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## Learning with Technology Module

Developed in partnership with EDUCAUSE, these questions examine the role of technology in student learning, focusing on student use of technology and perceptions of institutional support.

## Learning with Technology Comparison Group

This section summarizes how your Learning with Technology module's comparison group was identified, including selection criteria and whether the default option was taken. This is followed by the resulting list of institutions represented in the 'Learning with Tech' column of this report.

| | |
|---|---|
| Group label | Learning with Tech |
| Date submitted | Not applicable; comparison group not customized. |
| How was this comparison group constructed? | Your institution did not customize this comparison group; the default group (all module participants) was used. |
| Group description | Default comparison group |

## 'Learning with Tech' institutions (N=78)

Abilene Christian University (Abilene, TX)

Alaska Pacific University (Anchorage, AK)

Alverno College (Milwaukee, WI)

Auburn University at Montgomery (Montgomery, AL)

Bacone College (Muskogee, OK)

Baptist Memorial College of Health Sciences (Memphis, TN)

Barton College (Wilson, NC)

Benedictine University (Lisle, IL)

Brigham Young University (Provo, UT)

Brigham Young University-Hawaii (Laie, HI)

Buena Vista University (Storm Lake, IA)

Capital University (Columbus, OH)

Centre College (Danville, KY)

Coleman University (San Diego, CA)

Colorado College (Colorado Springs, CO)

Concordia University (Portland, OR)

Concordia University-Wisconsin (Mequon, WI)

Cornerstone University (Grand Rapids, MI)

Culver-Stockton College (Canton, MO)

DeVry University-California (Pomona, CA)

DeVry University-Georgia (Decatur, GA)

DeVry University-Illinois (Addison, IL)

DeVry University-Texas (Irving, TX)

Emporia State University (Emporia, KS)

Franklin W. Olin College of Engineering (Needham, MA)

George Fox University (Newberg, OR)

Goshen College (Goshen, IN)

Grand Canyon University (Phoenix, AZ)

Grand Valley State University (Allendale, MI)

Greensboro College (Greensboro, NC)

Holy Family University (Philadelphia, PA)

Johnson & Wales University (Providence, RI)

Johnson & Wales University-Charlotte (Charlotte, NC)

Johnson & Wales University-Denver (Denver, CO)

Johnson & Wales University-North Miami (North Miami, FL)

Lebanon Valley College (Annville, PA)

Liberty University (Lynchburg, VA)

Limestone College (Gaffney, SC)

Lubbock Christian University (Lubbock, TX)

Manhattanville College (Purchase, NY)

Maranatha Baptist Bible College (Watertown, WI)

Marist College (Poughkeepsie, NY)

Martin Methodist College (Pulaski, TN)

McPherson College (McPherson, KS)

Methodist University (Fayetteville, NC)

Metropolitan State University of Denver (Denver, CO)

Mississippi University for Women (Columbus, MS)

Ohio State University at Newark, The (Newark, OH)

Ohio State University-Mansfield Campus (Mansfield, OH)

Ohio State University-Marion Campus (Marion, OH)

Pace University (New York, NY)

Rivier University (Nashua, NH)

Rochester Institute of Technology (Rochester, NY)

Savannah College of Art and Design (Savannah, GA)

School of Visual Arts (New York, NY)

Shenandoah University (Winchester, VA)

Simpson University (Redding, CA)

Southern Utah University (Cedar City, UT)

Texas A&M University - Kingsville (Kingsville, TX)

Tyndale University College and Seminary (Toronto, ON)

## 'Learning with Tech' institutions (N=78), continued

University of Advancing Technology (Tempe, AZ)

University of Alabama (Tuscaloosa, AL)

University of Alabama in Huntsville (Huntsville, AL)

University of Maine at Augusta (Augusta, ME)

University of Northern British Columbia (Prince George, BC)

University of Pittsburgh-Bradford (Bradford, PA)

University of Rhode Island (Kingston, RI)

University of Tennessee Martin, The (Martin, TN)

University of Texas at Arlington, The (Arlington, TX)

University of Texas at El Paso, The (El Paso, TX)

Valley City State University (Valley City, ND)

Virginia Wesleyan College (Norfolk, VA)

Walla Walla University (College Place, WA)

Warner University (Lake Wales, FL)

Wheaton College (Norton, MA)

Wichita State University (Wichita, KS)

William Jewell College (Liberty, MO)

Wright State University (Dayton, OH)

# NSSE 2013 Learning with Technology
## Frequencies and Statistical Comparisons
## Hope College

## First-Year Students

| | | | | Frequency Distributions[a] | | | | Statistical Comparisons[b] | | |
| | | | | Hope | | Learning with Tech | | Hope | Learning with Tech | |
| Item wording or description | Variable name | Values[c] | Response options | Count | % | Count | % | Mean | Mean | Effect size[d] |
|---|---|---|---|---|---|---|---|---|---|---|
| **1. During the current school year, how much has your use of technology contributed to the following:** | | | | | | | | | | |
| a. Your understanding of course materials and ideas | TEC01a | 1 | Very little | 4 | 1 | 453 | 3 | | | |
| | | 2 | Some | 52 | 16 | 2,563 | 14 | | | |
| | | 3 | Quite a bit | 144 | 45 | 6,844 | 38 | 3.2 | 3.3 | -.08 |
| | | 4 | Very much | 122 | 38 | 8,237 | 45 | | | |
| | | | Total | 322 | 100 | 18,097 | 100 | | | |
| b. Demonstrating your understanding of course content | TEC01b | 1 | Very little | 3 | 1 | 550 | 3 | | | |
| | | 2 | Some | 65 | 20 | 3,007 | 17 | | | |
| | | 3 | Quite a bit | 143 | 45 | 7,042 | 39 | 3.1 | 3.2 | -.07 |
| | | 4 | Very much | 112 | 34 | 7,389 | 41 | | | |
| | | | Total | 323 | 100 | 17,988 | 100 | | | |
| c. Learning, studying, or completing coursework **on your own** | TEC01c | 1 | Very little | 2 | 1 | 298 | 2 | | | |
| | | 2 | Some | 28 | 9 | 1,673 | 10 | | | |
| | | 3 | Quite a bit | 136 | 42 | 5,843 | 32 | 3.4 | 3.4 | -.06 |
| | | 4 | Very much | 157 | 48 | 10,229 | 56 | | | |
| | | | Total | 323 | 100 | 18,043 | 100 | | | |
| d. Learning, studying, or completing coursework **with other students** | TEC01d | 1 | Very little | 18 | 6 | 2,161 | 14 | | | |
| | | 2 | Some | 79 | 24 | 4,509 | 25 | | | |
| | | 3 | Quite a bit | 127 | 40 | 5,475 | 30 | 2.9 | 2.8 ** | .13 |
| | | 4 | Very much | 97 | 30 | 5,813 | 32 | | | |
| | | | Total | 321 | 100 | 17,958 | 100 | | | |
| e. Distracting you from completing your coursework | TEC01e | 1 | Very little | 18 | 6 | 3,042 | 19 | | | |
| | | 2 | Some | 90 | 29 | 5,744 | 32 | | | |
| | | 3 | Quite a bit | 118 | 37 | 4,772 | 25 | 2.9 | 2.5 *** | .32 |
| | | 4 | Very much | 94 | 29 | 4,440 | 24 | | | |
| | | | Total | 320 | 100 | 17,998 | 100 | | | |
| **2. During the current school year, how much have your courses improved your understanding and use of technology?** | | | | | | | | | | |
| | TEC02 | 1 | Very little | 39 | 12 | 2,589 | 15 | | | |
| | | 2 | Some | 122 | 38 | 6,169 | 33 | | | |
| | | 3 | Quite a bit | 121 | 38 | 5,773 | 32 | 2.5 | 2.6 | -.05 |
| | | 4 | Very much | 38 | 12 | 3,405 | 20 | | | |
| | | | Total | 320 | 100 | 17,936 | 100 | | | |
| **3. During the current school year, about how often have you used the following technologies in your courses?** | | | | | | | | | | |
| a. Electronic textbooks | TEC03a | 1 | Never | 170 | 52 | 7,403 | 39 | | | |
| | | 2 | Sometimes | 95 | 30 | 5,018 | 27 | | | |
| | | 3 | Often | 43 | 13 | 2,588 | 15 | 1.7 | 2.1 *** | -.41 |
| | | 4 | Very often | 13 | 4 | 2,936 | 19 | | | |
| | | — | I don't know what this is | 2 | 1 | 136 | 1 | | | |
| | | | Total | 323 | 100 | 18,081 | 100 | | | |
| b. Online portfolios or e-portfolios | TEC03b | 1 | Never | 173 | 55 | 8,745 | 48 | | | |
| | | 2 | Sometimes | 53 | 17 | 3,931 | 22 | | | |
| | | 3 | Often | 36 | 11 | 1,698 | 10 | 1.6 | 1.7 ** | -.16 |
| | | 4 | Very often | 15 | 4 | 1,270 | 8 | | | |
| | | — | I don't know what this is | 44 | 13 | 2,351 | 13 | | | |
| | | | Total | 321 | 100 | 17,995 | 100 | | | |

*p<.05, **p<.01, ***p<.001 (2-tailed)

## First-Year Students

| Item wording or description | Variable name | Values[f] | Response options | Frequency Distributions[a] Hope Count | % | Learning with Tech Count | % | Statistical Comparisons[b] Hope Mean | Learning with Tech Mean | Effect size[d] |
|---|---|---|---|---|---|---|---|---|---|---|
| c. Blogs | TEC03c | 1 | Never | 222 | 69 | 10,427 | 57 | | | |
| | | 2 | Sometimes | 72 | 23 | 4,651 | 26 | | | |
| | | 3 | Often | 20 | 6 | 1,652 | 9 | 1.4 | 1.6 *** | -.29 |
| | | 4 | Very often | 2 | 1 | 979 | 6 | | | |
| | | — | I don't know what this is | 3 | 1 | 200 | 1 | | | |
| | | | Total | 319 | 100 | 17,909 | 100 | | | |
| d. Collaborative editing software (Wikis, Google Docs, etc.) | TEC03d | 1 | Never | 36 | 12 | 5,171 | 31 | | | |
| | | 2 | Sometimes | 118 | 38 | 5,804 | 31 | | | |
| | | 3 | Often | 107 | 33 | 3,862 | 21 | 2.6 | 2.2 *** | .34 |
| | | 4 | Very often | 58 | 18 | 2,771 | 15 | | | |
| | | — | I don't know what this is | 0 | 0 | 326 | 2 | | | |
| | | | Total | 319 | 100 | 17,934 | 100 | | | |
| e. Multimedia software (drawing, audio or video production, editing, etc.) | TEC03e | 1 | Never | 192 | 59 | 8,734 | 48 | | | |
| | | 2 | Sometimes | 75 | 24 | 4,497 | 25 | | | |
| | | 3 | Often | 32 | 10 | 2,416 | 14 | 1.6 | 1.9 *** | -.28 |
| | | 4 | Very often | 16 | 5 | 2,080 | 12 | | | |
| | | — | I don't know what this is | 6 | 2 | 240 | 1 | | | |
| | | | Total | 321 | 100 | 17,967 | 100 | | | |
| f. Social networking (Facebook, Twitter, etc.) | TEC03f | 1 | Never | 175 | 54 | 7,419 | 42 | | | |
| | | 2 | Sometimes | 80 | 25 | 4,881 | 26 | | | |
| | | 3 | Often | 33 | 11 | 2,538 | 14 | 1.8 | 2.1 *** | -.27 |
| | | 4 | Very often | 32 | 10 | 3,009 | 17 | | | |
| | | — | I don't know what this is | 2 | 1 | 121 | 1 | | | |
| | | | Total | 322 | 100 | 17,968 | 100 | | | |
| g. Mobile computing (handheld devices such as smartphones, tablets, etc.) | TEC03g | 1 | Never | 133 | 41 | 5,485 | 29 | | | |
| | | 2 | Sometimes | 95 | 30 | 4,807 | 26 | | | |
| | | 3 | Often | 55 | 17 | 3,239 | 19 | 2.0 | 2.4 *** | -.33 |
| | | 4 | Very often | 40 | 13 | 4,353 | 25 | | | |
| | | — | I don't know what this is | 0 | 0 | 95 | 1 | | | |
| | | | Total | 323 | 100 | 17,979 | 100 | | | |

**4. During the current school year, about how often have you used technology to communicate with the following people?**

| Item wording or description | Variable name | Values[f] | Response options | Hope Count | % | Learning with Tech Count | % | Hope Mean | Learning with Tech Mean | Effect size[d] |
|---|---|---|---|---|---|---|---|---|---|---|
| a. Students | TEC04a | 1 | Never | 0 | 0 | 516 | 4 | | | |
| | | 2 | Sometimes | 16 | 5 | 2,350 | 15 | | | |
| | | 3 | Often | 61 | 20 | 4,106 | 23 | 3.7 | 3.4 *** | .40 |
| | | 4 | Very often | 245 | 76 | 11,086 | 59 | | | |
| | | | Total | 322 | 100 | 18,058 | 100 | | | |
| b. Academic advisors | TEC04b | 1 | Never | 9 | 3 | 2,409 | 14 | | | |
| | | 2 | Sometimes | 87 | 28 | 5,922 | 34 | | | |
| | | 3 | Often | 110 | 33 | 4,899 | 26 | 3.0 | 2.6 *** | .38 |
| | | 4 | Very often | 116 | 36 | 4,809 | 26 | | | |
| | | | Total | 322 | 100 | 18,039 | 100 | | | |
| c. Faculty | TEC04c | 1 | Never | 1 | 0 | 1,123 | 7 | | | |
| | | 2 | Sometimes | 47 | 14 | 5,173 | 30 | | | |
| | | 3 | Often | 121 | 38 | 5,917 | 32 | 3.3 | 2.9 *** | .49 |
| | | 4 | Very often | 153 | 48 | 5,754 | 31 | | | |
| | | | Total | 322 | 100 | 17,967 | 100 | | | |

*p<.05, **p<.01, ***p<.001 (2-tailed)

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## First-Year Students

| | | | | Frequency Distributions[a] | | | | Statistical Comparisons[b] | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Hope | | Learning with Tech | | Hope | Learning with Tech | |
| Item wording or description | Variable name | Values[c] | Response options | Count | % | Count | % | Mean | Mean | Effect size[d] |
| d. Student services staff (career services, student activities, housing, etc.) | TEC04d | 1 | Never | 42 | 13 | 5,234 | 32 | | | |
| | | 2 | Sometimes | 134 | 42 | 6,347 | 34 | | | |
| | | 3 | Often | 71 | 22 | 3,163 | 17 | 2.5 | 2.2 *** | .33 |
| | | 4 | Very often | 74 | 23 | 3,223 | 17 | | | |
| | | | Total | 321 | 100 | 17,967 | 100 | | | |
| e. Other administrative staff and offices (registrar, financial aid, etc.) | TEC04e | 1 | Never | 38 | 12 | 4,367 | 26 | | | |
| | | 2 | Sometimes | 139 | 44 | 7,124 | 39 | | | |
| | | 3 | Often | 69 | 22 | 3,084 | 17 | 2.5 | 2.3 *** | .26 |
| | | 4 | Very often | 73 | 23 | 3,362 | 18 | | | |
| | | | Total | 319 | 100 | 17,937 | 100 | | | |

### 5. How much does your institution emphasize the following?

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| a. Teaching with new, cutting-edge technologies | TEC05a | 1 | Very little | 48 | 15 | 1,846 | 11 | | | |
| | | 2 | Some | 129 | 40 | 5,847 | 32 | | | |
| | | 3 | Quite a bit | 116 | 36 | 6,371 | 35 | 2.4 | 2.7 *** | -.29 |
| | | 4 | Very much | 29 | 9 | 3,983 | 21 | | | |
| | | | Total | 322 | 100 | 18,047 | 100 | | | |
| b. Providing technology to help you learn, study or complete coursework | TEC05b | 1 | Very little | 23 | 7 | 1,081 | 7 | | | |
| | | 2 | Some | 88 | 28 | 4,039 | 23 | | | |
| | | 3 | Quite a bit | 149 | 46 | 7,140 | 39 | 2.8 | 2.9 ** | -.18 |
| | | 4 | Very much | 61 | 19 | 5,761 | 31 | | | |
| | | | Total | 321 | 100 | 18,021 | 100 | | | |
| c. Teaching you how to use available technologies to learn, study, or complete coursework | TEC05c | 1 | Very little | 22 | 7 | 1,322 | 8 | | | |
| | | 2 | Some | 109 | 35 | 4,704 | 27 | | | |
| | | 3 | Quite a bit | 125 | 38 | 6,731 | 36 | 2.7 | 2.9 ** | -.15 |
| | | 4 | Very much | 66 | 20 | 5,263 | 29 | | | |
| | | | Total | 322 | 100 | 18,020 | 100 | | | |
| d. Providing support services to assist you with your use of technology | TEC05d | 1 | Very little | 24 | 7 | 1,491 | 9 | | | |
| | | 2 | Some | 104 | 33 | 4,846 | 27 | | | |
| | | 3 | Quite a bit | 126 | 39 | 6,437 | 35 | 2.7 | 2.8 | -.09 |
| | | 4 | Very much | 68 | 21 | 5,209 | 28 | | | |
| | | | Total | 322 | 100 | 17,983 | 100 | | | |

*p<.05, **p<.01, ***p<.001 (2-tailed)

## Seniors

| Item wording or description | Variable name | Values[c] | Response options | Frequency Distributions[a] | | | | Statistical Comparisons[b] | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Hope | | Learning with Tech | | Hope | Learning with Tech | |
| | | | | Count | % | Count | % | Mean | Mean | Effect size[d] |
| **1. During the current school year, how much has your use of technology contributed to the following:** | | | | | | | | | | |
| a. Your understanding of course materials and ideas | TEC01a | 1 | Very little | 10 | 3 | 713 | 3 | | | |
| | | 2 | Some | 55 | 16 | 3,508 | 12 | | | |
| | | 3 | Quite a bit | 153 | 45 | 9,570 | 33 | 3.1 | 3.3 *** | -.27 |
| | | 4 | Very much | 116 | 35 | 15,707 | 52 | | | |
| | | | Total | 334 | 100 | 29,498 | 100 | | | |
| b. Demonstrating your understanding of course content | TEC01b | 1 | Very little | 13 | 4 | 872 | 3 | | | |
| | | 2 | Some | 56 | 17 | 4,166 | 15 | | | |
| | | 3 | Quite a bit | 152 | 46 | 9,789 | 34 | 3.1 | 3.3 *** | -.23 |
| | | 4 | Very much | 111 | 33 | 14,500 | 48 | | | |
| | | | Total | 332 | 100 | 29,327 | 100 | | | |
| c. Learning, studying, or completing coursework on your own | TEC01c | 1 | Very little | 9 | 3 | 402 | 2 | | | |
| | | 2 | Some | 26 | 8 | 2,163 | 8 | | | |
| | | 3 | Quite a bit | 124 | 37 | 8,186 | 29 | 3.4 | 3.5 ** | -.18 |
| | | 4 | Very much | 173 | 52 | 18,646 | 62 | | | |
| | | | Total | 332 | 100 | 29,397 | 100 | | | |
| d. Learning, studying, or completing coursework with other students | TEC01d | 1 | Very little | 16 | 5 | 3,049 | 11 | | | |
| | | 2 | Some | 70 | 21 | 5,906 | 21 | | | |
| | | 3 | Quite a bit | 125 | 38 | 8,252 | 28 | 3.1 | 3.0 | .08 |
| | | 4 | Very much | 121 | 36 | 12,122 | 40 | | | |
| | | | Total | 332 | 100 | 29,329 | 100 | | | |
| e. Distracting you from completing your coursework | TEC01e | 1 | Very little | 17 | 6 | 6,774 | 24 | | | |
| | | 2 | Some | 85 | 24 | 9,647 | 32 | | | |
| | | 3 | Quite a bit | 116 | 35 | 6,609 | 22 | 3.0 | 2.4 *** | .54 |
| | | 4 | Very much | 116 | 35 | 6,308 | 22 | | | |
| | | | Total | 334 | 100 | 29,338 | 100 | | | |
| **2. During the current school year, how much have your courses improved your understanding and use of technology?** | | | | | | | | | | |
| | TEC02 | 1 | Very little | 55 | 17 | 4,318 | 15 | | | |
| | | 2 | Some | 128 | 38 | 9,139 | 31 | | | |
| | | 3 | Quite a bit | 100 | 30 | 8,950 | 30 | 2.4 | 2.6 *** | -.18 |
| | | 4 | Very much | 50 | 15 | 6,963 | 23 | | | |
| | | | Total | 333 | 100 | 29,370 | 100 | | | |
| **3. During the current school year, about how often have you used the following technologies in your courses?** | | | | | | | | | | |
| a. Electronic textbooks | TEC03a | 1 | Never | 204 | 60 | 12,244 | 41 | | | |
| | | 2 | Sometimes | 92 | 28 | 8,997 | 29 | | | |
| | | 3 | Often | 25 | 8 | 3,929 | 13 | 1.6 | 2.0 *** | -.45 |
| | | 4 | Very often | 12 | 4 | 4,180 | 16 | | | |
| | | — | I don't know what this is | 1 | 0 | 121 | 0 | | | |
| | | | Total | 334 | 100 | 29,471 | 100 | | | |
| b. Online portfolios or e-portfolios | TEC03b | 1 | Never | 181 | 54 | 14,653 | 50 | | | |
| | | 2 | Sometimes | 63 | 20 | 6,270 | 21 | | | |
| | | 3 | Often | 35 | 10 | 2,843 | 10 | 1.7 | 1.7 | -.04 |
| | | 4 | Very often | 29 | 8 | 2,356 | 8 | | | |
| | | — | I don't know what this is | 25 | 7 | 3,218 | 10 | | | |
| | | | Total | 333 | 100 | 29,340 | 100 | | | |

*p<.05, **p<.01, ***p<.001 (2-tailed)

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## Seniors

| Item wording or description | Variable name | Values[c] | Response options | Frequency Distributions[a] Hope Count | % | Learning with Tech Count | % | Statistical Comparisons[b] Hope Mean | Learning with Tech Mean | Effect size[d] |
|---|---|---|---|---|---|---|---|---|---|---|
| c. Blogs | TEC03c | 1 | Never | 200 | 61 | 16,310 | 56 | | | |
| | | 2 | Sometimes | 97 | 29 | 8,218 | 27 | | | |
| | | 3 | Often | 24 | 7 | 2,723 | 9 | 1.5 | 1.6 ** | -.15 |
| | | 4 | Very often | 8 | 3 | 1,674 | 6 | | | |
| | | | I don't know what this is | 2 | 1 | 251 | 1 | | | |
| | | | Total | 331 | 100 | 29,176 | 100 | | | |
| d. Collaborative editing software (Wikis, Google Docs, etc.) | TEC03d | 1 | Never | 32 | 10 | 7,975 | 29 | | | |
| | | 2 | Sometimes | 113 | 35 | 8,632 | 30 | | | |
| | | 3 | Often | 112 | 34 | 6,521 | 22 | 2.7 | 2.3 *** | .34 |
| | | 4 | Very often | 73 | 21 | 5,767 | 18 | | | |
| | | — | I don't know what this is | 2 | 1 | 385 | 1 | | | |
| | | | Total | 332 | 100 | 29,280 | 100 | | | |
| e. Multimedia software (drawing, audio or video production, editing, etc.) | TEC03e | 1 | Never | 160 | 48 | 12,921 | 44 | | | |
| | | 2 | Sometimes | 106 | 32 | 8,003 | 27 | | | |
| | | 3 | Often | 39 | 12 | 4,091 | 14 | 1.8 | 2.0 *** | -.20 |
| | | 4 | Very often | 23 | 7 | 3,991 | 14 | | | |
| | | — | I don't know what this is | 4 | 1 | 311 | 1 | | | |
| | | | Total | 332 | 100 | 29,317 | 100 | | | |
| f. Social networking (Facebook, Twitter, etc.) | TEC03f | 1 | Never | 166 | 50 | 13,466 | 47 | | | |
| | | 2 | Sometimes | 99 | 30 | 7,725 | 26 | | | |
| | | 3 | Often | 35 | 11 | 3,878 | 13 | 1.8 | 1.9 ** | -.16 |
| | | 4 | Very often | 27 | 8 | 3,997 | 14 | | | |
| | | — | I don't know what this is | 3 | 1 | 237 | 1 | | | |
| | | | Total | 330 | 100 | 29,303 | 100 | | | |
| g. Mobile computing (handheld devices such as smartphones, tablets, etc.) | TEC03g | 1 | Never | 134 | 40 | 8,891 | 30 | | | |
| | | 2 | Sometimes | 104 | 31 | 7,487 | 25 | | | |
| | | 3 | Often | 53 | 17 | 5,595 | 19 | 2.0 | 2.4 *** | -.35 |
| | | 4 | Very often | 40 | 12 | 7,263 | 26 | | | |
| | | — | I don't know what this is | 1 | 0 | 140 | 0 | | | |
| | | | Total | 332 | 100 | 29,376 | 100 | | | |

**4. During the current school year, about how often have you used technology to communicate with the following people?**

| Item wording or description | Variable name | Values | Response options | Hope Count | % | Learning with Tech Count | % | Hope Mean | Learning with Tech Mean | Effect size |
|---|---|---|---|---|---|---|---|---|---|---|
| a. Students | TEC04a | 1 | Never | 0 | 0 | 707 | 2 | | | |
| | | 2 | Sometimes | 9 | 3 | 3,520 | 13 | | | |
| | | 3 | Often | 49 | 15 | 6,091 | 21 | 3.8 | 3.5 *** | .41 |
| | | 4 | Very often | 275 | 82 | 19,123 | 64 | | | |
| | | | Total | 333 | 100 | 29,441 | 100 | | | |
| b. Academic advisors | TEC04b | 1 | Never | 13 | 4 | 4,097 | 14 | | | |
| | | 2 | Sometimes | 63 | 19 | 9,144 | 31 | | | |
| | | 3 | Often | 104 | 31 | 6,876 | 24 | 3.2 | 2.7 *** | .44 |
| | | 4 | Very often | 153 | 45 | 9,272 | 31 | | | |
| | | | Total | 333 | 100 | 29,389 | 100 | | | |
| c. Faculty | TEC04c | 1 | Never | 6 | 2 | 951 | 4 | | | |
| | | 2 | Sometimes | 32 | 10 | 6,592 | 24 | | | |
| | | 3 | Often | 112 | 34 | 9,214 | 32 | 3.4 | 3.1 *** | .36 |
| | | 4 | Very often | 183 | 55 | 12,514 | 41 | | | |
| | | | Total | 333 | 100 | 29,271 | 100 | | | |

*p<.05, **p<.01, ***p<.001 (2-tailed)

## Seniors

| Item wording or description | Variable name | Values[f] | Response options | Frequency Distributions[a] | | | | Statistical Comparisons[b] | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Hope | | Learning with Tech | | Hope | Learning with Tech | |
| | | | | Count | % | Count | % | Mean | Mean | Effect size[d] |
| d. Student services staff (career services, student activities, housing, etc.) | TEC04d | 1 | Never | 51 | 16 | 11,141 | 40 | | | |
| | | 2 | Sometimes | 121 | 36 | 8,829 | 30 | | | |
| | | 3 | Often | 65 | 20 | 3,953 | 13 | 2.6 | 2.1 *** | .47 |
| | | 4 | Very often | 95 | 28 | 5,355 | 17 | | | |
| | | | Total | 332 | 100 | 29,278 | 100 | | | |
| e. Other administrative staff and offices (registrar, financial aid, etc.) | TEC04e | 1 | Never | 31 | 9 | 6,709 | 25 | | | |
| | | 2 | Sometimes | 145 | 43 | 11,929 | 41 | | | |
| | | 3 | Often | 69 | 21 | 4,793 | 16 | 2.6 | 2.3 *** | .35 |
| | | 4 | Very often | 86 | 26 | 5,835 | 19 | | | |
| | | | Total | 331 | 100 | 29,266 | 100 | | | |

**5. How much does your institution emphasize the following?**

| Item wording or description | Variable name | Values[f] | Response options | Frequency Distributions[a] | | | | Statistical Comparisons[b] | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Hope | | Learning with Tech | | Hope | Learning with Tech | |
| | | | | Count | % | Count | % | Mean | Mean | Effect size[d] |
| a. Teaching with new, cutting-edge technologies | TEC05a | 1 | Very little | 51 | 16 | 3,104 | 11 | | | |
| | | 2 | Some | 156 | 46 | 9,514 | 33 | | | |
| | | 3 | Quite a bit | 92 | 28 | 10,114 | 34 | 2.3 | 2.7 *** | -.36 |
| | | 4 | Very much | 34 | 10 | 6,685 | 22 | | | |
| | | | Total | 333 | 100 | 29,417 | 100 | | | |
| b. Providing technology to help you learn, study or complete coursework | TEC05b | 1 | Very little | 32 | 10 | 2,171 | 8 | | | |
| | | 2 | Some | 116 | 34 | 7,138 | 25 | | | |
| | | 3 | Quite a bit | 138 | 42 | 11,113 | 37 | 2.6 | 2.9 *** | -.30 |
| | | 4 | Very much | 46 | 14 | 8,931 | 29 | | | |
| | | | Total | 332 | 100 | 29,353 | 100 | | | |
| c. Teaching you how to use available technologies to learn, study, or complete coursework | TEC05c | 1 | Very little | 35 | 11 | 2,945 | 11 | | | |
| | | 2 | Some | 128 | 38 | 8,255 | 29 | | | |
| | | 3 | Quite a bit | 123 | 38 | 10,157 | 34 | 2.5 | 2.7 *** | -.21 |
| | | 4 | Very much | 45 | 13 | 8,002 | 26 | | | |
| | | | Total | 331 | 100 | 29,359 | 100 | | | |
| d. Providing support services to assist you with your use of technology | TEC05d | 1 | Very little | 41 | 12 | 3,150 | 12 | | | |
| | | 2 | Some | 121 | 36 | 8,524 | 30 | | | |
| | | 3 | Quite a bit | 122 | 37 | 9,837 | 33 | 2.5 | 2.7 *** | -.18 |
| | | 4 | Very much | 48 | 14 | 7,763 | 25 | | | |
| | | | Total | 332 | 100 | 29,274 | 100 | | | |

*p<.05, **p<.01, ***p<.001 (2-tailed)