IICCCU

Supporting Structures: Innovative Collaborations to Enhance STEM Research at CCCU Member Institutions

## 2021 Report on STEM at CCCU Institutions

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This report on U.S. Governing Member ( $\mathrm{n}=112$ ) and US-based Collaborative Partner ( $\mathrm{n}=7$; Baylor University not included) institutions of the Council for Christian Colleges and Universities (CCCU) covers the years 1994-95 through 2018-19 (or 2017-18 if the more recent data is not available). The institutions included in the study were members as of April 2020.

The data in this report comes from the U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS). Some data (such as faculty ethnicity) were not mandatory to report to IPEDS in some of the years covered by this report. Therefore, some years contain data from fewer institutions. Where relevant, sample sizes are indicated.

IPEDS reports their STEM-related data according to five primary STEM categories: Biological and Biomedical Science (Bio), Computer Information Systems (CompSys), Engineering (Engin), Mathematics and Statistics (Math/Stats), and Physical Science (Phys). Please see the Appendix for the specific STEM areas included in each of these categories.

Throughout the report, "degrees" refers to bachelor degrees.

Table A: Number Of Degrees Awarded Across All Subjects And Disciplines
The total number of degrees awarded per year in all subjects and disciplines across all institutions increased from 30,149 in 1994-95 to 50,129 in 2018-19.

The average number of degrees awarded per year per institution increased from 262 to 421 .

| Table A: Number Of Degrees Awarded Across All Subjects And Disciplines |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1994-95 | 1999-00 | 2004-05 | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 |
| Total Number Of Degrees Awarded | 30,149 | 36,902 | 42,075 | 45,276 | 45,598 | 46,017 | 47,482 | 48,081 | 48,776 | 49,824 | 50,395 | 49,090 | 50,129 |
| Average Number Of Degrees Awarded Per Institution | 262.2 | 320.9 | 359.6 | 387.0 | 389.7 | 393.3 | 405.8 | 410.9 | 413.4 | 418.7 | 423.5 | 412.5 | 421.3 |
| $100^{\text {th }}$ Percentile For Number Of Degrees Awarded | 885 | 936 | 1,101 | 1,137 | 1,308 | 1,401 | 1,568 | 1,741 | 1,783 | 1,692 | 1,586 | 1,623 | 1,678 |
| $75^{\text {th }}$ Percentile For Number Of Degrees Awarded | 371 | 448 | 480 | 497 | 490 | 512 | 519 | 513 | 534 | 534 | 575 | 574 | 564 |
| $50^{\text {th }}$ Percentile For Number Of Degrees Awarded | 225 | 279 | 316 | 346 | 364 | 364 | 369 | 371 | 365 | 379 | 360 | 348 | 339 |
| $25^{\text {th }}$ Percentile For Number Of Degrees Awarded | 127 | 163 | 202 | 226 | 235 | 215 | 214 | 234 | 230 | 224 | 224 | 216 | 220 |

Source: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS)

Table B: Number Of STEM Degrees Awarded
The total number of STEM degrees awarded per year across all institutions increased from 2550 in 1994-95 to 5311 in 2018-19. As a percentage of the total number of all degrees awarded, this represents an increase from $8.4 \%$ to $10.6 \%$.

The average number of STEM degrees awarded per year per institution increased from 22 to 44.

Table B: Number Of STEM Degrees Awarded

|  | 1994-95 | 1999-00 | 2004-05 | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total Number Of STEM Degrees Awarded | 2550 | 3196 | 3325 | 3390 | 3448 | 3725 | 3978 | 4246 | 4403 | 4756 | 5017 | 5161 | 5311 |
| Average Number Of STEM Degrees Awarded Per Institution | 22.2 | 27.8 | 28.4 | 29.0 | 29.5 | 31.8 | 34.0 | 36.3 | 37.3 | 40.0 | 42.2 | 43.4 | 44.6 |
| $100^{\text {th }}$ Percentile For Number Of STEM Degrees Awarded | 134 | 229 | 162 | 176 | 165 | 148 | 146 | 177 | 178 | 202 | 218 | 221 | 229 |
| $75^{\text {th }}$ Percentile For Number Of STEM Degrees Awarded | 31 | 38 | 38 | 41 | 44 | 46 | 50 | 52 | 51 | 55 | 58 | 57 | 59 |
| $50^{\text {th }}$ Percentile For Number Of STEM Degrees Awarded | 16 | 19 | 19 | 22 | 22 | 24 | 25 | 26 | 27 | 29 | 29 | 28 | 31 |
| $25^{\text {th }}$ Percentile For Number Of STEM Degrees Awarded | 5 | 7 | 9 | 8 | 9 | 9 | 10 | 11 | 11 | 13 | 13 | 12 | 13 |
| STEM Degrees As Percentage Of Total Degrees Awarded | 8.4\% | 8.6\% | 7.9\% | 7.4\% | 7.5\% | 8.0\% | 8.3\% | 8.8\% | 8.9\% | 9.4\% | 9.9\% | 10.4\% | 10.6\% |

Source: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS)

Figure B1: Total Number Of STEM Degrees Awarded

## 6000



Figure B2: STEM Degrees As Percentage Of Total Degrees Awarded

## $12.0 \%$



Figure B3: Average Number Of STEM Degrees Awarded Per Institution


## Table C: Total Number Of STEM Degrees Awarded By STEM Category

As Table B indicates, the total number of STEM degrees awarded per year across all institutions doubled between 1994-95 and 2018-19. As Table C shows, much of this increase can be accounted for by the increase in the number of degrees awarded in Biological and Biomedical Sciences, Computer Information Systems, and Engineering.

Although the number of degrees awarded across all STEM categories between 1994-95 and 2018-19 increased, as a percentage of total STEM degrees awarded, Biology and Biomedical Sciences and Computer Information Systems changed little, while Mathematics and Statistics and Physical Sciences decreased. The percentage of Engineering degrees grew from $10 \%$ to nearly $19 \%$.

## Table C: Number Of STEM Degrees Awarded By STEM Category

|  | 1994-95 | 1999-00 | 2004-05 | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Bio | 1223 | 1455 | 1531 | 1763 | 1799 | 1892 | 2066 | 2138 | 2198 | 2315 | 2356 | 2419 | 2466 |
| As \% Of Total STEM Degrees Awarded | 47.4\% | 45.2\% | 45.7\% | 51.7\% | 52.1\% | 50.8\% | 52.4\% | 50.8\% | 50.4\% | 49.2\% | 47.2\% | 47.2\% | 46.7\% |
| CompSys | 442 | 857 | 831 | 485 | 526 | 620 | 555 | 644 | 714 | 776 | 857 | 912 | 975 |
| As \% Of Total STEM Degrees Awarded | 17.1\% | 26.6\% | 24.8\% | 14.2\% | 15.2\% | 16.7\% | 14.1\% | 15.3\% | 16.4\% | 16.5\% | 17.2\% | 17.8\% | 18.5\% |
| Engin | 270 | 274 | 362 | 435 | 407 | 454 | 520 | 631 | 649 | 766 | 929 | 953 | 997 |
| As \% Of Total STEM Degrees Awarded | 10.5\% | 8.5\% | 10.8\% | 12.7\% | 11.8\% | 12.2\% | 13.2\% | 15.0\% | 14.9\% | 16.3\% | 18.6\% | 18.6\% | 18.9\% |
| Math/Stats | 337 | 355 | 357 | 368 | 355 | 381 | 409 | 419 | 413 | 478 | 419 | 431 | 470 |
| As \% Of Total STEM Degrees Awarded | 13.1\% | 11.0\% | 10.6\% | 10.8\% | 10.3\% | 10.2\% | 10.4\% | 9.9\% | 9.5\% | 10.2\% | 8.4\% | 8.4\% | 8.9\% |
| Phys | 278 | 255 | 244 | 339 | 361 | 378 | 428 | 414 | 429 | 421 | 456 | 446 | 403 |
| As \% Of Total STEM Degrees Awarded | 10.8\% | 7.9\% | 7.3\% | 9.9\% | 10.5\% | 10.2\% | 10.9\% | 9.8\% | 9.8\% | 8.9\% | 9.1\% | 8.7\% | 7.6\% |

Source: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS)

Figure C1: Number Of STEM Degrees Awarded By STEM Category


Figure C2: Percentage Of Total STEM Degrees Awarded By STEM Category


## Tables D-H: Number Of STEM Degrees Awarded By STEM Category

The average number of Biological and Biomedical Sciences, Computer Information Systems, and Engineering degrees awarded per year per institution increased between 199495 and 2018-19. The most dramatic growth occurred in the number of large ( $75^{\text {th }}$ Percentile) and very large ( $100^{\text {th }}$ Percentile) Engineering programs (Table F).

| Table D: Number Of Biological And Biomedical Science Degrees Awarded |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1994-95 | 1999-00 | 2004-05 | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 |
| Average Number Of Degrees Awarded | 10.5 | 12.5 | 13.1 | 15.1 | 15.4 | 16.2 | 17.7 | 18.3 | 18.6 | 19.5 | 19.8 | 20.3 | 20.7 |
| $100^{\text {th }}$ Percentile For Number Of Degrees Awarded | 76.0 | 66.0 | 59.0 | 69.0 | 72.0 | 73.0 | 73.0 | 76.0 | 70.0 | 85.0 | 77.0 | 78.0 | 75.0 |
| $75^{\text {th }}$ Percentile For Number Of Degrees Awarded | 19.0 | 20.0 | 21.0 | 23.0 | 24.0 | 23.8 | 27.0 | 26.5 | 27.5 | 26.0 | 30.0 | 29.0 | 30.0 |
| $50^{\text {th }}$ Percentile For Number Of Degrees Awarded | 10.0 | 11.0 | 12.5 | 14.0 | 13.0 | 13.5 | 16.0 | 16.5 | 17.0 | 15.0 | 15.0 | 16.0 | 16.0 |
| $25^{\text {th }}$ Percentile For Number Of Degrees Awarded | 6.0 | 5.0 | 6.0 | 7.0 | 7.0 | 8.0 | 8.0 | 8.8 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 |

Source: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS)

| Table E: Number Of Computer Information System Degrees Awarded |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1994-95 | 1999-00 | 2004-05 | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 |
| Average Number Of Degrees Awarded | 3.8 | 7.4 | 7.1 | 4.1 | 4.5 | 5.3 | 4.7 | 5.5 | 6.1 | 6.5 | 7.2 | 7.7 | 8.2 |
| $100^{\text {th }}$ Percentile For Number Of Degrees Awarded | 46.0 | 208.0* | 95.0 | 34.0 | 36.0 | 55.0 | 41.0 | 60.0 | 53.0 | 61.0 | 83.0 | 62.0 | 67.0 |
| $75^{\text {th }}$ Percentile For Number Of Degrees Awarded | 8.3 | 12.0 | 10.5 | 8.0 | 9.0 | 9.0 | 9.0 | 9.0 | 13.0 | 11.0 | 13.0 | 16.0 | 16.0 |
| $50^{\text {th }}$ Percentile For Number Of Degrees Awarded | 5.0 | 7.0 | 7.0 | 5.0 | 5.0 | 5.0 | 5.0 | 6.0 | 6.0 | 8.0 | 8.0 | 9.0 | 9.5 |
| $25^{\text {th }}$ Percentile For Number Of Degrees Awarded | 2.0 | 4.0 | 3.0 | 2.0 | 3.0 | 3.0 | 3.0 | 4.0 | 3.0 | 5.0 | 4.0 | 4.0 | 5.0 |

Source: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS)
*This figure may represent a data entry error in IPEDS. The same institution constituted the $100^{\text {th }}$ Percentile data point in 1994-95, 1999-2000, and 2004-05.

| Table F: Number Of Engineering Degrees Awarded |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1994-95 | 1999-00 | 2004-05 | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 |
| Average Number Of Degrees Awarded | 2.3 | 2.4 | 3.1 | 3.7 | 3.5 | 3.9 | 4.4 | 5.4 | 5.5 | 6.4 | 7.8 | 8.0 | 8.4 |
| $100^{\text {th }}$ Percentile For Number Of Degrees Awarded | 43.0 | 47.0 | 65.0 | 75.0 | 61.0 | 61.0 | 64.0 | 82.0 | 85.0 | 104.0 | 108.0 | 101.0 | 114.0 |
| $75^{\text {th }}$ Percentile For Number Of Degrees Awarded | 17.0 | 19.0 | 21.0 | 21.0 | 20.3 | 26.0 | 30.0 | 29.0 | 33.0 | 33.5 | 41.8 | 39.5 | 39.0 |
| $50^{\text {th }}$ Percentile For Number Of Degrees Awarded | 6.0 | 9.5 | 10.0 | 11.0 | 14.0 | 12.0 | 17.0 | 11.0 | 13.0 | 10.0 | 10.0 | 15.0 | 9.0 |
| $25^{\text {th }}$ Percentile For Number Of Degrees Awarded | 3.5 | 3.3 | 6.5 | 3.0 | 4.3 | 2.0 | 4.0 | 3.0 | 4.0 | 4.0 | 3.8 | 5.5 | 3.0 |

[^0]| Table G: Number Of Mathematics And Statistics Degrees Awarded |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1994-95 | 1999-00 | 2004-05 | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 |
| Average Number Of Degrees Awarded | 2.9 | 3.1 | 3.1 | 3.1 | 3.0 | 3.3 | 3.5 | 3.6 | 3.5 | 4.0 | 3.5 | 3.6 | 3.9 |
| $100^{\text {th }}$ Percentile For Number Of Degrees Awarded | 21.0 | 14.0 | 21.0 | 21.0 | 19.0 | 18.0 | 25.0 | 24.0 | 15.0 | 35.0 | 26.0 | 24.0 | 21.0 |
| $75^{\text {th }}$ Percentile For Number Of Degrees Awarded | 5.0 | 6.0 | 5.0 | 6.0 | 5.0 | 6.0 | 5.0 | 7.0 | 6.0 | 7.0 | 5.8 | 5.3 | 6.0 |
| $50^{\text {th }}$ Percentile For Number Of Degrees Awarded | 3.0 | 3.0 | 3.0 | 4.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 4.0 | 3.5 | 3.0 | 3.5 |
| $25^{\text {th }}$ Percentile For Number Of Degrees Awarded | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |

Source: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS)

| Table H: Number Of Physical Sciences Degrees Awarded |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1994-95 | 1999-00 | 2004-05 | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 |
| Average Number Of Degrees Awarded | 2.4 | 2.2 | 2.1 | 2.9 | 3.1 | 3.2 | 3.7 | 3.5 | 3.6 | 3.5 | 3.8 | 3.7 | 3.4 |
| $100^{\text {th }}$ Percentile For Number Of Degrees Awarded | 25.0 | 14.0 | 16.0 | 26.0 | 28.0 | 36.0 | 40.0 | 34.0 | 40.0 | 48.0 | 31.0 | 33.0 | 32.0 |
| $75^{\text {th }}$ Percentile For Number Of Degrees Awarded | 5.0 | 5.0 | 4.0 | 6.3 | 6.0 | 6.0 | 5.0 | 6.5 | 6.0 | 7.0 | 7.0 | 7.0 | 6.0 |
| $50^{\text {th }}$ Percentile For Number Of Degrees Awarded | 3.0 | 3.0 | 2.5 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 4.0 | 3.0 | 3.0 |
| $25^{\text {th }}$ Percentile For Number Of Degrees Awarded | 2.0 | 1.0 | 1.0 | 2.0 | 2.0 | 1.3 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |

Source: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS)

Table I: Number Of Institutions Awarding At Least One Degree Within STEM Category
Within each of the five STEM categories, the number of institutions awarding at least one degree increased between 1994-95 and 2018-19. All STEM categories experienced growth, with the number of institutions awarding degrees in Engineering almost doubling.

|  | Table I: Number Of Institutions Awarding At Least One Degree Within STEM Category |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $1994-95$ | $1999-00$ | $2004-05$ | $2009-10$ | $2010-11$ | $2011-12$ | $2012-13$ | $2013-14$ | $2014-15$ | $2015-16$ | $2016-17$ | $2017-18$ | $2018-19$ |
| Bio | 89 | 97 | 102 | 104 | 107 | 106 | 109 | 108 | 111 | 112 | 113 | 113 | 114 |
| CompSys | 64 | 69 | 83 | 74 | 72 | 73 | 70 | 66 | 77 | 77 | 79 | 81 | 78 |
| Engin | 23 | 22 | 23 | 25 | 24 | 29 | 26 | 31 | 29 | 34 | 36 | 35 | 41 |
| Math/Stats | 79 | 84 | 80 | 87 | 88 | 92 | 94 | 89 | 96 | 97 | 94 | 100 | 98 |
| Phys | 65 | 69 | 68 | 68 | 72 | 70 | 79 | 75 | 78 | 74 | 75 | 75 | 75 |

Source: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS)

Figure I1: Number Of Institutions Awarding At Least One Degree Within STEM Category


Table J: Number Of Institutions Awarding 0, 1-20, 21-40, 41-60, ... 201+ STEM Degrees
The number of institutions awarding zero STEM degrees decreased from 22 to 1 between 1994-95 and 2018-19. The number of institutions awarding 101 or more STEM degrees increased from 2 to 12 . STEM degree programs became more common, and the number of institutions with larger STEM programs increased.

| Number of Degrees | Table J: Number Of Institutions Awarding 0, 1-20, 21-40, 41-60, ... 201+ STEM Degrees |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1994-95 | 1999-00 | 2004-05 | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 |
| 0 | 22 | 14 | 11 | 8 | 9 | 7 | 5 | 4 | 3 | 3 | 2 | 2 | 1 |
| 1-20 | 48 | 47 | 50 | 47 | 48 | 46 | 46 | 45 | 45 | 45 | 44 | 43 | 43 |
| 21-40 | 26 | 28 | 28 | 31 | 28 | 32 | 26 | 29 | 29 | 33 | 30 | 29 | 29 |
| 41-60 | 12 | 12 | 11 | 15 | 17 | 13 | 19 | 15 | 15 | 12 | 14 | 17 | 17 |
| 61-80 | 5 | 10 | 12 | 12 | 8 | 9 | 12 | 9 | 13 | 8 | 9 | 7 | 8 |
| 81-100 | 0 | 2 | 2 | 2 | 6 | 6 | 5 | 8 | 6 | 9 | 10 | 7 | 8 |
| 101-200 | 2 | 1 | 3 | 2 | 1 | 4 | 4 | 7 | 7 | 8 | 8 | 12 | 12 |
| 201+ | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 1 |

Source: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS)

Figure J1: Number Of Institutions Awarding 0, 1-20, 21-40, 41-60, ... 201+ STEM Degrees
60



Table K: Number Of Institutions Awarding Degrees in $0,1,2, \ldots 5$ STEM Categories
Table K depicts the number of institutions awarding degrees in $0,1,2 \ldots 5$ STEM categories between 1994-95 and 2018-19. The number of institutions awarding degrees in 1 or 2 STEM categories increased, as did the number of institutions awarding degrees in all 5 STEM categories. [NB: As Table J indicated, the number of institutions issuing zero STEM degrees decreased from 25 to 1 between 1994-95 and 2018-19. In Table K, the same figures are present as the number of institutions awarding degrees in zero STEM categories.]

Figure K3 (data not included in Table K) depicts the change at each institution between 1994-95 and 2018-19 in the number of STEM categories in which degrees were awarded. 41 institutions awarded degrees in the same number of STEM categories in 2018-19 as they had in 1994-95. 43 institutions awarded degrees in one additional STEM category in 2018-19 compared to the number of STEM categories in which they had awarded degrees in 1994-95, and 16 institutions awarded degrees in two more STEM categories. 7 institutions awarded degrees in one fewer STEM category in 2018-19 compared to the number of STEM categories in which they had awarded degrees in 1994-95, and 5 institutions awarded degrees in two fewer STEM categories.

| Table K: Number Of Institutions Awarding Degrees In 0, 1, 2, ... 5 STEM Categories |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1994-95 | 1999-00 | 2004-05 | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 |
| 0 STEM Categories | 22 | 14 | 11 | 8 | 9 | 7 | 5 | 4 | 3 | 3 | 2 | 2 | 1 |
| 1 STEM Category | 7 | 9 | 12 | 11 | 11 | 11 | 11 | 19 | 12 | 13 | 13 | 10 | 14 |
| 2 STEM Categories | 10 | 14 | 14 | 16 | 13 | 17 | 12 | 12 | 18 | 17 | 20 | 17 | 18 |
| 3 STEM Categories | 25 | 25 | 23 | 28 | 30 | 25 | 32 | 24 | 21 | 23 | 20 | 27 | 18 |
| 4 STEM Categories | 37 | 36 | 38 | 39 | 35 | 35 | 38 | 36 | 40 | 37 | 36 | 36 | 38 |
| 5 STEM Categories | 14 | 17 | 19 | 15 | 19 | 22 | 19 | 22 | 24 | 26 | 28 | 27 | 30 |
| Average Number Of STEM Degree Categories Offered Per Institution (Max. 5) | 2.71 | 2.89 | 3.02 | 3.03 | 3.07 | 3.14 | 3.20 | 3.13 | 3.29 | 3.31 | 3.34 | 3.39 | 3.41 |
| Standard Deviation | 1.72 | 1.62 | 1.56 | 1.43 | 1.48 | 1.47 | 1.37 | 1.48 | 1.39 | 1.38 | 1.38 | 1.30 | 1.37 |

Source: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS)

Figure K1: Number of Institutions Offering Degrees in 0, 1, 2, .. 5 STEM Categories


Figure K2: Average Number Of STEM Degree Categories Offered Per Institution (Max. = 5)


Figure K3: Change Between 1994-95 and 2018-19 In Number Of STEM Categories In Which Degrees Were Awarded


## Appendix

## Degree Areas Within IPEDS STEM Categories

## Biological and Biomedical Sciences

1. Biology, General
2. Biochemistry, Biophysics and Molecular Biology
3. Botany/Plant Biology
4. Cell/Cellular Biology and Anatomical Sciences
5. Microbiological Sciences and Immunology
6. Zoology/Animal Biology
7. Genetics
8. Physiology, Pathology and Related Sciences
9. Pharmacology and Toxicology
10. Biomathematics, Bioinformatics, \& Computational Bio.
11. Biotechnology
12. Ecology, Evolution, Systematics, and Populations Bio.
13. Molecular Medicine
14. Neurobiology and Neurosciences
15. Biological and Biomedical Sciences, Other

## Computer Information Sciences and Support Services

1. Computer and Information Services, General
2. Computer Programing
3. Data Processing
4. Information Sciences/Studies
5. Computer Systems Analysis
6. Data Entry/ Microcomputer Applications
7. Computer Science
8. Computer Software and Media Applications
9. Computer Systems Networking and Telecommunications
10. Computer/Information Technology Administration and Management
11. Computer and Information Sciences and Support Services, Other
[^1]
## Engineering

## 1. Engineering, General

2. Aerospace, Aeronautical and Astronautical Engineering
3. Agricultural Engineering
4. Architectural Engineering
5. Biomedical/Medical Engineering
6. Ceramic Sciences and Engineering
7. Chemical Engineering
8. Civil Engineering
9. Computer Engineering
10. Electrical, Electronics and Communications Engineering
11. Engineering Mechanics
12. Engineering Physics
13. Engineering Science
14. Environmental/Environmental Health Engineering
15. Materials Engineering
16. Mechanical Engineering
17. Metallurgical Engineering
18. Mining and Mineral Engineering
19. Naval Architecture and Marine Engineering
20. Nuclear Engineering
21. Ocean Engineering
22. Petroleum Engineering
23. Systems Engineering
24. Textile Sciences and Engineering
25. Polymer/Plastics Engineering
26. Construction Engineering
27. Forest Engineering
28. Industrial Engineering
29. Manufacturing Engineering
30. Operations Research
31. Surveying Engineering
32. Geological/Geophysical Engineering
33. Paper Science and Engineering
34. Electromechanical Engineering
35. Mechatronics, Robotics, and Automation Engineering
36. Biochemical Engineering
37. Engineering Chemistry
38. Biological/Biosystems Engineering
39. Engineering, Other
[^2]
## Mathematics and Statistics

1. Mathematics
2. Applied Mathematics
3. Physical Sciences
4. Astronomy and Astrophysics
5. Atmospheric Sciences and Meteorology
6. Chemistry
7. Statistics
8. Mathematics and Statistics, Other

## Physical Sciences

5. Geological and Earth Sciences/Geosciences
6. Physics
7. Material Sciences
8. Physical Sciences, Other
*Degrees in areas marked in Bold were awarded by at least one CCCU Governing Member institution during the period studied.

[^0]:    Source: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS)

[^1]:    *Degrees in areas marked in Bold were awarded by at least one CCCU Governing Member institution during the period studied.

[^2]:    *Degrees in areas marked in Bold were awarded by at least one CCCU Governing Member institution during the period studied.

