This report, covering 1,972 special education faculty, is part of an annual national survey of faculty salaries. The survey is in two parts: one covering public and one covering private four-year colleges and universities. Data for the 1995-96 baseline year and 1998-99 trend year were collected for full-time teaching faculty in 53 selected academic disciplines from 279 public and 386 private institutions. The first section of the report defines the methodology and terms used; this is followed by a data page listing average salaries for both public and private participating institutions by faculty rank (including a new assistant professor rank), faculty mix percent, and salary factors. A concluding section compares salary trend information for both public and private institutions for each of the 2 study years with trend information for all fields and with the Consumer Price Index. It notes that, in 1995-96, average special education faculty salaries in public and private institutions were, respectively, 6.3 percent and 10.7 percent below the average for all ranks in all major fields. In 1998-99, these averages were, respectively, 5.9 percent and 19.7 percent below the average across fields. Appended is a list of the 53 selected academic disciplines, as well as lists of the participating public and private colleges. (CH)
Salary-Trend Study of Faculty in Special Education
For the Years
1995-96 and 1998-99

Foreword

by

Richard D. Howe
Appalachian State University
Boone, NC 28608

Since 1982-83 the College and University Personnel Association (CUPA) in Washington, DC, in cooperation with Appalachian State University in Boone, NC, have conducted annual national faculty salary surveys by discipline and rank each year through 1998-99. Two separate surveys are conducted each year, one for public senior colleges and universities and the other for private senior colleges and universities.

Salary data from the 1995-96 and 1998-99 surveys were collected and tabulated for full-time teaching faculty in 53 selected academic disciplines/major fields chosen from among those defined by A Classification of Instructional Programs, 1990.

Each of the 53 academic disciplines/major fields presents a summary of the overall average salary increase in that academic discipline/major field from the “baseline year” of 1995-96 to and including the “trend year” of 1998-99 for both public and private participating institutions. Of the 329 public institutions which participated in CUPA’s public survey of 1995-96, 279 also participated in the 1998-99 survey. Data from those same 279 institutions were used in both the baseline year and the trend year studies. Of the 530 institutions which participated in CUPA’s private survey of 1995-96, 386 also participated in the 1998-99 survey. Data from those same 386 institutions were used in both the baseline year and the trend year.

In addition to listing the average salaries in Special Education for both public and private participating institutions by rank, including “new assistant professor,” and listing the faculty mix percentage (FAC MIX PCT) and the salary factor, comparisons are made between the two public surveys and the two private surveys for each of the two study years (1995-96 and 1998-99) and with the CPI (Consumer Price index) of changes in cost-of-living.

The list of all 53 selected academic disciplines/major fields surveyed, including Special Education, is found in appendix A, and the lists of all participating senior colleges and universities are found in appendixes B (public) and C (private) of this article.
Since 1982-83 the College and University Personnel Association (CUPA) in Washington, D.C., in cooperation with Appalachian State University in Boone, North Carolina, has conducted two annual national faculty salary studies by discipline and rank through 1998-99: one for public senior colleges and universities, and the other for private senior colleges and universities.

Salary data for each study were collected and tabulated for full-time teaching faculty in 53 selected academic disciplines/major fields chosen from among those defined by A Classification of Instructional Programs *(CIP), 1990, including Special Education. The CIP defines the discipline/major field of Special Education as,

A group of instructional programs that generally describes the design and provision of teaching and other educational services to children or adults with special learning needs or disabilities, and that may prepare individuals to function as special education teachers. Includes instruction in diagnosing learning disabilities, developing individual education plans, teaching and supervising special education students, special education counseling, and applicable laws and policies.*


This article summarizes the overall average salary increases in the discipline/major field of Special Education for both public and private institutions from the "baseline year" of 1995-96 to and including the "trend year" of 1998-99. Of the 329 institutions which participated in CUPA's PUBLIC study of 1995-96, 279 also participated in 1998-99. Data from those same 279 institutions
were used in both the baseline year and the trend year. Of the 530 institutions which participated in CUPA’s PRIVATE study of 1995-96, 386 also participated in 1998-99. Data from those same 386 institutions were used in both the baseline year and the trend year.

This article lists the average salaries for the discipline/major field of Special Education for both public and private participating institutions by rank, including NEW ASST PROF (new assistant professor), the FAC MIX PCT (faculty mix percentage), and the SALARY FACTOR. Comparisons are also made using the CPI’s (Consumer Price Index) changes in cost-of-living between the two studies for each of the two study years (1995-96 and 1998-99).

The CPI uses a base period of 1982-84 and measures/tabulates prices of food, clothing, shelter and fuels, transportation, medical care, entertainment and other goods and services people buy for day-to-day living. When examining trends in faculty salary, it is important to consider any changes in the purchasing power of salaries due to inflation. Comparing changes in the faculty salaries with the CPI gives one a more precise view of what “real” salary increases are, that is, buying power.

The salary is based on a nine- or 10-month academic year salary of full-time faculty, and does not include any faculty teaching less than 51 percent. Salary for summer academic work, fringe benefits, and perquisites are also not included in the salary data. The average salary is based on the study information with the assumption that all employees are full-time. The average salary displayed is an average of all faculty salaries reported for a given rank and discipline.

“NUM” refers to the number of faculty members whose salaries were included to compute the average salary.

“N/IN” refers to the number of institutions that reported salary data for a given academic rank and discipline/major field.
The FAC MIX PCT represents the percentage of faculty in a given discipline/major field who hold a given academic rank. For example, a FAC MIX PCT factor of 30.4 for associate professors of Special Education in the 1995-96 public study means that 30.4 percent of the faculty in that discipline/major field held the rank of associate professor.

The SALARY FACTOR for a given rank in a given discipline/major field represents the ratio of the average salary to the total average salary of all institutions in each of the four studies: PUBLIC 1995-96, PUBLIC 1998-99, PRIVATE 1995-96 and PRIVATE 1998-99. For example, a SALARY FACTOR of 0.95 for associate professors in the discipline/major field of Special Education in the 1995-96 public study means that their average salary is five percent lower than the average salary for all associate professors in all institutions in that study.

NEW ASST PROF refers to the grouping of assistant professors hired for the first time in the fall of the study year (1995-96 or 1998-99). All information for this group was included in the ASST PROF group for reporting purposes.

ALL MAJOR FIELDS refers to the entire data base for all 53 disciplines/major fields in each of the four studies. Among other things, it is used to compare the discipline/major field of Special Education with the entire data base for each study.

The reader will find the size of the sample on which each percentage or dollar value is based to be of particular importance. The smaller the number in the group, the greater the effect of extreme scores on a descriptive statistic such as the average. It should also be noted that any large disparity in the sample sizes between the "baseline year" of 1995-96 and the "trend year" of 1998-99 will lessen the reliability and validity of any conclusions that one might make based on a simple comparison of averages.
<table>
<thead>
<tr>
<th>DISCIPLINE: EDUCATION</th>
<th>MAJOR FIELD: Special Education</th>
<th></th>
<th></th>
<th></th>
<th>INSTRUCTOR</th>
<th>ALL RANKS</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PUBLIC: 1995-96</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>45683</td>
<td>784</td>
<td>115</td>
<td></td>
</tr>
<tr>
<td>AVERAGE SALARY:</td>
<td>55778</td>
<td>270</td>
<td>92</td>
<td>44895</td>
<td>238</td>
<td>88</td>
<td>37541</td>
<td>238</td>
<td>88</td>
</tr>
<tr>
<td>FAC MIX PCT:</td>
<td>34.4%</td>
<td></td>
<td></td>
<td>30.4%</td>
<td></td>
<td>0.95</td>
<td>30.4%</td>
<td>6.8%</td>
<td></td>
</tr>
<tr>
<td>ALL MAJOR FIELDS</td>
<td></td>
<td></td>
<td></td>
<td>39120</td>
<td>25458</td>
<td>279</td>
<td>28.1%</td>
<td>4.6%</td>
<td></td>
</tr>
<tr>
<td>PRIVATE: 1995-96</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>48543</td>
<td>90660</td>
<td>279</td>
<td></td>
</tr>
<tr>
<td>AVERAGE SALARY:</td>
<td>60591</td>
<td>32113</td>
<td>279</td>
<td>47365</td>
<td>27143</td>
<td>279</td>
<td>39120</td>
<td>25458</td>
<td>279</td>
</tr>
<tr>
<td>FAC MIX PCT:</td>
<td>35.4%</td>
<td></td>
<td></td>
<td>29.9%</td>
<td></td>
<td>0.95</td>
<td>35.1%</td>
<td>6.4%</td>
<td></td>
</tr>
<tr>
<td>ALL MAJOR FIELDS</td>
<td></td>
<td></td>
<td></td>
<td>42557</td>
<td>24888</td>
<td>279</td>
<td>27.9%</td>
<td>4.9%</td>
<td></td>
</tr>
<tr>
<td>PRIVATE: 1998-99</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>53370</td>
<td>89174</td>
<td>279</td>
<td></td>
</tr>
<tr>
<td>AVERAGE SALARY:</td>
<td>67342</td>
<td>31095</td>
<td>279</td>
<td>52140</td>
<td>26937</td>
<td>279</td>
<td>42557</td>
<td>24888</td>
<td>279</td>
</tr>
<tr>
<td>FAC MIX PCT:</td>
<td>34.9%</td>
<td></td>
<td></td>
<td>30.2%</td>
<td></td>
<td>0.95</td>
<td>35.1%</td>
<td>6.4%</td>
<td></td>
</tr>
<tr>
<td>ALL MAJOR FIELDS</td>
<td></td>
<td></td>
<td></td>
<td>4205</td>
<td>260</td>
<td>32241</td>
<td>6254</td>
<td>239</td>
<td></td>
</tr>
<tr>
<td>PUBLIC: 1998-99</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>50400</td>
<td>921</td>
<td>112</td>
<td></td>
</tr>
<tr>
<td>AVERAGE SALARY:</td>
<td>63362</td>
<td>301</td>
<td>96</td>
<td>49439</td>
<td>251</td>
<td>92</td>
<td>41472</td>
<td>323</td>
<td>91</td>
</tr>
<tr>
<td>FAC MIX PCT:</td>
<td>32.7%</td>
<td></td>
<td></td>
<td>27.3%</td>
<td></td>
<td>0.95</td>
<td>35.1%</td>
<td>6.4%</td>
<td></td>
</tr>
<tr>
<td>ALL MAJOR FIELDS</td>
<td></td>
<td></td>
<td></td>
<td>42557</td>
<td>24888</td>
<td>279</td>
<td>27.9%</td>
<td>4.9%</td>
<td></td>
</tr>
<tr>
<td>PRIVATE: 1995-96</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>43598</td>
<td>119</td>
<td>45</td>
<td></td>
</tr>
<tr>
<td>AVERAGE SALARY:</td>
<td>57669</td>
<td>32</td>
<td>17</td>
<td>43663</td>
<td>41</td>
<td>24</td>
<td>35009</td>
<td>38</td>
<td>31</td>
</tr>
<tr>
<td>FAC MIX PCT:</td>
<td>26.9%</td>
<td></td>
<td></td>
<td>34.5%</td>
<td></td>
<td>0.95</td>
<td>31.9%</td>
<td>5.9%</td>
<td></td>
</tr>
<tr>
<td>ALL MAJOR FIELDS</td>
<td></td>
<td></td>
<td></td>
<td>38154</td>
<td>13141</td>
<td>386</td>
<td>30.5%</td>
<td>4.7%</td>
<td></td>
</tr>
<tr>
<td>PRIVATE: 1998-99</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>48264</td>
<td>43114</td>
<td>386</td>
<td></td>
</tr>
<tr>
<td>AVERAGE SALARY:</td>
<td>64887</td>
<td>29</td>
<td>15</td>
<td>45446</td>
<td>45</td>
<td>29</td>
<td>38154</td>
<td>13141</td>
<td>386</td>
</tr>
<tr>
<td>FAC MIX PCT:</td>
<td>19.6%</td>
<td></td>
<td></td>
<td>30.4%</td>
<td></td>
<td>0.89</td>
<td>30.5%</td>
<td>4.7%</td>
<td></td>
</tr>
<tr>
<td>ALL MAJOR FIELDS</td>
<td></td>
<td></td>
<td></td>
<td>38627</td>
<td>45</td>
<td>37984</td>
<td>15</td>
<td>13</td>
<td>31770</td>
</tr>
<tr>
<td>AVERAGE SALARY:</td>
<td>70365</td>
<td>15405</td>
<td>383</td>
<td>51127</td>
<td>14285</td>
<td>386</td>
<td>41924</td>
<td>13139</td>
<td>386</td>
</tr>
<tr>
<td>FAC MIX PCT:</td>
<td>34.4%</td>
<td></td>
<td></td>
<td>31.9%</td>
<td></td>
<td>0.95</td>
<td>29.3%</td>
<td>4.9%</td>
<td></td>
</tr>
</tbody>
</table>

In the PUBLIC 1995-96 study in the above table, the discipline/major field of Special Education was reported in 115 of the 279 public institutions. The average salary of the 784 faculty was $45,683. This average salary was approximately 6.3 percent lower than the average salary of $48,543 for all 90,660 faculty in ALL MAJOR FIELDS in the same 1995-96 public study.

For the PUBLIC 1998-99 salary study in the above table, Special Education was reported in 112 of the same 279 public institutions. The average salary of the 921 faculty was $50,400. This average salary was approximately 5.9 percent lower than the average salary of $53,370 for all 89,174 faculty in ALL MAJOR FIELDS in the 1998-99 public study.

The three-year increase in average salaries for all faculty in the discipline/major field of Special Education in the public institutions studied was 10.3 percent ($50,400 minus $45,683 equals $4,717). The CPI of increase cost-of-living between October 1995 and October 1998 was 6.7 percent. In comparison, with the CPI, there was a relative increase in Special Education average faculty salaries over the three-year period by 3.6 percent or an average of 1.2 percent each year above the cost-of-living.

The increase in average salaries for all faculty in ALL MAJOR FIELDS over three years in the public institutions studied was 9.9 percent ($53,370 minus $48,543 equals $4,827). In comparison to the discipline/major field of Special Education (10.3%), the faculty in ALL MAJOR FIELDS received a relative increase in their salaries of 0.4 percent less than the faculty in the discipline/major field of Special Education.

In the 1995-96 study the faculty mix percentage in Special Education is higher at the professor rank than at the assistant professor rank: 34.4 percent vs. 30.4 percent; in the 1998-99 study it is 32.7 percent vs. 35.1 percent. The differences in faculty mix percentage at the ranks of
professor and assistant professors in ALL MAJOR FIELDS for both public studies are 35.4 percent vs. 28.1 percent (1995-96) and 34.9 percent vs. 27.9 percent (1998-99).

Finally, the hiring rate of new assistant professors in Special Education in the public studies was higher than the hiring rate of ALL MAJOR FIELDS in 1995-96, 6.8 percent (53/784) vs 4.6 percent (4,205/90,660) and higher in 1998-99, 6.4 percent (59/921) vs. 4.9 percent (4,386/89,174).


The PRIVATE 1995-96 salary study in the above table indicates that the discipline/major field of Special Education was reported in 45 of the 386 private institutions. The average salary of the 119 faculty was $43,598, an average salary 10.7 percent higher than the average salary of $48,264 for all 43,114 faculty in ALL MAJOR FIELDS in the 1995-96 private study.

In the PRIVATE 1998-99 salary study in the above table, 61 of the same 386 private institutions reported Special Education. The average salary of the 148 faculty was $45,383, an average salary 19.7 percent lower than the average salary of $54,316 for all 44,803 faculty in ALL MAJOR FIELDS in the 1998-99 private study.

The three-year increase in average salaries for all faculty in Special Education in the private institutions studied was 4.1 percent ($45,383 minus $43,598 equals $1,785). The CPI increased cost-of-living between October 1995 and October 1998 was 6.7 percent. A more realistic increase, therefore, in the average faculty salaries of Special Education over the three-year time period, is 2.6 percent or 0.9 percent each year below the cost-of-living.

The three-year increase in average salaries for all faculty in ALL MAJOR FIELDS in the private institutions studied was 12.5 percent ($54,316 minus $48,264 equals $6,052). In comparison to Special Education (4.1%), the faculty in ALL MAJOR FIELDS increased their salaries 8.4 percent.
more than faculty in Special Education.

For both studies in the discipline/major field of Special Education, the faculty mix percentage is lower at the professor rank in comparison to the assistant professor rank: 26.9 percent vs. 31.9 percent (1995-96); and 19.6 percent vs 43.2 percent, (1998-99). The differences in the ranks of professor and assistant professor in ALL MAJOR FIELDS for both private studies are 33.5 percent vs. 30.5 percent (1995-96) and 34.4 percent vs 29.3 percent (1998-99).

Finally, the hiring rate for new assistant professors in Special Education was higher than the hiring rate in ALL MAJOR FIELDS in the 1995-96 private study: 5.9 percent (7/119) vs. 4.7 percent (2,041/43,114) and higher in the 1998-99 private study: 10.1 percent (15/148) vs. 4.9 percent (2,178/44,803).

CONCLUSION

This article presents salary-trend information on the academic discipline/major field of Special Education and compares that information with both ALL MAJOR FIELDS and the CPI over a period of three years, from the “baseline year” of 1995-96 through the “trend year” of 1998-99. Two studies--one for public institutions, and the other for private institutions--were conducted for the baseline year and for the trend year--a total of four studies. A total of 1,972 (1.2%) faculty in the discipline/major field of Special Education participated and were included in the 53 disciplines/major fields in each of the four studies and in the overall total of 267,751 participating faculty. The same 279 public institutions and the same 386 private institutions in the United States participated in the baseline year and in the trend year.

Although the public and private studies data may be interpreted in a variety of ways, several significant points are as follows. First, the average faculty salary factors in the discipline/major field
of Special Education for the 1995-96 public study was six percent lower than that of all ranks in ALL MAJOR FIELDS (1.00); and for the 1995-96 private study it was 10.0 percent lower than the average faculty salary factors for all ranks in ALL MAJOR FIELDS (1.00). In both the public and private studies the average faculty salary factors for all ranks in Special Education in 1998-99 were six percent lower and 16.0 percent lower than the average salary factors for all ranks in ALL MAJOR FIELDS (1.00), respectively.

Second, the October 1998 CPI reflects an 6.7 percent increase over the October 1995 CPI and indicates that the faculty in Special Education in the public institutions received an average annual salary increase of 1.2 percent above the cost-of-living. In the private institutions the annual average salary increase was 0.9 percent below the cost-of-living.

Third, in the 1995-96 public study in Special Education, the professor rank FAC MIX PCTs was higher than those for the assistant professor rank. However, in the 1995-96 and 1998-99 private studies and the 1998-99 public study the FAC MIX PCTS were lower at the professor rank than at the assistant professor rank.

Finally, the hiring rate of new assistant professors in Special Education in the 1995-96 and 1998-99 public studies and in the 1995-96 and 1998-99 private studies were higher than the hiring rate of ALL MAJOR FIELDS.

Because a significant data base of average faculty salaries in the academic discipline/major field of Special Education has now been developed, it is anticipated that this information will serve as a valuable reference and evaluation tool for interested administrators and professors.
Richard D. Howe is the originator and director of the annual CUPA faculty salary studies. He is a professor of leadership and educational studies at Appalachian State University, Boone, North Carolina.

APPENDICES:

A - OVERALL LIST OF SELECTED DISCIPLINES, page 10
B - LIST OF PUBLIC PARTICIPATING INSTITUTIONS, page 11
C - LIST OF PRIVATE PARTICIPATING INSTITUTIONS, page 14
APPENDIX A

OVERALL LIST OF SELECTED DISCIPLINES

ACCOUNTING
ADMINISTRATIVE ASSISTANT AND SECRETARIAL SERVICES
ANTHROPOLOGY
ARCHITECTURE AND RELATED PROGRAMS
AREA, ETHNIC, AND CULTURAL STUDIES
BIOLOGY, GENERAL
BUSINESS ADMINISTRATION AND MANAGEMENT
BUSINESS MANAGEMENT AND ADMINISTRATIVE SERVICES
BUSINESS/MANAGERIAL ECONOMICS
CHEMISTRY
COMMUNICATIONS
COMMUNICATIONS TECHNOLOGIES
COMPUTER AND INFORMATION SCIENCES
COUNSELOR EDUCATION/STUDENT COUNSELING AND GUIDANCE SERVICES
CRIMINAL JUSTICE AND CORRECTIONS
CURRICULUM AND INSTRUCTION
DRAMA/THEATER ARTS AND STAGECRAFT
ECONOMICS
EDUCATION
EDUCATION ADMINISTRATION AND SUPERVISION
ENGINEERING, GENERAL
ENGINEERING-RELATED TECHNOLOGIES
ENGLISH LANGUAGE AND LITERATURE/LETTERS, GENERAL
ENTERPRISE MANAGEMENT AND OPERATION
FINE ARTS AND ART STUDIES
FOREIGN LANGUAGES AND LITERATURES
GEOGRAPHY
GEOLOGICAL AND RELATED STUDIES
HISTORY, GENERAL
HOME ECONOMICS, GENERAL
LIBRARY SCIENCE
MARKETING MANAGEMENT AND RESEARCH
MATHEMATICS
MULTI/INTERDISCIPLINARY STUDIES
MUSIC
NURSING (R.N. TRAINING)
OCCUPATIONAL THERAPY
PARKS, RECREATION AND LEISURE STUDIES
PHILOSOPHY AND RELIGION
PHYSICAL SCIENCES, GENERAL
PHYSICAL THERAPY

PHYSICS
POLITICAL SCIENCE AND GOVERNMENT
PSYCHOLOGY, GENERAL
PUBLIC HEALTH
READING TEACHER EDUCATION
SOCIAL SCIENCES, GENERAL
SOCIAL WORK
SOCIOLOGY
SPECIAL EDUCATION
SPEECH-LANGUAGE PATHOLOGY AND AUDIOLGY
TEACHER EDUCATION, SPECIFIC ACADEMIC AND VOCATIONAL PROGRAMS
VISUAL AND PERFORMING ARTS

TOTAL 53
APPENDIX B


Institutions Participating in Both Studies:

Alcorn State University (MS)
Angelo State University (TX)
Appalachian State University (NC)
Arizona State University-West (AZ)
Arkansas State University (AR)
Arkansas Tech University (AR)
Armstrong Atlantic State University (GA)
Auburn University-Montgomery (AL)
Augusta State University (GA)
Austin Peay State University (TN)
Ball State University (IN)
Bemidji State University (MN)
Black Hills State University (SD)
Bloomsburg University of Pennsylvania (PA)
Bluefield State College (WV)
Boise State University (ID)
Bowie State University (MD)
Bridgewater State College (MA)
California Polytechnic State University-San Luis Obispo (CA)
California State University-Los Angeles (CA)
California State University-Northridge (CA)
California State University-Stanislaus (CA)
Central Michigan University (MI)
Central Missouri State University (MO)
Central Washington University (WA)
Citadel, the Military College of South Carolina, The (SC)
City University of New York-Bernard M. Baruch College (NY)
Clarion University of Pennsylvania (PA)
Clemson College and State University (GA)
Clemson University (SC)
Cleveland State University (OH)
Clinch Valley College of the University of Virginia (VA)
Coastal Carolina University (SC)
College of Charleston (SC)
College of New Jersey, The (NJ)
College of William and Mary (VA)
Colorado School of Mines (CO)
Columbus State University (GA)
Dakota State University (SD)
Delta State University (MS)
East Carolina University (NC)
East Central University (OK)
East Tennessee State University (TN)
Eastern Illinois University (IL)
Eastern Kentucky University (KY)
Eastern Michigan University (MI)
Eastern New Mexico University Main Campus (NM)
Eastern Washington University (WA)
Edinboro University of Pennsylvania (PA)
Emporia State University (KS)
Fairmont State College (WV)
Ferris State University (MI)
Fitchburg State College (MA)
Florida International University (FL)
Fort Hays State University (KS)
Fort Lewis College (CO)
Francis Marion University (SC)
Frostburg State University (MD)
George Mason University (VA)
Georgia College & State University (GA)
Georgia Institute of Technology (GA)
Georgia Southern University (GA)
Georgia Southwestern State University (GA)
Georgia State University (GA)
Glennville State College (WV)
Grand Valley State University (MI)
Henderson State University (AR)
Idaho State University (ID)
Illinois State University (IL)
Indiana State University (IN)
Indiana University-Bloomington (IN)
Indiana University-East (IN)
Indiana University-Kokomo (IN)
Indiana University-Northwest (IN)
Indiana University-Purdue University Fort Wayne (IN)
Indiana University-Purdue University Indianapolis (IN)
Indiana University-Purdue University Indianapolis (IN)
Indiana University-South Bend (IN)
Indiana University-Southeast (IN)
Indiana University of Pennsylvania (PA)
Jacksonville State University (AL)
James Madison University (VA)
Keene State College (NH)
Kennesaw State University (GA)
Kent State University (OH)
Kutztown University of Pennsylvania (PA)
Lamar University-Beaumont (TX)
Lander University (SC)
Lock Haven University of Pennsylvania (PA)
Longwood College (VA)
Louisiana State University and A & M College (LA)
Louisiana State University-Shreveport (LA)
Louisiana Tech University (LA)
Marshall University (WV)
Massachusetts College of Liberal Arts (MA)
University of Michigan-Dearborn (MI)
University of Minnesota-Duluth (MN)
University of Minnesota-Morris (MN)
University of Missouri-Kansas City (MO)
University of Missouri-Saint Louis (MO)
University of Montana-Missoula, The (MT)
University of Montevallo (AL)
University of Nebraska-Kearney (NE)
University of Nebraska-Omaha (NE)
University of Nevada-Las Vegas (NV)
University of Nevada-Reno (NV)
University of North Alabama (AL)
University of North Carolina-Asheville (NC)
University of North Carolina-Charlotte (NC)
University of North Carolina-Greensboro (NC)
University of North Carolina-Pembroke (NC)
University of North Carolina-Wilmington (NC)
University of North Florida (FL)
University of North Texas (TX)
University of Northern Colorado (CO)
University of Pittsburgh-Bradford (PA)
University of Puerto Rico Arecibo University College (PR)
University of South Alabama (AL)
University of South Carolina-Aiken (SC)
University of South Carolina Spartanburg (SC)
University of South Dakota-Vermillion (SD)
University of South Florida-Tampa (FL)
University of Southern Colorado (CO)
University of Southern Indiana (IN)
University of Southern Mississippi (MS)
University of Southwestern Louisiana (LA)
University of Tennessee-Chattanooga (TN)
University of Tennessee-Martin (TN)
University of Tennessee-Memphis (TN)
University of Texas-Arlington (TX)
University of Texas-Dallas (TX)
University of Texas-El Paso (TX)
University of Texas-Pan American (TX)
University of Texas-San Antonio (TX)
University of Texas-Tyler (TX)
University of the Virgin Islands (VI)
University of Toledo (OH)
University of West Alabama, The (AL)
University of West Florida (FL)
University of Wisconsin-Eau Claire (WI)
University of Wisconsin-Green Bay (WI)
University of Wisconsin-La Crosse (WI)
University of Wisconsin-Oshkosh (WI)
University of Wisconsin-Parkside (WI)
University of Wisconsin-Platteville (WI)
University of Wisconsin-Stevens Point (WI)
University of Wisconsin-Stout (WI)
University of Wisconsin-Superior (WI)
University of Wisconsin-Whitewater (WI)
Valdosta State University (GA)

Valley City State University (ND)
Virginia State University (VA)
Washburn University of Topeka (KS)
Washington State University (WA)
Wayne State College (NE)
Weber State University (UT)
West Chester University of Pennsylvania (PA)
Western Carolina University (NC)
Western Connecticut State University (CT)
Western Illinois University (IL)
Western Kentucky University (KY)
Western Michigan University (MI)
Western Montana College (MT)
Western New Mexico University (MN)
Western Oregon University (OR)
Western Washington University (WA)
Wichita State University (KS)
William Paterson University of New Jersey (NJ)
Winston-Salem State University (NC)
Winthrop University (SC)
Worcester State College (MA)
Wright State University Main Campus (OH)
Youngstown State University (OH)
APPENDIX C


Institutions Participating in Both Studies:

- Abilene Christian University (TX)
- Adrian College (MI)
- Agnes Scott College (GA)
- Albertson College (ID)
- Albertus Magnus College (CT)
- Albion College (MI)
- Albright College (PA)
- Alderson Broaddus College (WV)
- Alfred University (NY)
- Allegheny College (PA)
- Allentown College of Saint Francis De Sales (PA)
- Alma College (MI)
- Alvernia College (PA)
- Alverno College (WI)
- American University, The (DC)
- Amherst College (MA)
- Anderson University (IN)
- Anna Maria College (MA)
- Ashland University (OH)
- Assumption College (MA)
- Aurora University (IL)
- Averett College (VA)
- Avila College (MO)
- Azusa Pacific University (CA)
- Babson College (MA)
- Baldwin-Wallace College (OH)
- Barat College (IL)
- Barnard College (NY)
- Barry University (FL)
- Bastyr University (WA)
- Baylor University (TX)
- Beaver College (PA)
- Bellarmine College (KY)
- Belmont Abbey College (NC)
- Belmont University (TN)
- Benedict College (SC)
- Bennett College (NC)
- Bentley College (MA)
- Berea College (KY)
- Bethany College (KS)
- Bethany College (WV)
- Bethel College (IN)
- Bethel College (KS)
- Bethel College (MN)
- Biola University (CA)
- Birmingham-Southern College (AL)
- Bluefield College (VA)
- Bradley University (IL)
- Brandeis University (MA)
- Briar Cliff College (IA)
- Brown University (RI)
- Bryant College (RI)
- Bryn Mawr College (PA)
- Bucknell University (PA)
- Buena Vista University (IA)
- Butler University (IN)
- Cabrini College (PA)
- Caldwell College (NJ)
- California Baptist University (CA)
- Calvin College (MI)
- Campbellsville University (KY)
- Canisius College (NY)
- Capitol College (MD)
- Cardinal Stritch College (WI)
- Carlow College (PA)
- Carroll College (MT)
- Case Western Reserve University (OH)
- Catawba College (NC)
- Catholic University of America, The (DC)
- Cazenovia College (NY)
- Cedarville College (OH)
- Centenary College of Louisiana (LA)
- Central Baptist College (AR)
- Central College (IA)
- Central Methodist College (MO)
- Chapman University (CA)
- Charleston Southern University (SC)
- Christian Brothers University (TN)
- Christian Heritage College (CA)
- Cincinnati Bible College and Seminary (OH)
- Claremont Graduate University (CA)
- Clarke College (IA)
- Clarkson College (NE)
- Clarkson University (NY)
- Clear Creek Baptist Bible College (KY)
- Colby-Sawyer College (NH)
- Colgate University (NY)
- College Misericordia (PA)
- College of Mount Saint Joseph (OH)
- College of New Rochelle (NY)
- College of Notre Dame of Maryland (MD)
- College of Our Lady of the Elms (MA)
- College of Saint Catherine (MN)
- College of Saint Elizabeth (NJ)
- College of Saint Mary (NE)
- College of Saint Rose (NY)
- College of Saint Scholastica (MN)
- College of Santa Fe (NM)
- College of the Southwest (NM)
- Columbia International University (SC)
<table>
<thead>
<tr>
<th>College Name</th>
<th>State/Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concordia College-Moorhead (MN)</td>
<td></td>
</tr>
<tr>
<td>Concordia University (CA)</td>
<td></td>
</tr>
<tr>
<td>Concordia University-Wisconsin (WI)</td>
<td></td>
</tr>
<tr>
<td>Converse College (SC)</td>
<td></td>
</tr>
<tr>
<td>Cornerstone College and Grand Rapids Baptist</td>
<td></td>
</tr>
<tr>
<td>Seminary (MI)</td>
<td></td>
</tr>
<tr>
<td>Covenant College (GA)</td>
<td></td>
</tr>
<tr>
<td>Creighton University (NE)</td>
<td></td>
</tr>
<tr>
<td>Culver-Stockton College (MO)</td>
<td></td>
</tr>
<tr>
<td>D'Youville College (NY)</td>
<td></td>
</tr>
<tr>
<td>Dakota Wesleyan University (SD)</td>
<td></td>
</tr>
<tr>
<td>Davidson College (NC)</td>
<td></td>
</tr>
<tr>
<td>Davis &amp; Elkins College (WV)</td>
<td></td>
</tr>
<tr>
<td>Defiance College, The (OH)</td>
<td></td>
</tr>
<tr>
<td>DePaul University (IL)</td>
<td></td>
</tr>
<tr>
<td>Dickinson College (PA)</td>
<td></td>
</tr>
<tr>
<td>Doane College (NE)</td>
<td></td>
</tr>
<tr>
<td>Dominican College of Blauvelt (NY)</td>
<td></td>
</tr>
<tr>
<td>Dominican College of San Rafael (CA)</td>
<td></td>
</tr>
<tr>
<td>Dominican University (IL)</td>
<td></td>
</tr>
<tr>
<td>Drake University (IA)</td>
<td></td>
</tr>
<tr>
<td>Drury College (MO)</td>
<td></td>
</tr>
<tr>
<td>Duquesne University (PA)</td>
<td></td>
</tr>
<tr>
<td>Eastern Mennonite University (VA)</td>
<td></td>
</tr>
<tr>
<td>Eckerd College (FL)</td>
<td></td>
</tr>
<tr>
<td>Edgewood College (WI)</td>
<td></td>
</tr>
<tr>
<td>Elizabethtown College (PA)</td>
<td></td>
</tr>
<tr>
<td>Elon College (NC)</td>
<td></td>
</tr>
<tr>
<td>Embry-Riddle Aeronautical University (FL)</td>
<td></td>
</tr>
<tr>
<td>Emerson College (MA)</td>
<td></td>
</tr>
<tr>
<td>Emory University (GA)</td>
<td></td>
</tr>
<tr>
<td>Fairfield University (CT)</td>
<td></td>
</tr>
<tr>
<td>Fisk University (TN)</td>
<td></td>
</tr>
<tr>
<td>Florida Southern College (FL)</td>
<td></td>
</tr>
<tr>
<td>Fontbonne College (MO)</td>
<td></td>
</tr>
<tr>
<td>Francisca University of Steubenville (OH)</td>
<td></td>
</tr>
<tr>
<td>Franklin College of Indiana (IN)</td>
<td></td>
</tr>
<tr>
<td>Freed-Hardeman University (TN)</td>
<td></td>
</tr>
<tr>
<td>Friends University (KS)</td>
<td></td>
</tr>
<tr>
<td>Gannon University (PA)</td>
<td></td>
</tr>
<tr>
<td>Gardner-Webb University (NC)</td>
<td></td>
</tr>
<tr>
<td>George Washington University (DC)</td>
<td></td>
</tr>
<tr>
<td>Georgetown College (KY)</td>
<td></td>
</tr>
<tr>
<td>Georgian Court College (NJ)</td>
<td></td>
</tr>
<tr>
<td>Gonzaga University (WA)</td>
<td></td>
</tr>
<tr>
<td>Gordon College (MA)</td>
<td></td>
</tr>
<tr>
<td>Goshen College (IN)</td>
<td></td>
</tr>
<tr>
<td>Grand Canyon University (AZ)</td>
<td></td>
</tr>
<tr>
<td>Grand View College (IA)</td>
<td></td>
</tr>
<tr>
<td>Grinnell College (IA)</td>
<td></td>
</tr>
<tr>
<td>Guilford College (NC)</td>
<td></td>
</tr>
<tr>
<td>Gustavus Adolphus College (MN)</td>
<td></td>
</tr>
<tr>
<td>Gwynedd-Mercy College (PA)</td>
<td></td>
</tr>
<tr>
<td>Hampden-Sydney College (VA)</td>
<td></td>
</tr>
<tr>
<td>Hartwick College (NY)</td>
<td></td>
</tr>
<tr>
<td>Heidelberg College (OH)</td>
<td></td>
</tr>
<tr>
<td>Hendrix College (AR)</td>
<td></td>
</tr>
<tr>
<td>Hilbert College (NY)</td>
<td></td>
</tr>
<tr>
<td>Hiram College (OH)</td>
<td></td>
</tr>
<tr>
<td>Holy Family College (PA)</td>
<td></td>
</tr>
<tr>
<td>Hope College (MI)</td>
<td></td>
</tr>
<tr>
<td>Houghton College (NY)</td>
<td></td>
</tr>
<tr>
<td>Houston Baptist University (TX)</td>
<td></td>
</tr>
<tr>
<td>Howard University (DC)</td>
<td></td>
</tr>
<tr>
<td>Husson College (ME)</td>
<td></td>
</tr>
<tr>
<td>Illinois Institute of Technology (IL)</td>
<td></td>
</tr>
<tr>
<td>Immaculata College (PA)</td>
<td></td>
</tr>
<tr>
<td>Inter American University of Puerto Rico-</td>
<td></td>
</tr>
<tr>
<td>Barranquitas (PR)</td>
<td></td>
</tr>
<tr>
<td>Inter American University of Puerto Rico-Bayamon</td>
<td></td>
</tr>
<tr>
<td>(PR)</td>
<td></td>
</tr>
<tr>
<td>Iona College (NY)</td>
<td></td>
</tr>
<tr>
<td>Ithaca College (NY)</td>
<td></td>
</tr>
<tr>
<td>Jacksonville University (FL)</td>
<td></td>
</tr>
<tr>
<td>Jamestown College (ND)</td>
<td></td>
</tr>
<tr>
<td>John Brown University (AR)</td>
<td></td>
</tr>
<tr>
<td>John Carroll University (OH)</td>
<td></td>
</tr>
<tr>
<td>Johns Hopkins University (MD)</td>
<td></td>
</tr>
<tr>
<td>Judson College (AL)</td>
<td></td>
</tr>
<tr>
<td>Kalamazoo College (MI)</td>
<td></td>
</tr>
<tr>
<td>Kenyon College (OH)</td>
<td></td>
</tr>
<tr>
<td>Keuka College (NY)</td>
<td></td>
</tr>
<tr>
<td>King’s College (PA)</td>
<td></td>
</tr>
<tr>
<td>La Roche College (PA)</td>
<td></td>
</tr>
<tr>
<td>La Salle University (PA)</td>
<td></td>
</tr>
<tr>
<td>La Sierra University (CA)</td>
<td></td>
</tr>
<tr>
<td>Lakeland College (WI)</td>
<td></td>
</tr>
<tr>
<td>Le Moyne College (NY)</td>
<td></td>
</tr>
<tr>
<td>Lebanon Valley College (PA)</td>
<td></td>
</tr>
<tr>
<td>Lees-McRae College (NC)</td>
<td></td>
</tr>
<tr>
<td>Lenoir-Rhyne College (NC)</td>
<td></td>
</tr>
<tr>
<td>LeTourneau University (TX)</td>
<td></td>
</tr>
<tr>
<td>Limestone College (SC)</td>
<td></td>
</tr>
<tr>
<td>Lincoln Memorial University (TN)</td>
<td></td>
</tr>
<tr>
<td>Lindsey Wilson College (KY)</td>
<td></td>
</tr>
<tr>
<td>Long Island University (NY)</td>
<td></td>
</tr>
<tr>
<td>Louisiana College (LA)</td>
<td></td>
</tr>
<tr>
<td>Loyola College in Maryland (MD)</td>
<td></td>
</tr>
<tr>
<td>Loyola Marymount University (CA)</td>
<td></td>
</tr>
<tr>
<td>Loyola University New Orleans (LA)</td>
<td></td>
</tr>
<tr>
<td>Luther College (IA)</td>
<td></td>
</tr>
<tr>
<td>Lycoming College (PA)</td>
<td></td>
</tr>
<tr>
<td>Lynchburg College (VA)</td>
<td></td>
</tr>
<tr>
<td>Lyon College (AR)</td>
<td></td>
</tr>
<tr>
<td>Madonna University (MI)</td>
<td></td>
</tr>
<tr>
<td>Malone College (OH)</td>
<td></td>
</tr>
<tr>
<td>Manhattan Christian College (KS)</td>
<td></td>
</tr>
<tr>
<td>Marian College (IN)</td>
<td></td>
</tr>
<tr>
<td>Marion College of Fond du Lac (WI)</td>
<td></td>
</tr>
<tr>
<td>Marietta College (OH)</td>
<td></td>
</tr>
<tr>
<td>Marist College (NY)</td>
<td></td>
</tr>
<tr>
<td>Mars Hill College (NC)</td>
<td></td>
</tr>
</tbody>
</table>
Mary Baldwin College (VA)
Marycrest International University (IA)
Marymount College of Tarrytown (NY)
Marymount University (VA)
Maryville University of Saint Louis (MO)
Marywood University (PA)
Massachusetts Institute of Technology (MA)
McMurry University (TX)
Medaille College (NY)
Mercer University (GA)
Mercy College (NY)
Merrimack College (MA)
Messiah College (PA)
Midland Lutheran College (NE)
Midway College (KY)
Milligan College (TN)
Millikin University (IL)
Missouri Baptist College (MO)
Monmouth College (IL)
Morningside College (IA)
Mount Saint Clare College (IA)
Mount Saint Mary's College and Seminary (MD)
Mulheren College (PA)
Muskingum College (OH)
National University (CA)
Neumann College (PA)
New Hampshire College (NH)
Niagara University (NY)
North Central College (IL)
Northeastern University (MA)
Northland College (WI)
Northwest Christian College (OR)
Northwestern College (IA)
Northwestern College (MN)
Norwich University (VT)
Notre Dame College (NH)
Oakwood College (AL)
Occidental College (CA)
Oglethorpe University (GA)
Ohio Northern University (OH)
Oklahoma Baptist University (OK)
Our Lady of the Lake University (TX)
Pacific Lutheran University (WA)
Palm Beach Atlantic College (FL)
Pepperdine University (CA)
Piedmont College (GA)
Pikeville College (KY)
Point Park College (PA)
Presbyterian College (SC)
Providence College (RI)
Quincy University (IL)
Randolph-Macon College (VA)
Reed College (OR)
Regent University (VA)
Regis College (MA)
Rensselaer Polytechnic Institute (NY)
Rhode Island School of Design (RI)
Rhodes College (TN)
Rider University (NJ)
Ripon College (WI)
Rivier College (NH)
Roanoke College (VA)
Robert Morris College (PA)
Rockford College (IL)
Rockhurst College (MO)
Rocky Mountain College (MT)
Rollins College (FL)
Roosevelt University (IL)
Rose-Human Institute of Technology (IN)
Sacred Heart Major Seminary/College and Theologiate (MI)
Sacred Heart University (CT)
Sage Colleges, The (NY)
Saint Andrews Presbyterian College (NC)
Saint Bonaventure University (NY)
Saint Edward's University (TX)
Saint Francis College (PA)
Saint John Fisher College (NY)
Saint Joseph's College (IN)
Saint Martin's College (WA)
Saint Mary College (KS)
Saint Mary's College (IN)
Saint Mary's College of California (CA)
Saint Mary's University (TX)
Saint Mary's University of Minnesota (MN)
Saint Peter's College (NJ)
Saint Xavier University (IL)
Salem College (NC)
Salve Regina University (RI)
Santa Clara University (CA)
 Scripps College (CA)
Seattle Pacific University (WA)
Seattle University (WA)
Seton Hill College (PA)
Shorter College (GA)
Siena College (NY)
Siena Heights University (MI)
Simpson College (IA)
Smith College (MA)
Southeastern College of the Assemblies of God (FL)
Southern Adventist University (TN)
Southern California College (CA)
Southern Methodist University (TX)
Spalding University (KY)
Spring Hill College (AL)
Springfield College (MA)
Stanford University (CA)
Susquehanna University (PA)
Sweet Briar College (VA)
Tabor College (KS)
Teikyo Post University (CT)
Texas Christian University (TX)
NOTICE

REPRODUCTION BASIS

☐ This document is covered by a signed "Reproduction Release (Blanket) form (on file within the ERIC system), encompassing all or classes of documents from its source organization and, therefore, does not require a "Specific Document" Release form.

☐ This document is Federally-funded, or carries its own permission to reproduce, or is otherwise in the public domain and, therefore, may be reproduced by ERIC without a signed Reproduction Release form (either "Specific Document" or "Blanket").