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# NSSE 2022 Topical Module Report

## Development of Transferable Skills

The University of Texas at Arlington

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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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## First-Year Students

| Item wording or description                                                                                                | Variable name | Values <sup>c</sup> | Response options | Frequency Distributions <sup>a</sup> |     |                     |     | Statistical Comparisons <sup>b</sup> |                     |                          |
|----------------------------------------------------------------------------------------------------------------------------|---------------|---------------------|------------------|--------------------------------------|-----|---------------------|-----|--------------------------------------|---------------------|--------------------------|
|                                                                                                                            |               |                     |                  | UTA                                  |     | Transferable Skills |     | UTA                                  | Transferable Skills |                          |
|                                                                                                                            |               |                     |                  | Count                                | %   | Count               | %   | Mean                                 | Mean                | Effect size <sup>d</sup> |
| <b>1. During the current school year, whether course-related or not, about how often have you done the following?</b>      |               |                     |                  |                                      |     |                     |     |                                      |                     |                          |
| a. Discussed or debated an issue of social, political, or philosophical importance                                         | TRN01a21      | 1                   | Never            | 241                                  | 27  | 627                 | 19  | <b>2.2</b>                           | 2.4 ***             | -0.20<br>▽               |
|                                                                                                                            |               | 2                   | Sometimes        | 365                                  | 40  | 1,388               | 40  |                                      |                     |                          |
|                                                                                                                            |               | 3                   | Often            | 196                                  | 22  | 1,004               | 27  |                                      |                     |                          |
|                                                                                                                            |               | 4                   | Very often       | 107                                  | 12  | 553                 | 14  |                                      |                     |                          |
|                                                                                                                            |               | Total               |                  | 909                                  | 100 | 3,572               | 100 |                                      |                     |                          |
| b. Made a speech to a group                                                                                                | TRN01b21      | 1                   | Never            | 400                                  | 45  | 1,500               | 42  | <b>1.8</b>                           | 1.9 *               | -0.08<br>▽               |
|                                                                                                                            |               | 2                   | Sometimes        | 332                                  | 36  | 1,284               | 37  |                                      |                     |                          |
|                                                                                                                            |               | 3                   | Often            | 120                                  | 14  | 544                 | 15  |                                      |                     |                          |
|                                                                                                                            |               | 4                   | Very often       | 52                                   | 5   | 242                 | 7   |                                      |                     |                          |
|                                                                                                                            |               | Total               |                  | 904                                  | 100 | 3,570               | 100 |                                      |                     |                          |
| c. Worked in a group with people who differed from you in terms of background, political orientation, points of view, etc. | TRN01c21      | 1                   | Never            | 84                                   | 10  | 420                 | 12  | <b>2.6</b>                           | 2.5 ***             | .14<br>△                 |
|                                                                                                                            |               | 2                   | Sometimes        | 326                                  | 36  | 1,425               | 40  |                                      |                     |                          |
|                                                                                                                            |               | 3                   | Often            | 311                                  | 34  | 1,176               | 34  |                                      |                     |                          |
|                                                                                                                            |               | 4                   | Very often       | 185                                  | 20  | 541                 | 15  |                                      |                     |                          |
|                                                                                                                            |               | Total               |                  | 906                                  | 100 | 3,562               | 100 |                                      |                     |                          |
| d. Discussed the ethical consequences of a course of action                                                                | TRN01d21      | 1                   | Never            | 190                                  | 21  | 707                 | 20  | <b>2.3</b>                           | 2.3                 | -0.01                    |
|                                                                                                                            |               | 2                   | Sometimes        | 389                                  | 43  | 1,467               | 42  |                                      |                     |                          |
|                                                                                                                            |               | 3                   | Often            | 225                                  | 25  | 1,018               | 28  |                                      |                     |                          |
|                                                                                                                            |               | 4                   | Very often       | 102                                  | 11  | 376                 | 10  |                                      |                     |                          |
|                                                                                                                            |               | Total               |                  | 906                                  | 100 | 3,568               | 100 |                                      |                     |                          |
| e. Evaluated the credibility of information sources                                                                        | TRN01e21      | 1                   | Never            | 98                                   | 11  | 309                 | 9   | <b>2.7</b>                           | 2.7                 | .00                      |
|                                                                                                                            |               | 2                   | Sometimes        | 301                                  | 34  | 1,184               | 35  |                                      |                     |                          |
|                                                                                                                            |               | 3                   | Often            | 315                                  | 35  | 1,424               | 39  |                                      |                     |                          |
|                                                                                                                            |               | 4                   | Very often       | 190                                  | 21  | 650                 | 17  |                                      |                     |                          |
|                                                                                                                            |               | Total               |                  | 904                                  | 100 | 3,567               | 100 |                                      |                     |                          |
| f. Discussed complex problems with others to develop a better solution                                                     | TRN01f21      | 1                   | Never            | 110                                  | 12  | 434                 | 13  | <b>2.5</b>                           | 2.5                 | .06                      |
|                                                                                                                            |               | 2                   | Sometimes        | 351                                  | 39  | 1,401               | 39  |                                      |                     |                          |
|                                                                                                                            |               | 3                   | Often            | 292                                  | 32  | 1,265               | 36  |                                      |                     |                          |
|                                                                                                                            |               | 4                   | Very often       | 150                                  | 16  | 464                 | 12  |                                      |                     |                          |
|                                                                                                                            |               | Total               |                  | 903                                  | 100 | 3,564               | 100 |                                      |                     |                          |
| g. Generated multiple solutions to a problem or task                                                                       | TRN01g21      | 1                   | Never            | 90                                   | 10  | 322                 | 9   | <b>2.6</b>                           | 2.6                 | .04                      |
|                                                                                                                            |               | 2                   | Sometimes        | 333                                  | 37  | 1,387               | 39  |                                      |                     |                          |
|                                                                                                                            |               | 3                   | Often            | 320                                  | 35  | 1,331               | 38  |                                      |                     |                          |
|                                                                                                                            |               | 4                   | Very often       | 158                                  | 17  | 521                 | 14  |                                      |                     |                          |
|                                                                                                                            |               | Total               |                  | 901                                  | 100 | 3,561               | 100 |                                      |                     |                          |
| h. Combined dissimilar concepts to create a novel idea                                                                     | TRN01h21      | 1                   | Never            | 208                                  | 23  | 972                 | 27  | <b>2.2</b>                           | 2.1 ***             | .14<br>△                 |
|                                                                                                                            |               | 2                   | Sometimes        | 385                                  | 43  | 1,530               | 43  |                                      |                     |                          |
|                                                                                                                            |               | 3                   | Often            | 219                                  | 24  | 797                 | 22  |                                      |                     |                          |
|                                                                                                                            |               | 4                   | Very often       | 89                                   | 10  | 262                 | 7   |                                      |                     |                          |
|                                                                                                                            |               | Total               |                  | 901                                  | 100 | 3,561               | 100 |                                      |                     |                          |
| i. Adapted a previously used solution to a new situation                                                                   | TRN01i21      | 1                   | Never            | 112                                  | 12  | 530                 | 14  | <b>2.5</b>                           | 2.4 **              | .11<br>△                 |
|                                                                                                                            |               | 2                   | Sometimes        | 359                                  | 40  | 1,514               | 43  |                                      |                     |                          |
|                                                                                                                            |               | 3                   | Often            | 316                                  | 35  | 1,135               | 32  |                                      |                     |                          |
|                                                                                                                            |               | 4                   | Very often       | 116                                  | 13  | 380                 | 10  |                                      |                     |                          |
|                                                                                                                            |               | Total               |                  | 903                                  | 100 | 3,559               | 100 |                                      |                     |                          |

## First-Year Students

| Item wording or description                                                                                                                      | Variable name | Values <sup>c</sup> | Response options | Frequency Distributions <sup>a</sup> |     |                     |     | Statistical Comparisons <sup>b</sup> |                     |                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------------|------------------|--------------------------------------|-----|---------------------|-----|--------------------------------------|---------------------|--------------------------|
|                                                                                                                                                  |               |                     |                  | UTA                                  |     | Transferable Skills |     | UTA                                  | Transferable Skills |                          |
|                                                                                                                                                  |               |                     |                  | Count                                | %   | Count               | %   | Mean                                 | Mean                | Effect size <sup>d</sup> |
| j. Referred to online content (tutorial, forum, webpage, etc.) to solve a problem                                                                | TRN01j21      | 1                   | Never            | 63                                   | 7   | 170                 | 5   | <b>2.8</b>                           | 2.9 ***             | -.12                     |
|                                                                                                                                                  |               | 2                   | Sometimes        | 264                                  | 29  | 963                 | 27  |                                      |                     |                          |
|                                                                                                                                                  |               | 3                   | Often            | 328                                  | 37  | 1,324               | 37  |                                      |                     |                          |
|                                                                                                                                                  |               | 4                   | Very often       | 249                                  | 27  | 1,104               | 31  |                                      |                     |                          |
|                                                                                                                                                  |               |                     | Total            | 904                                  | 100 | 3,561               | 100 |                                      |                     |                          |
| k. Referred to online content (tutorial, forum, webpage, etc.) to learn a new skill or procedure                                                 | TRN01k21      | 1                   | Never            | 68                                   | 8   | 179                 | 5   | <b>2.8</b>                           | 2.9 **              | -.10                     |
|                                                                                                                                                  |               | 2                   | Sometimes        | 268                                  | 30  | 1,032               | 30  |                                      |                     |                          |
|                                                                                                                                                  |               | 3                   | Often            | 321                                  | 36  | 1,302               | 36  |                                      |                     |                          |
|                                                                                                                                                  |               | 4                   | Very often       | 247                                  | 27  | 1,044               | 30  |                                      |                     |                          |
|                                                                                                                                                  |               |                     | Total            | 904                                  | 100 | 3,557               | 100 |                                      |                     |                          |
| l. Used project management tools to plan, organize, or schedule tasks                                                                            | TRN01l21      | 1                   | Never            | 117                                  | 13  | 491                 | 14  | <b>2.5</b>                           | 2.5                 | .05                      |
|                                                                                                                                                  |               | 2                   | Sometimes        | 341                                  | 38  | 1,365               | 40  |                                      |                     |                          |
|                                                                                                                                                  |               | 3                   | Often            | 299                                  | 33  | 1,137               | 30  |                                      |                     |                          |
|                                                                                                                                                  |               | 4                   | Very often       | 145                                  | 15  | 560                 | 15  |                                      |                     |                          |
|                                                                                                                                                  |               |                     | Total            | 902                                  | 100 | 3,553               | 100 |                                      |                     |                          |
| m. Used a daily or weekly "to do" list                                                                                                           | TRN01m21      | 1                   | Never            | 91                                   | 11  | 314                 | 11  | <b>2.8</b>                           | 2.9 **              | -.12                     |
|                                                                                                                                                  |               | 2                   | Sometimes        | 250                                  | 28  | 796                 | 24  |                                      |                     |                          |
|                                                                                                                                                  |               | 3                   | Often            | 256                                  | 29  | 830                 | 23  |                                      |                     |                          |
|                                                                                                                                                  |               | 4                   | Very often       | 307                                  | 32  | 1,613               | 41  |                                      |                     |                          |
|                                                                                                                                                  |               |                     | Total            | 904                                  | 100 | 3,553               | 100 |                                      |                     |                          |
| n. Prioritized what tasks need to be accomplished                                                                                                | TRN01n21      | 1                   | Never            | 28                                   | 3   | 66                  | 2   | <b>3.1</b>                           | 3.3 ***             | -.16                     |
|                                                                                                                                                  |               | 2                   | Sometimes        | 173                                  | 20  | 553                 | 17  |                                      |                     |                          |
|                                                                                                                                                  |               | 3                   | Often            | 328                                  | 37  | 1,137               | 32  |                                      |                     |                          |
|                                                                                                                                                  |               | 4                   | Very often       | 370                                  | 40  | 1,797               | 48  |                                      |                     |                          |
|                                                                                                                                                  |               |                     | Total            | 899                                  | 100 | 3,553               | 100 |                                      |                     |                          |
| o. Worked longer hours than usual to meet deadlines (i.e., after midnight, before dawn)                                                          | TRN01o21      | 1                   | Never            | 64                                   | 8   | 230                 | 7   | <b>2.9</b>                           | 3.0                 | -.06                     |
|                                                                                                                                                  |               | 2                   | Sometimes        | 234                                  | 26  | 897                 | 26  |                                      |                     |                          |
|                                                                                                                                                  |               | 3                   | Often            | 273                                  | 30  | 996                 | 28  |                                      |                     |                          |
|                                                                                                                                                  |               | 4                   | Very often       | 333                                  | 36  | 1,434               | 40  |                                      |                     |                          |
|                                                                                                                                                  |               |                     | Total            | 904                                  | 100 | 3,557               | 100 |                                      |                     |                          |
| p. Written something (paper, report, article, etc.) that used information from a variety of sources (books, journals, Internet, databases, etc.) | TRN01p21      | 1                   | Never            | 44                                   | 5   | 146                 | 4   | <b>2.9</b>                           | 2.9                 | -.02                     |
|                                                                                                                                                  |               | 2                   | Sometimes        | 279                                  | 31  | 1,025               | 31  |                                      |                     |                          |
|                                                                                                                                                  |               | 3                   | Often            | 303                                  | 34  | 1,258               | 36  |                                      |                     |                          |
|                                                                                                                                                  |               | 4                   | Very often       | 276                                  | 29  | 1,119               | 29  |                                      |                     |                          |
|                                                                                                                                                  |               |                     | Total            | 902                                  | 100 | 3,548               | 100 |                                      |                     |                          |
| q. Written something (paper, report, article, etc.) that assessed the conclusions of a published work                                            | TRN01q21      | 1                   | Never            | 119                                  | 14  | 495                 | 15  | <b>2.6</b>                           | 2.5                 | .04                      |
|                                                                                                                                                  |               | 2                   | Sometimes        | 325                                  | 36  | 1,246               | 37  |                                      |                     |                          |
|                                                                                                                                                  |               | 3                   | Often            | 271                                  | 30  | 1,105               | 31  |                                      |                     |                          |
|                                                                                                                                                  |               | 4                   | Very often       | 185                                  | 20  | 697                 | 18  |                                      |                     |                          |
|                                                                                                                                                  |               |                     | Total            | 900                                  | 100 | 3,543               | 100 |                                      |                     |                          |

# NSSE 2022 Development of Transferable Skills

## Frequencies and Statistical Comparisons

### The University of Texas at Arlington

#### First-Year Students

| Item wording or description                                                                                    | Variable name | Values <sup>c</sup> | Response options | Frequency Distributions <sup>a</sup> |     |                     |     | Statistical Comparisons <sup>b</sup> |                     |                          |
|----------------------------------------------------------------------------------------------------------------|---------------|---------------------|------------------|--------------------------------------|-----|---------------------|-----|--------------------------------------|---------------------|--------------------------|
|                                                                                                                |               |                     |                  | UTA                                  |     | Transferable Skills |     | UTA                                  | Transferable Skills |                          |
|                                                                                                                |               |                     |                  | Count                                | %   | Count               | %   | Mean                                 | Mean                | Effect size <sup>d</sup> |
| r. Written something (paper, report, article, etc.) that included ideas from more than one academic discipline | TRN01r21      | 1                   | Never            | 133                                  | 15  | 596                 | 18  | <b>2.5</b>                           | 2.4 **              | .12                      |
|                                                                                                                |               | 2                   | Sometimes        | 337                                  | 37  | 1,408               | 40  |                                      |                     |                          |
|                                                                                                                |               | 3                   | Often            | 262                                  | 30  | 959                 | 26  |                                      |                     |                          |
|                                                                                                                |               | 4                   | Very often       | 167                                  | 18  | 586                 | 16  |                                      |                     |                          |
|                                                                                                                |               |                     | Total            | 899                                  | 100 | 3,549               | 100 |                                      |                     |                          |
| s. Written something (paper, report, article, etc.) that presented multiple viewpoints or perspectives         | TRN01s21      | 1                   | Never            | 88                                   | 10  | 356                 | 11  | <b>2.6</b>                           | 2.5 *               | .08                      |
|                                                                                                                |               | 2                   | Sometimes        | 341                                  | 38  | 1,406               | 41  |                                      |                     |                          |
|                                                                                                                |               | 3                   | Often            | 295                                  | 33  | 1,142               | 31  |                                      |                     |                          |
|                                                                                                                |               | 4                   | Very often       | 179                                  | 19  | 647                 | 17  |                                      |                     |                          |
|                                                                                                                |               |                     | Total            | 903                                  | 100 | 3,551               | 100 |                                      |                     |                          |

\*p<.05, \*\*p<.01, \*\*\*p<.001 (2-tailed); Refer to the endnotes page for the key to triangle symbols.

## Seniors

| Item wording or description                                                                                                | Variable name | Values <sup>c</sup> | Response options | Frequency Distributions <sup>a</sup> |     |                     |     | Statistical Comparisons <sup>b</sup> |                     |                          |
|----------------------------------------------------------------------------------------------------------------------------|---------------|---------------------|------------------|--------------------------------------|-----|---------------------|-----|--------------------------------------|---------------------|--------------------------|
|                                                                                                                            |               |                     |                  | UTA                                  |     | Transferable Skills |     | UTA                                  | Transferable Skills |                          |
|                                                                                                                            |               |                     |                  | Count                                | %   | Count               | %   | Mean                                 | Mean                | Effect size <sup>d</sup> |
| <b>1. During the current school year, whether course-related or not, about how often have you done the following?</b>      |               |                     |                  |                                      |     |                     |     |                                      |                     |                          |
| a. Discussed or debated an issue of social, political, or philosophical importance                                         | TRN01a21      | 1                   | Never            | 667                                  | 31  | 775                 | 19  | <b>2.2</b>                           | 2.4 ***             | -0.26                    |
|                                                                                                                            |               | 2                   | Sometimes        | 712                                  | 33  | 1,591               | 37  |                                      |                     |                          |
|                                                                                                                            |               | 3                   | Often            | 471                                  | 22  | 1,136               | 26  |                                      |                     |                          |
|                                                                                                                            |               | 4                   | Very often       | 295                                  | 14  | 838                 | 19  |                                      |                     |                          |
|                                                                                                                            |               | Total               |                  | 2,145                                | 100 | 4,340               | 100 |                                      |                     |                          |
| b. Made a speech to a group                                                                                                | TRN01b21      | 1                   | Never            | 980                                  | 45  | 1,313               | 29  | <b>1.9</b>                           | 2.1 ***             | -0.26                    |
|                                                                                                                            |               | 2                   | Sometimes        | 707                                  | 33  | 1,771               | 42  |                                      |                     |                          |
|                                                                                                                            |               | 3                   | Often            | 291                                  | 14  | 841                 | 19  |                                      |                     |                          |
|                                                                                                                            |               | 4                   | Very often       | 166                                  | 8   | 405                 | 10  |                                      |                     |                          |
|                                                                                                                            |               | Total               |                  | 2,144                                | 100 | 4,330               | 100 |                                      |                     |                          |
| c. Worked in a group with people who differed from you in terms of background, political orientation, points of view, etc. | TRN01c21      | 1                   | Never            | 374                                  | 17  | 333                 | 8   | <b>2.6</b>                           | 2.8 ***             | -0.16                    |
|                                                                                                                            |               | 2                   | Sometimes        | 598                                  | 28  | 1,372               | 31  |                                      |                     |                          |
|                                                                                                                            |               | 3                   | Often            | 650                                  | 31  | 1,591               | 36  |                                      |                     |                          |
|                                                                                                                            |               | 4                   | Very often       | 520                                  | 24  | 1,039               | 25  |                                      |                     |                          |
|                                                                                                                            |               | Total               |                  | 2,142                                | 100 | 4,335               | 100 |                                      |                     |                          |
| d. Discussed the ethical consequences of a course of action                                                                | TRN01d21      | 1                   | Never            | 436                                  | 21  | 651                 | 16  | <b>2.4</b>                           | 2.5 *               | -0.06                    |
|                                                                                                                            |               | 2                   | Sometimes        | 731                                  | 35  | 1,611               | 38  |                                      |                     |                          |
|                                                                                                                            |               | 3                   | Often            | 616                                  | 29  | 1,397               | 31  |                                      |                     |                          |
|                                                                                                                            |               | 4                   | Very often       | 354                                  | 16  | 680                 | 16  |                                      |                     |                          |
|                                                                                                                            |               | Total               |                  | 2,137                                | 100 | 4,339               | 100 |                                      |                     |                          |
| e. Evaluated the credibility of information sources                                                                        | TRN01e21      | 1                   | Never            | 244                                  | 12  | 325                 | 8   | <b>2.8</b>                           | 2.8 *               | -0.06                    |
|                                                                                                                            |               | 2                   | Sometimes        | 585                                  | 28  | 1,252               | 28  |                                      |                     |                          |
|                                                                                                                            |               | 3                   | Often            | 712                                  | 33  | 1,685               | 39  |                                      |                     |                          |
|                                                                                                                            |               | 4                   | Very often       | 588                                  | 27  | 1,071               | 25  |                                      |                     |                          |
|                                                                                                                            |               | Total               |                  | 2,129                                | 100 | 4,333               | 100 |                                      |                     |                          |
| f. Discussed complex problems with others to develop a better solution                                                     | TRN01f21      | 1                   | Never            | 300                                  | 14  | 373                 | 9   | <b>2.6</b>                           | 2.7 ***             | -0.09                    |
|                                                                                                                            |               | 2                   | Sometimes        | 649                                  | 31  | 1,340               | 31  |                                      |                     |                          |
|                                                                                                                            |               | 3                   | Often            | 715                                  | 33  | 1,695               | 39  |                                      |                     |                          |
|                                                                                                                            |               | 4                   | Very often       | 471                                  | 22  | 922                 | 21  |                                      |                     |                          |
|                                                                                                                            |               | Total               |                  | 2,135                                | 100 | 4,330               | 100 |                                      |                     |                          |
| g. Generated multiple solutions to a problem or task                                                                       | TRN01g21      | 1                   | Never            | 259                                  | 12  | 284                 | 7   | <b>2.7</b>                           | 2.8 ***             | -0.10                    |
|                                                                                                                            |               | 2                   | Sometimes        | 662                                  | 31  | 1,392               | 32  |                                      |                     |                          |
|                                                                                                                            |               | 3                   | Often            | 746                                  | 35  | 1,726               | 39  |                                      |                     |                          |
|                                                                                                                            |               | 4                   | Very often       | 462                                  | 22  | 922                 | 21  |                                      |                     |                          |
|                                                                                                                            |               | Total               |                  | 2,129                                | 100 | 4,324               | 100 |                                      |                     |                          |
| h. Combined dissimilar concepts to create a novel idea                                                                     | TRN01h21      | 1                   | Never            | 523                                  | 25  | 904                 | 21  | <b>2.3</b>                           | 2.3                 | .00                      |
|                                                                                                                            |               | 2                   | Sometimes        | 770                                  | 37  | 1,829               | 41  |                                      |                     |                          |
|                                                                                                                            |               | 3                   | Often            | 538                                  | 25  | 1,097               | 25  |                                      |                     |                          |
|                                                                                                                            |               | 4                   | Very often       | 289                                  | 14  | 492                 | 12  |                                      |                     |                          |
|                                                                                                                            |               | Total               |                  | 2,120                                | 100 | 4,322               | 100 |                                      |                     |                          |
| i. Adapted a previously used solution to a new situation                                                                   | TRN01i21      | 1                   | Never            | 314                                  | 15  | 467                 | 11  | <b>2.5</b>                           | 2.6                 | -0.01                    |
|                                                                                                                            |               | 2                   | Sometimes        | 716                                  | 34  | 1,667               | 38  |                                      |                     |                          |
|                                                                                                                            |               | 3                   | Often            | 709                                  | 34  | 1,522               | 35  |                                      |                     |                          |
|                                                                                                                            |               | 4                   | Very often       | 373                                  | 18  | 657                 | 16  |                                      |                     |                          |
|                                                                                                                            |               | Total               |                  | 2,112                                | 100 | 4,313               | 100 |                                      |                     |                          |

\*p<.05, \*\*p<.01, \*\*\*p<.001 (2-tailed); Refer to the endnotes page for the key to triangle symbols.

## Seniors

| Item wording or description                                                                                                                      | Variable name | Values <sup>c</sup> | Response options | Frequency Distributions <sup>a</sup> |     |                     |     | Statistical Comparisons <sup>b</sup> |                     |                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------------|------------------|--------------------------------------|-----|---------------------|-----|--------------------------------------|---------------------|--------------------------|
|                                                                                                                                                  |               |                     |                  | UTA                                  |     | Transferable Skills |     | UTA                                  | Transferable Skills |                          |
|                                                                                                                                                  |               |                     |                  | Count                                | %   | Count               | %   | Mean                                 | Mean                | Effect size <sup>d</sup> |
| j. Referred to online content (tutorial, forum, webpage, etc.) to solve a problem                                                                | TRN01j21      | 1                   | Never            | 148                                  | 7   | 174                 | 4   | <b>3.0</b>                           | 3.1 ***             | -0.11                    |
|                                                                                                                                                  |               | 2                   | Sometimes        | 527                                  | 25  | 981                 | 23  |                                      |                     |                          |
|                                                                                                                                                  |               | 3                   | Often            | 701                                  | 33  | 1,603               | 36  |                                      |                     |                          |
|                                                                                                                                                  |               | 4                   | Very often       | 739                                  | 35  | 1,558               | 36  |                                      |                     |                          |
|                                                                                                                                                  |               |                     | Total            | 2,115                                | 100 | 4,316               | 100 |                                      |                     |                          |
| k. Referred to online content (tutorial, forum, webpage, etc.) to learn a new skill or procedure                                                 | TRN01k21      | 1                   | Never            | 152                                  | 7   | 178                 | 4   | <b>3.0</b>                           | 3.0 **              | -0.08                    |
|                                                                                                                                                  |               | 2                   | Sometimes        | 516                                  | 24  | 1,030               | 24  |                                      |                     |                          |
|                                                                                                                                                  |               | 3                   | Often            | 721                                  | 34  | 1,599               | 36  |                                      |                     |                          |
|                                                                                                                                                  |               | 4                   | Very often       | 727                                  | 34  | 1,508               | 35  |                                      |                     |                          |
|                                                                                                                                                  |               |                     | Total            | 2,116                                | 100 | 4,315               | 100 |                                      |                     |                          |
| l. Used project management tools to plan, organize, or schedule tasks                                                                            | TRN01l21      | 1                   | Never            | 325                                  | 16  | 516                 | 12  | <b>2.6</b>                           | 2.6 **              | -0.08                    |
|                                                                                                                                                  |               | 2                   | Sometimes        | 688                                  | 33  | 1,375               | 33  |                                      |                     |                          |
|                                                                                                                                                  |               | 3                   | Often            | 660                                  | 31  | 1,487               | 33  |                                      |                     |                          |
|                                                                                                                                                  |               | 4                   | Very often       | 445                                  | 21  | 930                 | 22  |                                      |                     |                          |
|                                                                                                                                                  |               |                     | Total            | 2,118                                | 100 | 4,308               | 100 |                                      |                     |                          |
| m. Used a daily or weekly "to do" list                                                                                                           | TRN01m21      | 1                   | Never            | 181                                  | 9   | 330                 | 9   | <b>3.0</b>                           | 3.1 **              | -0.07                    |
|                                                                                                                                                  |               | 2                   | Sometimes        | 449                                  | 22  | 910                 | 22  |                                      |                     |                          |
|                                                                                                                                                  |               | 3                   | Often            | 614                                  | 29  | 1,067               | 25  |                                      |                     |                          |
|                                                                                                                                                  |               | 4                   | Very often       | 875                                  | 40  | 2,012               | 45  |                                      |                     |                          |
|                                                                                                                                                  |               |                     | Total            | 2,119                                | 100 | 4,319               | 100 |                                      |                     |                          |
| n. Prioritized what tasks need to be accomplished                                                                                                | TRN01n21      | 1                   | Never            | 64                                   | 3   | 66                  | 2   | <b>3.3</b>                           | 3.4 ***             | -0.10                    |
|                                                                                                                                                  |               | 2                   | Sometimes        | 278                                  | 14  | 524                 | 13  |                                      |                     |                          |
|                                                                                                                                                  |               | 3                   | Often            | 705                                  | 34  | 1,347               | 31  |                                      |                     |                          |
|                                                                                                                                                  |               | 4                   | Very often       | 1,067                                | 49  | 2,378               | 54  |                                      |                     |                          |
|                                                                                                                                                  |               |                     | Total            | 2,114                                | 100 | 4,315               | 100 |                                      |                     |                          |
| o. Worked longer hours than usual to meet deadlines (i.e., after midnight, before dawn)                                                          | TRN01o21      | 1                   | Never            | 122                                  | 6   | 257                 | 6   | <b>3.1</b>                           | 3.1                 | -0.01                    |
|                                                                                                                                                  |               | 2                   | Sometimes        | 484                                  | 23  | 1,012               | 24  |                                      |                     |                          |
|                                                                                                                                                  |               | 3                   | Often            | 631                                  | 30  | 1,182               | 27  |                                      |                     |                          |
|                                                                                                                                                  |               | 4                   | Very often       | 880                                  | 41  | 1,866               | 43  |                                      |                     |                          |
|                                                                                                                                                  |               |                     | Total            | 2,117                                | 100 | 4,317               | 100 |                                      |                     |                          |
| p. Written something (paper, report, article, etc.) that used information from a variety of sources (books, journals, Internet, databases, etc.) | TRN01p21      | 1                   | Never            | 118                                  | 6   | 229                 | 5   | <b>3.1</b>                           | 3.0 ***             | .10                      |
|                                                                                                                                                  |               | 2                   | Sometimes        | 410                                  | 20  | 1,102               | 26  |                                      |                     |                          |
|                                                                                                                                                  |               | 3                   | Often            | 682                                  | 32  | 1,384               | 32  |                                      |                     |                          |
|                                                                                                                                                  |               | 4                   | Very often       | 906                                  | 42  | 1,595               | 37  |                                      |                     |                          |
|                                                                                                                                                  |               |                     | Total            | 2,116                                | 100 | 4,310               | 100 |                                      |                     |                          |
| q. Written something (paper, report, article, etc.) that assessed the conclusions of a published work                                            | TRN01q21      | 1                   | Never            | 256                                  | 12  | 673                 | 16  | <b>2.8</b>                           | 2.6 ***             | .19                      |
|                                                                                                                                                  |               | 2                   | Sometimes        | 595                                  | 29  | 1,464               | 34  |                                      |                     |                          |
|                                                                                                                                                  |               | 3                   | Often            | 604                                  | 28  | 1,183               | 27  |                                      |                     |                          |
|                                                                                                                                                  |               | 4                   | Very often       | 658                                  | 30  | 991                 | 23  |                                      |                     |                          |
|                                                                                                                                                  |               |                     | Total            | 2,113                                | 100 | 4,311               | 100 |                                      |                     |                          |

\*p<.05, \*\*p<.01, \*\*\*p<.001 (2-tailed); Refer to the endnotes page for the key to triangle symbols.

## Seniors

| Item wording or description                                                                                    | Variable name | Values <sup>c</sup> | Response options | Frequency Distributions <sup>a</sup> |     |                     |     | Statistical Comparisons <sup>b</sup> |                     |                          |
|----------------------------------------------------------------------------------------------------------------|---------------|---------------------|------------------|--------------------------------------|-----|---------------------|-----|--------------------------------------|---------------------|--------------------------|
|                                                                                                                |               |                     |                  | UTA                                  |     | Transferable Skills |     | UTA                                  | Transferable Skills |                          |
|                                                                                                                |               |                     |                  | Count                                | %   | Count               | %   | Mean                                 | Mean                | Effect size <sup>d</sup> |
| r. Written something (paper, report, article, etc.) that included ideas from more than one academic discipline | TRN01r21      | 1                   | Never            | 264                                  | 13  | 634                 | 15  | <b>2.7</b>                           | 2.6 ***             | .15                      |
|                                                                                                                |               | 2                   | Sometimes        | 622                                  | 30  | 1,508               | 35  |                                      |                     |                          |
|                                                                                                                |               | 3                   | Often            | 639                                  | 30  | 1,232               | 28  |                                      |                     |                          |
|                                                                                                                |               | 4                   | Very often       | 590                                  | 27  | 941                 | 22  |                                      |                     |                          |
|                                                                                                                |               |                     | Total            | 2,115                                | 100 | 4,315               | 100 |                                      |                     |                          |
| s. Written something (paper, report, article, etc.) that presented multiple viewpoints or perspectives         | TRN01s21      | 1                   | Never            | 240                                  | 12  | 534                 | 13  | <b>2.7</b>                           | 2.6 ***             | .14                      |
|                                                                                                                |               | 2                   | Sometimes        | 670                                  | 32  | 1,617               | 38  |                                      |                     |                          |
|                                                                                                                |               | 3                   | Often            | 643                                  | 30  | 1,308               | 29  |                                      |                     |                          |
|                                                                                                                |               | 4                   | Very often       | 556                                  | 26  | 857                 | 20  |                                      |                     |                          |
|                                                                                                                |               |                     | Total            | 2,109                                | 100 | 4,316               | 100 |                                      |                     |                          |

\*p<.05, \*\*p<.01, \*\*\*p<.001 (2-tailed); Refer to the endnotes page for the key to triangle symbols.

#### First-Year Students

| Variable name | N   | Mean                                     |                     | Standard error <sup>f</sup> |                     | Standard deviation <sup>g</sup> |                     | DF <sup>h</sup> | Sig. <sup>i</sup> | Effect size <sup>d</sup> |
|---------------|-----|------------------------------------------|---------------------|-----------------------------|---------------------|---------------------------------|---------------------|-----------------|-------------------|--------------------------|
|               | UTA | UTA                                      | Transferable Skills | UTA                         | Transferable Skills | UTA                             | Transferable Skills |                 |                   |                          |
|               |     | Comparisons with:<br>Transferable Skills |                     |                             |                     |                                 |                     |                 |                   |                          |
| TRN01a21      | 908 | 2.19                                     | 2.37                | .032                        | .013                | 0.96                            | 0.94                | 6,112           | .000              | -.20                     |
| TRN01b21      | 903 | 1.80                                     | 1.87                | .029                        | .013                | 0.87                            | 0.91                | 6,095           | .032              | -.08                     |
| TRN01c21      | 906 | 2.65                                     | 2.52                | .030                        | .012                | 0.91                            | 0.88                | 6,100           | .000              | .14                      |
| TRN01d21      | 905 | 2.27                                     | 2.28                | .030                        | .012                | 0.92                            | 0.90                | 6,104           | .709              | -.01                     |
| TRN01e21      | 903 | 2.65                                     | 2.65                | .031                        | .012                | 0.93                            | 0.87                | 1,192           | .978              | .00                      |
| TRN01f21      | 902 | 2.53                                     | 2.47                | .030                        | .012                | 0.91                            | 0.87                | 1,205           | .095              | .06                      |
| TRN01g21      | 901 | 2.60                                     | 2.56                | .030                        | .012                | 0.89                            | 0.84                | 1,192           | .278              | .04                      |
| TRN01h21      | 900 | 2.22                                     | 2.09                | .030                        | .012                | 0.91                            | 0.88                | 1,209           | .000              | .14                      |
| TRN01i21      | 903 | 2.48                                     | 2.39                | .029                        | .012                | 0.87                            | 0.85                | 6,087           | .002              | .11                      |
| TRN01j21      | 903 | 2.84                                     | 2.95                | .030                        | .012                | 0.91                            | 0.87                | 1,213           | .001              | -.12                     |
| TRN01k21      | 904 | 2.82                                     | 2.90                | .030                        | .012                | 0.92                            | 0.88                | 1,211           | .010              | -.10                     |
| TRN01l21      | 902 | 2.51                                     | 2.46                | .030                        | .013                | 0.91                            | 0.92                | 6,073           | .152              | .05                      |
| TRN01m21      | 904 | 2.83                                     | 2.95                | .033                        | .015                | 1.00                            | 1.05                | 6,078           | .001              | -.12                     |
| TRN01n21      | 899 | 3.14                                     | 3.27                | .028                        | .011                | 0.84                            | 0.82                | 6,065           | .000              | -.16                     |
| TRN01o21      | 905 | 2.95                                     | 3.01                | .032                        | .013                | 0.96                            | 0.96                | 6,080           | .080              | -.06                     |
| TRN01p21      | 903 | 2.87                                     | 2.89                | .030                        | .012                | 0.90                            | 0.88                | 6,064           | .547              | -.02                     |
| TRN01q21      | 900 | 2.55                                     | 2.52                | .032                        | .013                | 0.96                            | 0.95                | 6,052           | .280              | .04                      |
| TRN01r21      | 900 | 2.50                                     | 2.39                | .032                        | .013                | 0.95                            | 0.95                | 6,064           | .001              | .12                      |
| TRN01s21      | 903 | 2.60                                     | 2.53                | .030                        | .013                | 0.91                            | 0.90                | 6,069           | .030              | .08                      |

#### Seniors

| Variable name | N                                        | Mean |                     | Standard error <sup>f</sup> |                     | Standard deviation <sup>g</sup> |                     | DF <sup>h</sup> | Sig. <sup>i</sup> | Effect size <sup>d</sup> |
|---------------|------------------------------------------|------|---------------------|-----------------------------|---------------------|---------------------------------|---------------------|-----------------|-------------------|--------------------------|
|               | UTA                                      | UTA  | Transferable Skills | UTA                         | Transferable Skills | UTA                             | Transferable Skills |                 |                   |                          |
|               | Comparisons with:<br>Transferable Skills |      |                     |                             |                     |                                 |                     |                 |                   |                          |
| TRN01a21      | 2,152                                    | 2.18 | 2.45                | .022                        | .013                | 1.02                            | 1.00                | 8,511           | .000              | -.26                     |
| TRN01b21      | 2,150                                    | 1.85 | 2.10                | .020                        | .012                | 0.94                            | 0.93                | 3,685           | .000              | -.26                     |
| TRN01c21      | 2,149                                    | 2.62 | 2.77                | .022                        | .011                | 1.03                            | 0.91                | 3,354           | .000              | -.16                     |
| TRN01d21      | 2,143                                    | 2.40 | 2.46                | .021                        | .012                | 0.99                            | 0.94                | 3,521           | .013              | -.06                     |
| TRN01e21      | 2,137                                    | 2.76 | 2.82                | .021                        | .011                | 0.98                            | 0.90                | 3,431           | .016              | -.06                     |
| TRN01f21      | 2,143                                    | 2.63 | 2.72                | .021                        | .011                | 0.97                            | 0.90                | 3,454           | .000              | -.09                     |
| TRN01g21      | 2,136                                    | 2.66 | 2.75                | .020                        | .011                | 0.95                            | 0.87                | 3,422           | .000              | -.10                     |
| TRN01h21      | 2,128                                    | 2.28 | 2.28                | .021                        | .012                | 0.98                            | 0.93                | 3,499           | .977              | .00                      |
| TRN01i21      | 2,122                                    | 2.55 | 2.55                | .021                        | .011                | 0.95                            | 0.89                | 3,449           | .781              | -.01                     |
| TRN01j21      | 2,125                                    | 2.96 | 3.05                | .020                        | .011                | 0.94                            | 0.87                | 3,436           | .000              | -.11                     |
| TRN01k21      | 2,126                                    | 2.96 | 3.02                | .020                        | .011                | 0.94                            | 0.87                | 3,448           | .004              | -.08                     |
| TRN01l21      | 2,127                                    | 2.56 | 2.64                | .021                        | .012                | 0.99                            | 0.95                | 3,545           | .002              | -.08                     |
| TRN01m21      | 2,128                                    | 2.99 | 3.06                | .022                        | .013                | 1.00                            | 1.00                | 3,679           | .006              | -.07                     |
| TRN01n21      | 2,123                                    | 3.29 | 3.38                | .018                        | .010                | 0.82                            | 0.77                | 3,477           | .000              | -.10                     |
| TRN01o21      | 2,126                                    | 3.06 | 3.07                | .020                        | .012                | 0.94                            | 0.95                | 3,713           | .750              | -.01                     |
| TRN01p21      | 2,125                                    | 3.10 | 3.00                | .020                        | .012                | 0.92                            | 0.92                | 8,431           | .000              | .10                      |
| TRN01q21      | 2,122                                    | 2.76 | 2.57                | .022                        | .013                | 1.02                            | 1.01                | 8,440           | .000              | .19                      |
| TRN01r21      | 2,124                                    | 2.72 | 2.57                | .022                        | .012                | 1.00                            | 0.99                | 8,447           | .000              | .15                      |
| TRN01s21      | 2,117                                    | 2.69 | 2.56                | .021                        | .012                | 0.98                            | 0.95                | 3,526           | .000              | .14                      |

## 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 *N*s 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.
- △ **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.