | % | Mean | Mean | Effect size ^d | |
| L. During the current school year, v | whether cours | e-related | or not, about how of | ten have vou doi | ne the | following? | | | | | |
| a. Discussed or debated an issue of | TRNdebate | 1 | Never | 134 | 23 | 2,451 | 19 | | | | |
| social, political, or philosophical | | 2 | Sometimes | 258 | 46 | 5,088 | 37 | | | | |
| importance | | 3 | Often | 104 | 19 | 3,586 | 26 | 2.2 | 2.4 *** | 24 | |
| | | 4 | Very often | 66 | 12 | 2,414 | 18 | | ∇ | | |
| | | | Total | 562 | 100 | 13,539 | 100 | | | | |
| b. Made a speech to a group | TRNspeech | 1 | Never | 107 | 19 | 3,156 | 24 | | | | |
| | | 2 | Sometimes | 265 | 48 | 5,585 | 41 | | | | |
| | | 3 | Often | 113 | 20 | 3,050 | 22 | 2.3 | 2.2 | .04 | |
| | | 4 | Very often | 78 | 14 | 1,752 | 13 | | | | |
| | | | Total | 563 | 100 | 13,543 | 100 | | | | |
| c. Worked in a group with people | TRNgroup | 1 | Never | 29 | 5 | 795 | 6 | | | | |
| who differed from you in terms of | | 2 | Sometimes | 212 | 39 | 4,273 | 31 | | | | |
| background, political orientation, | | 3 | Often | 203 | 35 | 5,186 | 38 | 2.7 | 2.8 * | 09 | |
| points of view, etc. | | 4 | Very often | 116 | 21 | 3,279 | 24 | | ∇ | | |
| | | | Total | 560 | 100 | 13,533 | 100 | | | | |
| d. Discussed the ethical consequences | TRNethical | 1 | Never | 73 | 13 | 1,659 | 13 | | | | |
| of a course of action | | 2 | Sometimes | 246 | 44 | 5,007 | 37 | | | | |
| | | 3 | Often | 177 | 31 | 4,499 | 33 | 2.4 | 2.6 *** | 14 | |
| | | 4 | Very often | 67 | 12 | 2,366 | 17 | | ∇ | | |
| | | | Total | 563 | 100 | 13,531 | 100 | | · · | | |
| E. Evaluated the credibility of | TRNcred | 1 | Never | 34 | 6 | 767 | 6 | | | | |
| information sources | | 2 | Sometimes | 195 | 35 | 3,732 | 28 | | | | |
| | | 3 | Often | 205 | 36 | 5,234 | 38 | 2.8 | 2.9 ** | 14 | |
| | | 4 | Very often | 129 | 23 | 3,787 | 28 | | ∇ | | |
| | | | Total | 563 | 100 | 13,520 | 100 | | · | | |
| f. Discussed complex problems with | TRNcomplex | 1 | Never | 38 | 7 | 805 | 6 | | | | |
| others to develop a better solution | | 2 | Sometimes | 186 | 33 | 3,795 | 28 | | | | |
| | | 3 | Often | 206 | 36 | 5,486 | 40 | 2.8 | 2.8 | 08 | |
| | | 4 | Very often | 133 | 24 | 3,431 | 25 | | | | |
| | | | Total | 563 | 100 | 13,517 | 100 | | | | |
| g. Generated multiple solutions to a | TRNsolution | 1 | Never | 38 | 7 | 613 | 5 | | | | |
| problem or task | | 2 | Sometimes | 171 | 30 | 3,820 | 29 | | | | |
| | | 3 | Often | 225 | 40 | 5,712 | 42 | 2.8 | 2.9 * | 09 | |
| | | 4 | Very often | 128 | 23 | 3,367 | 25 | | ∇ | | |
| | | | Total | 562 | 100 | 13,512 | 100 | | | | |
| h. Combined dissimilar concepts to | TRNcreate | 1 | Never | 117 | 20 | 2,296 | 17 | | | | |
| create a novel idea | | 2 | Sometimes | 272 | 49 | 5,791 | 43 | | | | |
| | | 3 | Often | 120 | 21 | 3,674 | 27 | 2.2 | 2.4 *** | 17 | |
| | | 4 | Very often | 54 | 10 | 1,736 | 13 | | ∇ | | |
| | | | Total | 563 | 100 | 13,497 | 100 | | | | |
| i. Adapted a previously used solution | TRNadapt | 1 | Never | 50 | 9 | 1,088 | 8 | | | | |
| to a new situation | | 2 | Sometimes | 215 | 38 | 4,774 | 35 | | | | |
| | | 3 | Often | 202 | 36 | 5,196 | 39 | 2.6 | 2.7 | 06 | |
| | | 4 | Very often | 95 | 17 | 2,442 | 18 | | | | |
| | | | Total | 562 | 100 | 13,500 | 100 | | | | |



Frequencies and Statistical Comparisons Tennessee Technological University

Seniors

| | | | | Frequen | cy Di | stributio | ns ^a | Statistical (| Compar | isons |
|---|-------------|---------------------|------------------|------------------------|-------|------------|-----------------|----------------|-----------|-------------------|
| | | | | | | Transferal | ole | | | |
| | | | | Tennessee ⁻ | Геch | Skills | | Tennessee Tech | Transfera | ble Skill |
| | Variable | | | | | | | | | Effect |
| Item wording or description | name | Values ^c | Response options | Count | % | Count | % | Mean | Mean | size ^d |
| j. Referred to online content (tutorial, | TRNonlsolve | 1 | Never | 26 | 5 | 471 | 4 | | | |
| forum, webpage, etc.) to solve a problem | | 2 | Sometimes | 115 | 20 | 2,962 | 22 | | | |
| problem | | 3 | Often | 204 | 36 | 4,901 | 36 | 3.1 | 3.1 | .00 |
| | | 4 | Very often | 218 | 39 | 5,179 | 38 | | | |
| | | | Total | 563 | 100 | 13,513 | 100 | | | |
| k. Referred to online content (tutorial, | TRNonlskill | 1 | Never | 26 | 5 | 538 | 4 | | | |
| forum, webpage, etc.) to learn a new skill or procedure | | 2 | Sometimes | 147 | 26 | 3,243 | 24 | | | |
| new skill of procedure | | 3 | Often | 186 | 33 | 4,968 | 37 | 3.0 | 3.0 | 03 |
| | | 4 | Very often | 199 | 36 | 4,751 | 35 | | | |
| | | | Total | 558 | 100 | 13,500 | 100 | | | |
| l. Used project management tools to | TRNproject | 1 | Never | 63 | 11 | 1,392 | 11 | | | |
| plan, organize, or schedule tasks | | 2 | Sometimes | 194 | 35 | 4,107 | 31 | | | |
| | | 3 | Often | 176 | 31 | 4,764 | 35 | 2.6 | 2.7 | 07 |
| | | 4 | Very often | 130 | 23 | 3,219 | 23 | | | |
| | | | Total | 563 | 100 | 13,482 | 100 | | | |
| Used a daily or weekly "to do" list | TRNtodo | 1 | Never | 62 | 12 | 993 | 8 | | | |
| | | 2 | Sometimes | 127 | 23 | 2,710 | 21 | | | |
| | | 3 | Often | 122 | 22 | 3,285 | 25 | 3.0 | 3.1 ** | 13 |
| | | 4 | Very often | 252 | 43 | 6,519 | 46 | | ∇ | |
| | | | Total | 563 | 100 | 13,507 | 100 | | | |
| n. Prioritized what tasks need to be | TRNtasks | 1 | Never | 10 | 2 | 188 | 2 | | | |
| accomplished | | 2 | Sometimes | 72 | 13 | 1,554 | 12 | | | |
| | | 3 | Often | 172 | 31 | 4,251 | 32 | 3.4 | 3.4 | 03 |
| | | 4 | Very often | 308 | 54 | 7,507 | 54 | | | |
| | | | Total | 562 | 100 | 13,500 | 100 | | | |
| o. Worked longer hours than usual to | TRNhours | 1 | Never | 35 | 6 | 883 | 7 | | | |
| meet deadlines (i.e., after midnight, | | 2 | Sometimes | 151 | 27 | 3,426 | 26 | | | |
| before dawn) | | 3 | Often | 152 | 27 | 3,583 | 27 | 3.0 | 3.0 | 04 |
| | | 4 | Very often | 223 | 39 | 5,614 | 41 | | | |
| | | | Total | 561 | 100 | 13,506 | 100 | | | |
| p. Written something (paper, report, | TRNwrsource | 1 | Never | 37 | 7 | 432 | 4 | | | |
| article, etc.) that used information | | 2 | Sometimes | 172 | 32 | 2,655 | 21 | | | |
| from a variety of sources (books, journals, Internet, databases, etc.) | | 3 | Often | 188 | 33 | 4,337 | 32 | 2.8 | 3.2 *** | *38 |
| Journais, internet, databases, etc.) | | 4 | Very often | 162 | 28 | 6,062 | 44 | | V | |
| | | | Total | 559 | 100 | 13,486 | 100 | | | |
| q. Written something (paper, report, | TRNwrassess | 1 | Never | 94 | 17 | 1,437 | 11 | | | |
| article, etc.) that assessed the | | 2 | Sometimes | 208 | 38 | 4,088 | 31 | | | |
| conclusions of a published work | | 3 | Often | 143 | 25 | 3,970 | 29 | 2.5 | 2.8 *** | *27 |
| | | 4 | Very often | 114 | 20 | 3,982 | 29 | 110 | ▼ | , |
| | | | Total | 559 | 100 | 13,477 | 100 | | ¥ | |



Frequencies and Statistical Comparisons Tennessee Technological University

Seniors

| | | | | Frequen | cy D | istributio | ns ^a | Statistical Comparisons ^b | | | |
|---|------------------|---------------------|------------------|-----------|------|------------|-----------------|--------------------------------------|------------|-----------------------------|--|
| | | | | | | Transferat | ole | | | | |
| | | | | Tennessee | Геch | Skills | | Tennessee Tech | Transferat | ole Skills | |
| Item wording or description | Variable name | Values ^c | Response options | Count | % | Count | % | Mean | Mean | Effect size ^d | |
| r. Written something (paper, report, article, etc.) that included ideas | TRNwrideas | 1 | Never | 90 | 16 | 1,321 | 11 | | | | |
| | | 2 | Sometimes | 226 | 41 | 4,249 | 32 | | | | |
| from more than one academic discipline | | 3 | Often | 145 | 25 | 4,183 | 31 | 2.4 | 2.7 *** | 30 | |
| uiscipille | | 4 | Very often | 102 | 18 | 3,741 | 27 | | ▼ | | |
| | | | Total | 563 | 100 | 13,494 | 100 | | | | |
| s. Written something (paper, report, | TRNwrviews | 1 | Never | 103 | 18 | 1,227 | 10 | | | | |
| article, etc.) that presented multiple | | 2 | Sometimes | 224 | 41 | 4,596 | 34 | | | | |
| viewpoints or perspectives | | 3 | Often | 143 | 25 | 4,284 | 32 | 2.4 | 2.7 *** | 34 | |
| | | 4 | Very often | 92 | 16 | 3,381 | 24 | | ▼ | | |
| | | | Total | 562 | 100 | 13,488 | 100 | | | | |



Detailed Statistics^e Tennessee Technological University

| | N | Me | an | Standa | rd error ^f | | idard ation ^g | DF ^h | Sig. ⁱ | Effect size ^d | |
|-------------|----------------|----------------|---------------------------------|--------|-----------------------|----------------|-----------------------------|---------------------|-------------------|-----------------------------|--|
| Variable | | IVIC | | Standa | | uevi | | | arisons with: | | |
| name | Tennessee Tech | Tennessee Tech | nessee Tech Transferable Skills | | Transferable Skills | Tennessee Tech | Transferable Skills | Transferable Skills | | | |
| TRNdebate | 306 | 2.17 | 2.35 | .053 | .008 | .92 | .94 | 320 | .001 | 19 | |
| TRNspeech | 305 | 2.12 | 2.10 | .052 | .008 | .90 | .95 | 14,328 | .732 | .02 | |
| TRNgroup | 306 | 2.62 | 2.69 | .047 | .007 | .83 | .86 | 14,322 | .118 | 09 | |
| TRNethical | 307 | 2.24 | 2.39 | .050 | .008 | .88 | .90 | 320 | .002 | 18 | |
| TRNcred | 305 | 2.59 | 2.77 | .049 | .007 | .86 | .86 | 14,313 | .000 | 21 | |
| TRNcomplex | 304 | 2.56 | 2.66 | .050 | .007 | .87 | .86 | 14,296 | .034 | 12 | |
| TRNsolution | 305 | 2.68 | 2.72 | .047 | .007 | .82 | .83 | 14,305 | .377 | 05 | |
| TRNcreate | 305 | 2.16 | 2.26 | .052 | .008 | .90 | .90 | 14,260 | .068 | 11 | |
| | 304 | 2.49 | 2.55 | .050 | .007 | .87 | .85 | 14,249 | .262 | 06 | |
| TRNadapt | 305 | 2.94 | 2.95 | .047 | .007 | .81 | .86 | 14,258 | .457 | 04 | |
| TRNonlsolve | 305 | 2.94 | 2.97 | .048 | .007 | .84 | .86 | 14,251 | .965 | .00 | |
| TRNonlskill | 304 | 2.92 | 2.52 | .052 | .008 | .90 | .92 | 14,250 | .052 | 11 | |
| TRNproject | 304 | 2.49 | 2.94 | .063 | .008 | 1.10 | 1.03 | 315 | .032 | 24 | |
| TRNtodo | | | | | | | | | | | |
| TRNtasks | 305 | 3.11 | 3.27 | .048 | .007 | .83 | .79 | 14,233 | .001 | 20 | |
| TRNhours | 305 | 2.82 | 2.92 | .054 | .008 | .94 | .96 | 14,268 | .064 | 11 | |
| TRNwrsource | 306 | 2.68 | 3.01 | .053 | .007 | .92 | .86 | 317 | .000 | 37 | |
| TRNwrassess | 303 | 2.43 | 2.64 | .053 | .008 | .92 | .95 | 14,233 | .000 | 22 | |
| TRNwrideas | 305 | 2.43 | 2.58 | .053 | .008 | .93 | .94 | 14,220 | .006 | 16 | |
| TRNwrviews | 303 | 2.50 | 2.66 | .052 | .008 | .90 | .90 | 14,246 | .004 | 17 | |



Detailed Statistics^e Tennessee Technological University

Seniors

| | N | Me | an | Standa | rd error ^f | | dard Ition ^g | DF ^h | Sig. ⁱ | Effect size ^d | |
|-------------|----------------|----------------|---------------------|------------------------------------|-----------------------|----------------|------------------------------------|-----------------|---------------------|-----------------------------|--|
| Variable | | | | Standa | | | | - | arisons with: | | |
| name | Tennessee Tech | Tennessee Tech | Transferable Skills | Tennessee Tech Transferable Skills | | Tennessee Tech | Tennessee Tech Transferable Skills | | Transferable Skills | | |
| TRNdebate | 564 | 2.19 | 2.43 | .039 | .008 | .93 | .99 | 614 | .000 | 24 | |
| TRNspeech | 565 | 2.29 | 2.25 | .039 | .008 | .92 | .96 | 14,976 | .356 | .04 | |
| TRNgroup | 562 | 2.72 | 2.81 | .036 | .007 | .85 | .87 | 14,954 | .030 | 09 | |
| TRNethical | 565 | 2.42 | 2.55 | .036 | .008 | .86 | .92 | 616 | .000 | 14 | |
| TRNcred | 565 | 2.76 | 2.88 | .037 | .007 | .87 | .88 | 14,953 | .001 | 14 | |
| TRNcomplex | 565 | 2.78 | 2.85 | .037 | .007 | .89 | .87 | 14,945 | .060 | 08 | |
| TRNsolution | 564 | 2.79 | 2.87 | .037 | .007 | .87 | .84 | 605 | .043 | 09 | |
| TRNcreate | 565 | 2.20 | 2.36 | .037 | .008 | .88 | .91 | 613 | .000 | 17 | |
| TRNadapt | 564 | 2.62 | 2.67 | .037 | .007 | .87 | .87 | 14,927 | .148 | 06 | |
| TRNonlsolve | 565 | 3.09 | 3.10 | .037 | .007 | .88 | .86 | 14,943 | .961 | .00 | |
| TRNonlskill | 560 | 3.01 | 3.04 | .038 | .007 | .90 | .86 | 14,917 | .445 | 03 | |
| TRNproject | 565 | 2.65 | 2.71 | .040 | .008 | .96 | .94 | 14,906 | .117 | 07 | |
| TRNtodo | 565 | 2.96 | 3.08 | .045 | .008 | 1.07 | .99 | 603 | .006 | 13 | |
| TRNtasks | 564 | 3.37 | 3.39 | .033 | .006 | .78 | .76 | 14,931 | .482 | 03 | |
| TRNhours | 563 | 2.99 | 3.02 | .040 | .008 | .96 | .96 | 14,936 | .393 | 04 | |
| TRNwrsource | 561 | 2.83 | 3.16 | .039 | .007 | .92 | .87 | 600 | .000 | 38 | |
| TRNwrassess | 561 | 2.48 | 2.75 | .042 | .008 | .99 | .99 | 14,897 | .000 | 27 | |
| TRNwrideas | 565 | 2.45 | 2.74 | .040 | .008 | .96 | .97 | 14,921 | .000 | 30 | |
| TRNwrviews | 564 | 2.38 | 2.71 | .041 | .008 | .96 | .94 | 14,910 | .000 | 34 | |



Endnotes Tennessee Technological University

Endnotes

- a. Column percentages are weighted by institution-reported sex and enrollment status (and institution size for comparison groups). Percentages may not sum to 100 due to rounding. Counts are unweighted; column percentages cannot be replicated from counts. Comparison group details are in the Selected Comparison Groups report, linked in the Data & Reports table on the Institution Interface.
- b. All statistics are weighted by institution-reported sex and enrollment status (and institution size for comparison groups). Unless otherwise noted, statistical comparisons are two-tailed independent t-tests. Items with categorical response sets are left blank.
- c. These are the values used to calculate means. For the majority of items, these values match the codes in the data file and codebook.
- d. Effect size for independent t-tests uses Cohen's d; z-tests use Cohen's h.
- e. Statistics are weighted by institution-reported sex and enrollment status (and institution size for comparison groups). Categorical items are not listed.
- f. The 95% confidence interval for the population mean is equal to the sample mean plus or minus 1.96 times the standard error of the mean.
- g. A measure of the amount individual scores deviate from the mean of all the scores in the distribution.
- h. Degrees of freedom used to compute the t-tests. Values differ from Ns due to weighting and whether equal variances were assumed.
- i. Statistical comparisons are two-tailed independent t-tests or z-tests. Statistical significance represents the probability that the difference between your students' mean and that of the students in the comparison group is due to chance.
- j. Statistical comparison uses z-test to compare the proportion who responded (depending on the item) "Done or in progress" or "Yes" with all who responded otherwise.
- k. Mean represents the proportion who responded (depending on the item) "Done or in progress" or "Yes."

Key to symbols:

- ▲ Your students' average was significantly higher (p < .05) with an effect size at least .3 in magnitude.
- \triangle Your students' average was significantly higher (p < .05) with an effect size less than .3 in magnitude.
- ∇ Your students' average was significantly lower (p < .05) with an effect size less than .3 in magnitude.
- **Your students' average** was significantly lower (p < .05) with an effect size at least .3 in magnitude.

Note: It is important to interpret the direction of differences relative to item wording and your institutional context. You may not see all of these symbols in your report.