North Dakota University System

Creating a University System for the 21st Century

Follow-up Report: 2005 Placements of 2004 NDUS Graduates

May 2007



The Vital Link to a Brighter Future

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EXECUTIVE SUMMARY

Some of the questions most often asked of the North Dakota University System (NDUS) relate to the status of graduates and program completers of system institutions. The Follow-up Information on North Dakota Education and Training (FINDET) Report is produced by a consortium of state agencies formed to provide answers to those questions. This report describes the employment status of academic year 2004 graduates one year after graduation.

More than one-half (54.1 percent) of all 2004 graduates stayed in the state according to the databases available to FINDET for generating follow-up information. Based on weighted data, however, the total number of 2004 graduates either employed in North Dakota or reenrolled in North Dakota institutions one year after graduation is about 59.5 percent.¹

As expected, a higher proportion of resident graduates remain in the state after graduation than non-resident graduates. Again, using weighted data, the total North Dakota resident retention rate rises to 71.8 percent.² These statistics dispel the myth that a majority of NDUS graduates leave the state after graduation.

In addition to North Dakota residents who graduated from NDUS institutions, a significant proportion of 2004 graduates from surrounding states also remained in North Dakota after graduation. FINDET was able to locate 27.7 percent of South Dakota residents, 31.1 percent of Minnesota residents and 34.4 percent of Montana residents remaining in the state one year after graduation. When adjusted for jobs not in the state's employment database, North Dakota retains 30.5 percent of South Dakota students, 34.2 percent of Minnesota students and 37.8 percent of Montana students.

Graduates of some widely attended programs stay in the state at an especially high rate. Examples include allied health (74.2 percent), teacher education and related programs (59.1 percent) and business and management-related programs (59.5 percent).

More than one-half of all graduates (53.1 percent, unadjusted) who stayed in the state were employed in service industries; more than 60 percent of these graduates were employed in either health services (29.7 percent) or educational services (30.8 percent). The employment data analysis shows graduates from various programs obtained employment in a wide range of industries.

2004 graduates of NDUS institutions who stayed in the state make significant contributions, not only to the private sector workforce (2,287 graduates), but also to local government, including school districts (414 graduates) and state government (261 graduates). A large number of 2004 graduates of baccalaureate programs (1,742 students) and one and two-year programs (1,345 students) remained in the state.

2004 graduates of NDUS colleges and universities earned a median monthly full-time wage of \$2,339 one year after graduation. This is nearly equal to the state median of \$2,447 for all wage earners even though these graduates are just beginning their careers. As these graduates become established and progress in their professions, their earnings will increase accordingly, thereby contributing to increased income and higher standards of living in North Dakota.

As might be expected, there is a direct relationship between the level of education and earnings. Professional program (law, medicine and pharmacy) graduates earn higher median monthly wages than graduate program graduates. On average, graduate program graduates earned more than four-year degree program graduates who, in turn, earned more than one and two-year program graduates. Overall, the income of graduates varied significantly, not only by degree level, but also by area of study.

¹ According to the North Dakota Department of Labor, between 6 and 15 percent of the state workforce is employed in jobs not reported in the state's employment database. This group includes people who are self-employed (e.g., farmers) and individuals not covered by unemployment insurance (e.g., federal and railroad employees). Job Service North Dakota estimates about 10 percent of the workforce is not currently reported. This report assumes the 54.1 percent of graduates accounted for by FINDET represent only 90 percent of the graduates who remained in the state with the remaining 10 percent employed in jobs not included in the state's employment database.

² This report assumes the 65.3 percent of North Dakota residents accounted for by FINDET represent only 90 percent of North Dakota resident graduates who remained in the state one year after graduation with the remaining 10 percent employed in jobs not included in the state's employment database.

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INTRODUCTION

This report is based on information prepared by the Follow-up Information on North Dakota Education and Training (FINDET) Office at the request of the North Dakota University System. FINDET is a consortium of several state agencies established to assess outcomes of education and training programs in North Dakota. The central purpose of FINDET is to improve instructional and program planning decisions and to avoid unnecessary duplication of effort among state agencies.

The cooperative entities that established the FINDET system include:

- College Technical Education Council of the NDUS
- Job Service North Dakota
- North Dakota Association of Placement Personnel
- North Dakota Career Resources Network
- North Dakota Department of Commerce
- North Dakota Department of Human Services
- North Dakota Department of Labor
- North Dakota Department of Public Instruction
- North Dakota School-to-Work Opportunities System
- North Dakota State College of Science (Special Initiatives Project)
- North Dakota Tech Prep
- North Dakota University System
- North Dakota Workers Compensation Bureau
- North Dakota Workforce Development Council
- State Board for Vocational and Technical Education

The information presented in this report is intended to provide members of the State Board of Higher Education and campus administrators a useful basis for policy formulation, program planning and student advising. In particular, the report provides answers to some questions most commonly asked of the University System, such as:

- Where and in what industries are graduates employed?
- How many graduates remain in the state?
- How does income compare among degree levels and areas of study?

The agencies and organizations that collaborated in establishing the FINDET system recognize the importance of cooperation in providing useful and cost-effective information about program planning, advising and accountability. Equally as important, the agencies and organizations supporting the FINDET system understand the importance of confidentiality. Consequently, safeguards have been established to protect the privacy and confidentiality of personal information received or reported by the FINDET Office, including specific legislation passed during the 1997 North Dakota Legislative Session. As a tool for program planning and policy development, the data provided by FINDET is focused on categories of graduates and not on individuals.

It should be noted that there is about a two-year time span from when the majority of graduates complete degrees (spring of the year) to the availability of job placement information. Follow-up FINDET reports are timed to provide information about graduates one year after graduation. An additional four months is required to allow for consolidation of unemployment insurance wage and employer files (UI files) by Job Service North Dakota. The graduate list is then matched with the UI files, after which a list of unlocated graduates is provided to other sources for comparison to their existing databases. This list is protected by confidentiality agreements. Those sources include the U.S. Department of Defense, the U.S. Postal Service and the Federal Office of Personnel Management. The matching processes, data analysis and report production require several months.

It also should be noted that, through interagency cooperation, nearly all 2004 graduates of NDUS institutions are accounted for in this report. In addition, relevant data was available about most graduates. The number of cases where the relevant information is unknown is relatively small in comparison to the size of the database. For example, as illustrated in Table 4, the state of residency was unknown in less than 1 percent of the total database.

For clarification and understanding, tables in this report should not be distributed without the methodological notes presented in Appendix B.

PROFILE OF GRADUATES

This report provides information about graduates of North Dakota University System (NDUS) colleges and universities one year after graduation. To generate the information in this report, NDUS institutions provided the FINDET Office with information about all graduates, including degrees earned and academic programs completed. By using graduates' Social Security Numbers, the FINDET Office was able to match NDUS records with employment information provided by Job Service North Dakota. This state agency receives employment and compensation information for everyone employed in the state except people who are self-employed (e.g., farmers) or not covered by unemployment insurance (e.g., federal and railroad employees). The FINDET Office links education and employment information to provide the important education outcome information presented in this report.

The data in Table 1 and Figure 1 show that 6,379 students graduated from NDUS colleges and universities in academic year 2004 (July 1, 2003 to June 30, 2004). Of those, 3,211 were female and 3,168 were male.

| Table 1 North Dakota University System Academic Year 2004 Graduates by Gender | | | | | | |
|--|-----------|----------|--|--|--|--|
| | | | | | | |
| Gender | Graduates | of Total | | | | |
| Female | 3,211 | 50.3% | | | | |
| Male | 3,168 | 49.7% | | | | |
| Total | 6,379 | 100.0% | | | | |

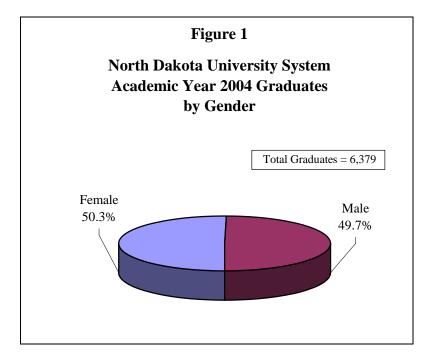
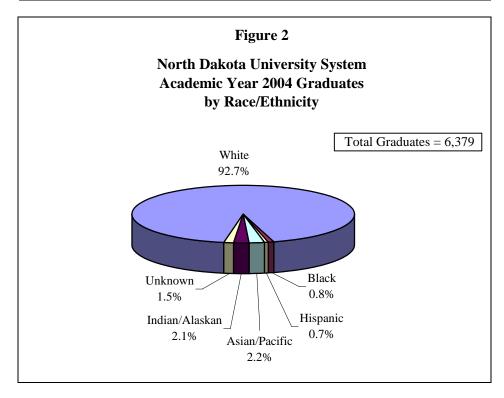


Table 2 and Figure 2 describe the race/ethnicity of graduates and show that 92.7 percent (5,916 graduates) were classified as White. Only 2.1 percent were American Indian/Alaskan and 2.2 percent were Asian/Pacific Islanders.

| Table 2 North Dakota University System Academic Year 2004 Graduates by Race/Ethnicity | | | | | | | | | |
|--|-----------|----------|--|--|--|--|--|--|--|
| | | | | | | | | | |
| Race | Graduates | of Total | | | | | | | |
| American Indian/Alaskan | 133 | 2.1% | | | | | | | |
| Asian/Pacific Islander | 140 | 2.2% | | | | | | | |
| Black | 54 | 0.8% | | | | | | | |
| Hispanic | 43 | 0.7% | | | | | | | |
| White | 5,916 | 92.7% | | | | | | | |
| Other | 0 | 0.0% | | | | | | | |
| Subtotal | 6,286 | 98.5% | | | | | | | |
| Race Unknown | 93 | 1.5% | | | | | | | |
| Total | 6,379 | 100.0% | | | | | | | |



As illustrated in Table 3 and Figure 3, the overwhelming majority of graduates (81.1 percent) were in the 20-29 age group (Table/Figure 3). Only 4.9 percent were ages 40 to 49, while 1.7 percent were age 50 or above. The average age was 25.5 years.

| Table 3 North Dakota University System Academic Year 2004 Graduates by Age Group | | | | | | | |
|---|-----------|--------------------------|--|--|--|--|--|
| Percentage | | | | | | | |
| Age Group | Graduates | of Total | | | | | |
| Under 20 | 167 | 2.6% | | | | | |
| 20-29 | 5,173 | 81.1% | | | | | |
| 30-39 | 616 | 9.7% | | | | | |
| 40-49 | 312 | 4.9% | | | | | |
| 50 & Above | 109 | 1.7% | | | | | |
| Subtotal | 6,377 | 100.0% | | | | | |
| Age Unknown | 2 | 0.0% | | | | | |
| Total | 6,379 | 100.0% | | | | | |
| | <u> </u> | Average Age = 25.5 years | | | | | |

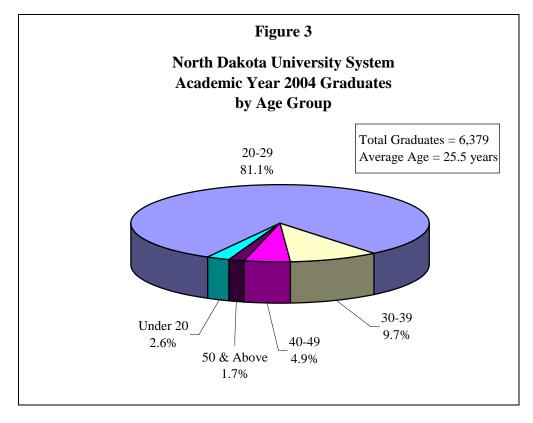
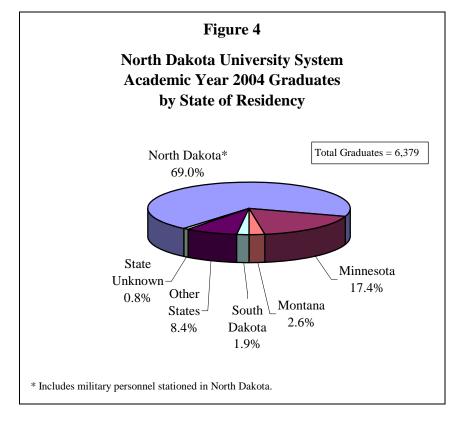


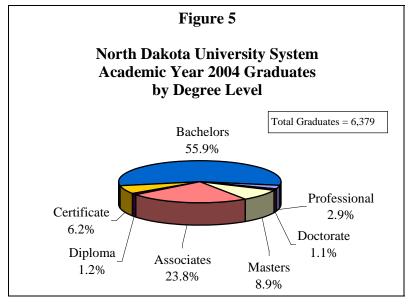
Table 4 and Figure 4 show that 69 percent of NDUS graduates were North Dakota residents; 17.4 percent were from Minnesota, 2.6 percent from Montana and 1.9 percent from South Dakota. Several factors play a role in student migration into North Dakota, including population demographics, the proximity of North Dakota institutions to border states and specific requirements of student exchange agreements.

| North Dakota University System Academic Year 2004 Graduates by State of Residency | | | | | | | | |
|---|-----------|------------------------|--|--|--|--|--|--|
| State of Residency | Graduates | Percentage of Total | | | | | | |
| North Dakota * | 4,402 | 69.0% | | | | | | |
| Minnesota | 1,109 | 17.4% | | | | | | |
| Montana | 163 | 2.6% | | | | | | |
| South Dakota | 119 | 1.9% | | | | | | |
| Other States/Countries | 538 | 8.4% | | | | | | |
| Subtotal | 6,331 | 99.2% | | | | | | |
| State Unknown | 48 | 0.8% | | | | | | |
| Total 6,379 100.0% | | | | | | | | |



As shown in Table 5 and Figure 5, more than one-half (3,565 or 55.9 percent) of academic year 2004 graduates of NDUS institutions completed baccalaureate degree programs. Almost 2,000 graduates (1,992 or 31.2 percent) completed certificate, diploma or associate degree programs. More than 600 students (640 or 10 percent) completed graduate degree programs. The 182 professional program graduates comprised 2.9 percent of the total 2004 graduates. As defined by State Board of Higher Education policy, certificate programs require at least 16 credit hours at the undergraduate level or eight credit hours at the graduate level. In comparison, diploma programs are vocational/technical programs that require some general education coursework and are completed in two years or less. Associate degree programs include associate in arts and associate in science degrees that primarily prepare students for transfer to baccalaureate-level programs, as well as associate of applied science programs that prepare students to directly enter the workforce. Professional programs include medicine (M.D.), pharmacy (Pharm.D.), and law (Juris Doctor or J.D.).

| Tab | le 5 | | | | | | | |
|---|-------|--------|--|--|--|--|--|--|
| North Dakota University System Academic Year 2004 Graduates by Degree Level | | | | | | | | |
| Degree Level Percentage Graduates of Total | | | | | | | | |
| One and Two-Year Programs | | | | | | | | |
| Certificate | 394 | 6.2% | | | | | | |
| Diploma | 77 | 1.2% | | | | | | |
| Associates | 1,521 | 23.8% | | | | | | |
| Four-Year Programs | | | | | | | | |
| Bachelors | 3,565 | 55.9% | | | | | | |
| Graduate Programs | | | | | | | | |
| Masters | 570 | 8.9% | | | | | | |
| Doctorate | 70 | 1.1% | | | | | | |
| Professional Programs | | | | | | | | |
| Professional | 182 | 2.9% | | | | | | |
| Total | 6,379 | 100.0% | | | | | | |



The NDUS uses the U.S. Department of Education's National Center for Education Statistics (NCES) six-digit Classification of Instructional Programs (CIP codes) to classify or catalog academic programs. CIP coding provides a mechanism for grouping similar academic programs with somewhat different titles into one category and for identifying academically related categories. The 2000 edition of the Classification of Instructional Programs was used for this report.

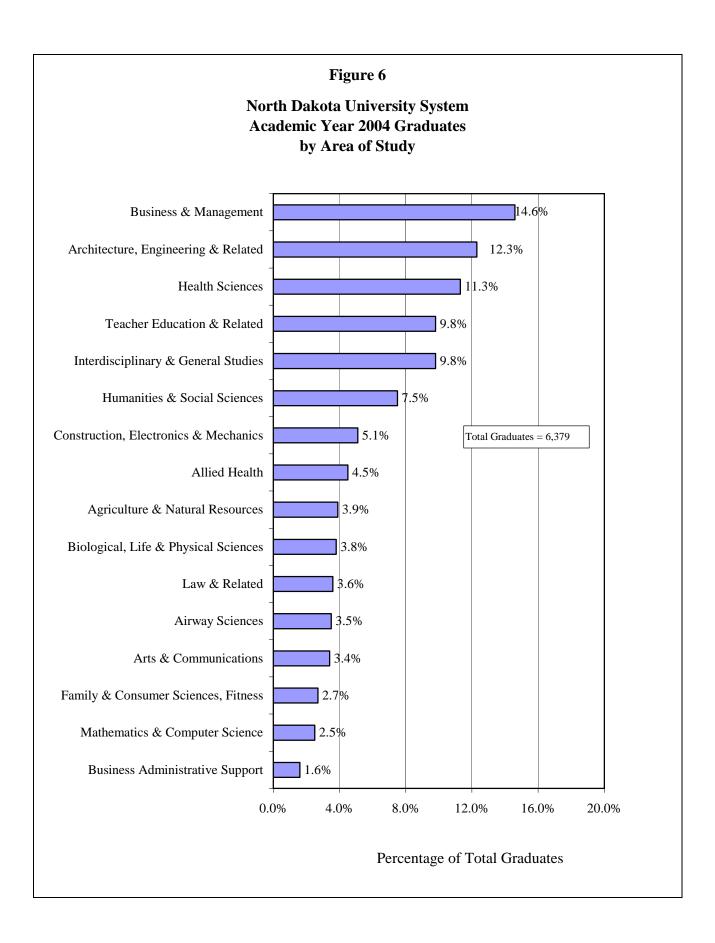
As shown in Table 6 and Figure 6, a relatively large portion of students graduated in five academic areas:

- 1) business and management
- 2) architecture, engineering and related areas
- 3) health sciences
- 4) teacher education and related areas
- 5) interdisciplinary and general studies

These five academic areas accounted for more than 57 percent of system graduates in 2004. The program area with the smallest percentage of graduates at every level of education was business administrative support with 1.6 percent (100 students).

Table 6 North Dakota University System Academic Year 2004 Graduates by Area of Study

| | | Percentage |
|---|-----------|------------|
| Area of Study | Graduates | of Total |
| Agriculture & Natural Resources | 249 | 3.9% |
| Airway Sciences | 224 | 3.5% |
| Allied Health | 287 | 4.5% |
| Architecture, Engineering & Related | 784 | 12.3% |
| Arts & Communications | 219 | 3.4% |
| Biological, Life, & Physical Sciences | 244 | 3.8% |
| Business Administrative Support | 100 | 1.6% |
| Business & Management | 933 | 14.6% |
| Construction, Electronics, & Mechanics | 324 | 5.1% |
| Family & Consumer Sciences, Fitness Related | 175 | 2.7% |
| Health Sciences | 719 | 11.3% |
| Humanities & Social Sciences | 479 | 7.5% |
| Interdisciplinary & General Studies | 626 | 9.8% |
| Law & Related | 230 | 3.6% |
| Mathematics & Computer Science | 158 | 2.5% |
| Teacher Education & Related | 628 | 9.8% |
| Subtotal | 6,379 | 100.0% |
| Area of Study Unknown | 0 | 0.0% |
| Total | 6,379 | 100.0% |



STATUS OF GRADUATES ONE YEAR AFTER GRADUATION

As shown in Table 7, Figure 7 and Figure 7-A, 54.1 percent (unadjusted) of NDUS institution academic year 2004 graduates remained in North Dakota one year after graduation.

Females stayed at a higher rate (58.1 percent) than males (49.9 percent). This total includes 37.2 percent of graduates who were employed in North Dakota, 7.3 percent who were re-enrolled in North Dakota institutions and 9.6 percent who were both employed in North Dakota and re-enrolled in NDUS institutions.

According to the North Dakota Department of Labor, between 6 and 15 percent of the state workforce is employed in jobs not included in the employment database available to FINDET. Although the percentages vary somewhat from year to year, Job Service North Dakota currently estimates about 10 percent of the workforce is not reported. In addition, many graduates may be unemployed and re-enrolled in a non-NDUS institution or living in North Dakota, but delaying both additional education and a career for a variety of reasons, such as raising a family. If graduates are employed proportionately in reported and unreported occupations and/or attending NDUS and non-NDUS institutions, the actual percentage of graduates retained in North Dakota would be about 10 percent higher (i.e. 59.5 percent) than the 54.1 percent reported in Table 7.

It is important to note that the following tables are based on a total of 6,339 graduates, rather than the total of 6,379 graduates used in Tables 1-7. This results from invalid Social Security Numbers for 40 graduates.

Table 7

North Dakota University System Academic Year 2004 Graduates One Year After Graduation by Gender

| | | Total Retained in North Dakota ^{1/} | | Employed in North Dakota Only ^{2/} | | | rolled in S Only ^{3/} | Both Employed in ND and Re-enrolled in NDUS | | |
|--------|-----------|---|------------|--|------------|--------|-----------------------------------|---|------------|--|
| Gender | Graduates | Number | Percentage | Number | Percentage | Number | Percentage | Number | Percentage | |
| Female | 3,197 | 1,859 | 58.1% | 1,228 | 38.4% | 249 | 7.8% | 382 | 11.9% | |
| Male | 3,142 | 1,568 | 49.9% | 1,131 | 36.0% | 213 | 6.8% | 224 | 7.1% | |
| Total | 6,339 4/ | 3,427 | 54.1% | 2,359 | 37.2% | 462 | 7.3% | 606 | 9.6% | |

^{1/} Does not account for graduates who were in North Dakota but unemployed, employed in jobs not covered by unemployment insurance, or attending private colleges.

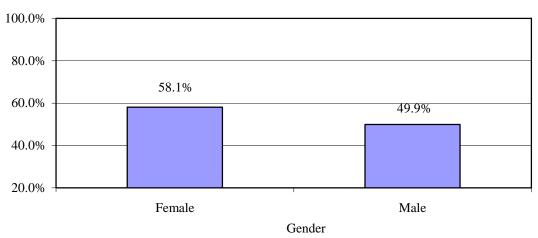
^{2/} Total graduates employed in ND = "Employed in ND Only" + "Both Employed in ND and Re-enrolled in the NDUS."

^{3/} Total graduates re-enrolled in NDUS="Re-enrolled in NDUS Only" + "Both Employed in ND and Re-enrolled in the NDUS."

^{4/} Excludes 40 graduates for whom invalid Social Security Numbers were reported.



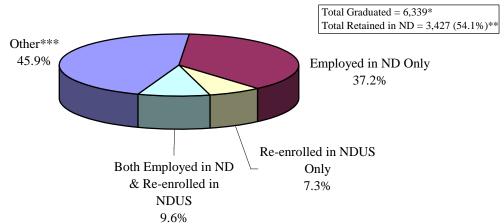
North Dakota University System Academic Year 2004 Graduates Retained in North Dakota One Year After Graduation by Gender



*Retained in North Dakota = graduates employed in the state in jobs covered by unemployment insurance and/or re-enrolled in the North Dakota University System.

Figure 7-A

North Dakota University System Academic Year 2004 Graduates Retained in North Dakota One Year After Graduation



- * Invalid Social Security Numbers were reported for 40 graduates. The percentages reported here are based on the remaining 6,339 graduates.
- ** Total retained in ND does not account for graduates who are in ND but unemployed, employed in jobs not covered by unemployment insurance, or attending private school.
- *** Other = unemployed, out-of-state, employed in jobs not covered by unemployment insurance, enrolled in private school or deceased.

Table 8 and Figure 8 show that continued residence in North Dakota after graduation is highly correlated with race/ethnicity. Since more than 92 percent of graduates were White, the White graduation retention rate of 54.5 percent was a major factor in the total retention rate of 54.1 percent. American Indian/Alaskan graduates were retained at the highest rate (69.2 percent) of all races and were most likely to be employed in North Dakota (49.6 percent).

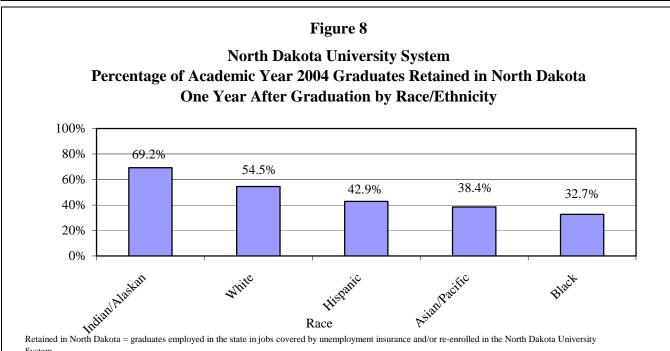
Table 8

North Dakota University System Academic Year 2004 Graduates One Year After Graduation by Race/Ethnicity

| | | Total Retained | | Employed in | | Re-enrolled in | | Both Employed in ND | | |
|------------------------|-----------|----------------|------------------------|-------------|----------------------|----------------|--------------|---------------------|-----------------------|--|
| | | in Nort | h Dakota ^{1/} | North Da | North Dakota Only 2/ | | NDUS Only 3/ | | & Re-enrolled in NDUS | |
| Race | Graduates | Number | Percentage | Number | Percentage | Number | Percentage | Number | Percentage | |
| Amer. Indian/Alaskan | 133 | 92 | 69.2% | 66 | 49.6% | 10 | 7.5% | 16 | 12.0% | |
| Asian/Pacific Islander | 138 | 53 | 38.4% | 19 | 13.8% | 29 | 21.0% | 5 | 3.6% | |
| Black | 52 | 17 | 32.7% | 7 | 13.5% | 3 | 5.8% | 7 | 13.5% | |
| Hispanic | 42 | 18 | 42.9% | 8 | 19.0% | 4 | 9.5% | 6 | 14.3% | |
| White | 5,893 | 3,214 | 54.5% | 2,239 | 38.0% | 411 | 7.0% | 564 | 9.6% | |
| Other | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | |
| Race Unknown | 81 | 33 | 40.7% | 20 | 24.7% | 5 | 6.2% | 8 | 9.9% | |
| Total | 6,339 4/ | 3,427 | 54.1% | 2,359 | 37.2% | 462 | 7.3% | 606 | 9.6% | |

^{1/} Does not account for graduates who were in North Dakota but unemployed, employed in jobs not covered by unemployment insurance, or attending private colleges.

^{4/} Excludes 40 graduates for whom invalid Social Security Numbers were reported.



^{2/} Total graduates employed in ND = "Employed in ND Only" + "Both Employed in ND and Re-enrolled in the NDUS."

^{3/} Total graduates re-enrolled in NDUS = "Re-enrolled in NDUS Only" + "Both Employed in ND and Re-enrolled in the NDUS."

As shown in Table 9 and Figure 9, the youngest and oldest graduates were most likely to stay in the state. However, only 52.5 percent of the 20 to 29 age group, the group with the largest number of graduates, remained in North Dakota.

Table 9 North Dakota University System Status of Academic Year 2004 Graduates One Year After Graduation by Age Group

| | | Total | Retained | Emp | Employed in | | rolled in | Both Employed in ND | |
|-----------|-----------|---------|------------------------|----------|----------------------|--------|------------|-----------------------|------------|
| | | in Nort | h Dakota ^{1/} | North Da | North Dakota Only 2/ | | S Only 3/ | & Re-enrolled in NDUS | |
| Age Group | Graduates | Number | Percentage | Number | Percentage | Number | Percentage | Number | Percentage |
| Under 20 | 164 | 114 | 69.5% | 68 | 41.5% | 15 | 9.1% | 31 | 18.9% |
| 20-29 | 5,142 | 2,699 | 52.5% | 1,866 | 36.3% | 376 | 7.3% | 457 | 8.9% |
| 30-39 | 612 | 355 | 58.0% | 251 | 41.0% | 46 | 7.5% | 58 | 9.5% |
| 40-49 | 312 | 191 | 61.2% | 132 | 42.3% | 20 | 6.4% | 39 | 12.5% |
| 50 & Over | 107 | 68 | 63.6% | 42 | 39.3% | 5 | 4.7% | 21 | 19.6% |
| Age Unk. | 2 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| Total | 6,339 4/ | 3,427 | 54.1% | 2,359 | 37.2% | 462 | 7.3% | 606 | 9.6% |

^{1/} Does not account for graduates who were in North Dakota but unemployed, employed in jobs not covered by unemployment insurance, or attending private colleges.

0%

Under 20

North Dakota University System Academic Year 2004 Graduates Retained in North Dakota One Year After Graduation by Age Group 100% 80% 69.5% 52.5% 58.0% 61.2% 63.6%

Retained in North Dakota = graduates employed in the state in jobs covered by unemployment insurance and/or re-enrolled in the North Dakota University System.

30-39

Age Group

40-49

50 & Over

20-29

^{2/} Total graduates employed in ND = "Employed in ND Only" + "Both Employed in ND and Re-enrolled in the NDUS."

^{3/} Total graduates re-enrolled in NDUS = "Re-enrolled in NDUS Only" + "Both Employed in ND and Re-enrolled in the NDUS."

^{4/} Excludes 40 graduates for whom invalid Social Security Numbers were reported.

As shown in Table 10 and Figure 10, North Dakota resident graduates were more likely to remain in the state after graduation than non-resident graduates. A total of 65.3 percent of the graduates who were residents of North Dakota were accounted for in the databases available to FINDET. Using weighted data, however, 71.8 percent of North Dakota residents stayed in the state². This statistic dispels a common myth that a majority of North Dakota resident graduates leave the state after graduation.

FINDET accounted for 31.1 percent of Minnesota resident graduates, 34.4 percent of Montana resident graduates and 27.7 percent of South Dakota resident graduates in the state one year after graduation. North Dakota resident graduates also were the most likely to either be employed in North Dakota, re-enrolled in an NDUS institution or both following graduation. FINDET accounted for 551 of the 1,937 resident graduates of other states (28 percent of non-resident graduates) in North Dakota one year after graduating from an NDUS institution in 2004. These numbers and percentages are conservative because, as explained in the footnote below, they probably represent only 90 percent of the total graduates actually retained.

Table 10

North Dakota University System Academic Year 2004 Graduates One Year After Graduation by State of Residency

| | | Total Retained | | Employed in | | Re-enrolled in | | Both Employed in ND | | |
|-----------------|-----------|----------------|------------------------|-------------|----------------------|----------------|--------------|---------------------|-----------------------|--|
| State of | | in Nort | h Dakota ^{1/} | North Da | North Dakota Only 2/ | | NDUS Only 3/ | | & Re-enrolled in NDUS | |
| Residency | Graduates | Number | Percentage | Number | Percentage | Number | Percentage | Number | Percentage | |
| North Dakota 4/ | 4,402 | 2,876 | 65.3% | 2,033 | 46.2% | 304 | 6.9% | 539 | 12.2% | |
| Minnesota | 1,109 | 345 | 31.1% | 231 | 20.8% | 76 | 6.9% | 38 | 3.4% | |
| Montana | 163 | 56 | 34.4% | 30 | 18.4% | 16 | 9.8% | 10 | 6.1% | |
| South Dakota | 119 | 33 | 27.7% | 20 | 16.8% | 11 | 9.2% | 2 | 1.7% | |
| Other States | 501 | 101 | 20.2% | 34 | 6.8% | 54 | 10.8% | 13 | 2.6% | |
| State Unknown | 45 | 16 | 35.6% | 11 | 24.4% | 1 | 2.2% | 4 | 8.9% | |
| Total | 6,339 5/ | 3,427 | 54.1% | 2,359 | 37.2% | 462 | 7.3% | 606 | 9.6% | |

^{1/} Does not account for graduates who were in North Dakota but unemployed, employed in jobs not covered by unemployment insurance, or attending private colleges.

5/ Excludes 40 graduates for whom invalid Social Security Numbers were reported.

^{2/} Total graduates employed in ND = "Employed in ND Only" + "Both Employed in ND and Re-enrolled in the NDUS."

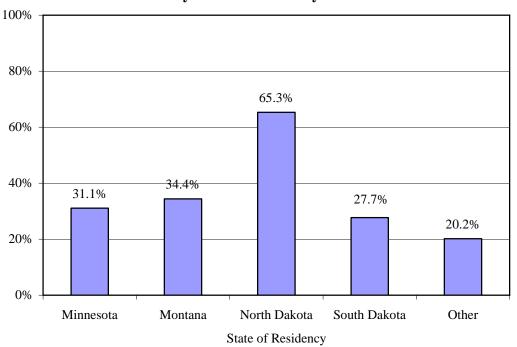
^{3/} Total graduates re-enrolled in NDUS = "Re-enrolled in NDUS Only" + "Both Employed in ND and Re-enrolled the NDUS."

^{4/} Includes military personnel stationed in North Dakota.

² This report assumes 65.3 percent of the North Dakota graduates accounted for by FINDET represent only 90 percent of North Dakota residents who stay in the state one year after graduation with the remaining 10 percent employed in jobs not included in the state's employment database.



North Dakota University System Academic Year 2004 Graduates Retained in North Dakota One Year After Graduation by State of Residency



Retained in North Dakota = graduates employed in the state in jobs covered by unemployment insurance and/or re-enrolled in the North Dakota University System.

Table 11 and Figure 11 show the relationship between degree level and in-state retention. The retention rates for one and two-year program graduates are higher than those of graduates who obtain more advanced degrees. However, because the majority of graduates earned bachelor's degrees, they represent the largest number of graduates who remained in the state.

North Dakota University System Academic Year 2004 Graduates

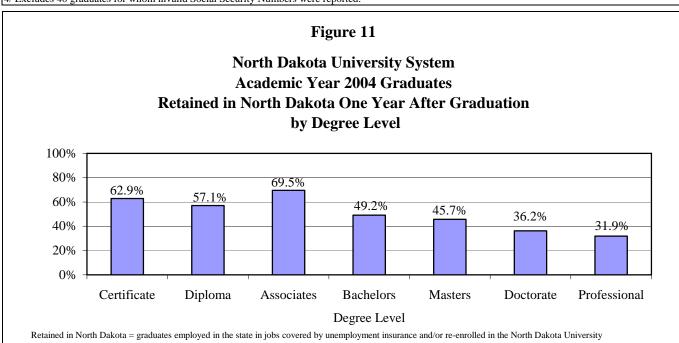
Table 11

One Year After Graduation by Degree Level

| , | | | | | | | | | | | |
|-------------------------|-----------|----------|------------------------|----------|--------------------------|--------|------------|----------------------|------------|--|--|
| | | Total | Retained | Emp | loyed in | Re-en | rolled in | Both Employed in ND | | | |
| | | in Nortl | h Dakota ^{1/} | North Da | akota Only ^{2/} | NDU | S Only 3/ | & Re-enrolled in NDU | | | |
| Degree Level | Graduates | Number | Percentage | Number | Percentage | Number | Percentage | Number | Percentage | | |
| One & Two-Year Programs | | | | | | | | | | | |
| Certificate | 394 | 248 | 62.9% | 176 | 44.7% | 30 | 7.6% | 42 | 10.7% | | |
| Diploma | 77 | 44 | 57.1% | 39 | 50.6% | 2 | 2.6% | 3 | 3.9% | | |
| Associates | 1,516 | 1,053 | 69.5% | 655 | 43.2% | 132 | 8.7% | 266 | 17.5% | | |
| Four-Year Programs | | | | | | | | | | | |
| Bachelors | 3,539 | 1,742 | 49.2% | 1,241 | 35.1% | 259 | 7.3% | 242 | 6.8% | | |
| Graduate Programs | | | | | | | | | | | |
| Masters | 562 | 257 | 45.7% | 169 | 30.1% | 37 | 6.6% | 51 | 9.1% | | |
| Doctorate | 69 | 25 | 36.2% | 24 | 34.8% | 1 | 1.4% | 0 | 0.0% | | |
| Professional Programs | | | | | | | | | | | |
| Professional | 182 | 58 | 31.9% | 55 | 30.2% | 1 | 0.5% | 2 | 1.1% | | |
| Total | 6,339 4/ | 3,427 | 54.1% | 2,359 | 37.2% | 462 | 7.3% | 606 | 9.6% | | |

^{1/} Does not account for graduates who were in North Dakota but unemployed, employed in jobs not covered by unemployment insurance, or attending private colleges.

^{4/} Excludes 40 graduates for whom invalid Social Security Numbers were reported.



^{2/} Total graduates employed in ND = "Employed in ND Only" + "Both Employed in ND and Re-enrolled in the NDUS."

^{3/} Total graduates re-enrolled in NDUS = "Re-enrolled in NDUS Only" + "Both Employed in ND and Re-enrolled in the NDUS."

Table 12 and Figure 12 show that the likelihood of staying in North Dakota is directly related to the graduate's area of study. For example, 77 percent of graduates who have degrees in business administrative support remained in North Dakota. A total of 59.1 percent of graduates who have degrees in teacher education and related areas of study remained in the state as did 40.9 percent of graduates in architecture, engineering and related areas of study.

Three areas of study produced the highest number of graduates: 919 in business and management, 624 in teacher education and related fields, and 784 in architecture, engineering and related fields. With the largest numbers of graduates and a comparatively high retention rate, business and management ranked first in retention of graduates for a total of 547. Interdisciplinary and general studies graduates were most likely to be both employed and reenrolled in NDUS institutions at a rate of 20.1 percent, and health science graduates were most likely to be re-enrolled only and not employed (15.7 percent.) As explained earlier, since employment information available to FINDET does not include self-employed occupations, including farming or federal and railroad occupations, the number of 2004 graduates who remained in North Dakota is estimated to be 6 to 15 percent higher than the numbers reported here.

Table 12 North Dakota University System Academic Year 2004 Graduates One Year After Graduation by Area of Study

| | | | Total Retained in North Dakota ^{1/} | | nployed in Dakota ^{2/} | Only R in N | e-enrolled DUS ^{3/} | Both Employed in ND & Re-enrolled in NDUS | | |
|---|-----------|--------|---|--------|------------------------------------|----------------|---------------------------------|---|------------|--|
| Area of Study | Graduates | Number | Percentage | Number | Percentage | Number | Percentage | Number | Percentage | |
| Agriculture & Natural Resources | 247 | 113 | 45.7% | 73 | 29.6% | 24 | 9.7% | 16 | 6.5% | |
| Airway Sciences | 221 | 40 | 18.1% | 33 | 14.9% | 3 | 1.4% | 4 | 1.8% | |
| Allied Health | 287 | 213 | 74.2% | 150 | 52.3% | 16 | 5.6% | 47 | 16.4% | |
| Architecture, Engineering, & Related | 784 | 321 | 40.9% | 263 | 33.5% | 35 | 4.5% | 23 | 2.9% | |
| Arts & Communications | 217 | 102 | 47.0% | 73 | 33.6% | 5 | 2.3% | 24 | 11.1% | |
| Biological, Life, & Physical Sciences | 243 | 99 | 40.7% | 49 | 20.2% | 38 | 15.6% | 12 | 4.9% | |
| Business Administrative Support | 100 | 77 | 77.0% | 62 | 62.0% | 8 | 8.0% | 7 | 7.0% | |
| Business & Management | 919 | 547 | 59.5% | 439 | 47.8% | 37 | 4.0% | 71 | 7.7% | |
| Construction, Electronics, & Mechanics | 324 | 206 | 63.6% | 179 | 55.2% | 8 | 2.5% | 19 | 5.9% | |
| Family & Consumer Sciences, Fitness | 175 | 71 | 40.6% | 50 | 28.6% | 12 | 6.9% | 9 | 5.1% | |
| Health Sciences | 715 | 391 | 54.7% | 212 | 29.7% | 112 | 15.7% | 67 | 9.4% | |
| Humanities & Social Sciences | 477 | 250 | 52.4% | 151 | 31.7% | 45 | 9.4% | 54 | 11.3% | |
| Interdisciplinary & General Studies | 621 | 403 | 64.9% | 197 | 31.7% | 81 | 13.0% | 125 | 20.1% | |
| Law & Related | 229 | 137 | 59.8% | 119 | 52.0% | 4 | 1.7% | 14 | 6.1% | |
| Mathematics & Computer Science | 156 | 88 | 56.4% | 60 | 38.5% | 16 | 10.3% | 12 | 7.7% | |
| Teacher Education & Related | 624 | 369 | 59.1% | 249 | 39.9% | 18 | 2.9% | 102 | 16.3% | |
| Area of Study Unknown | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | |
| Total | 6,339 4/ | 3,427 | 54.1% | 2,359 | 37.2% | 462 | 7.3% | 606 | 9.6% | |

^{1/} Does not account for graduates who were in North Dakota but unemployed, employed in jobs not covered by unemployment insurance, or attending private colleges.

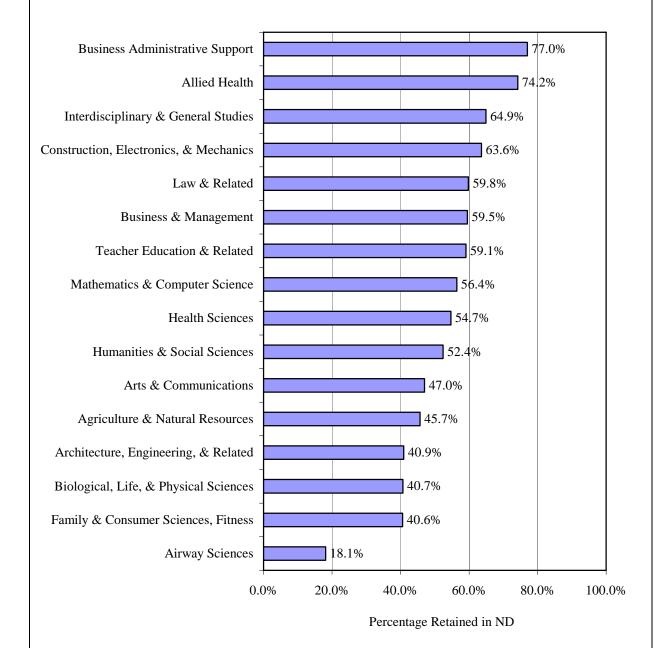
^{2/} Total graduates employed in ND = "Employed in ND Only" + "Both Employed in ND and Re-enrolled in the NDUS."

^{3/} Total graduates re-enrolled in NDUS = "Re-enrolled in NDUS Only" + "Both Employed in ND and Re-enrolled in the NDUS."

^{4/} Excludes 40 graduates for whom invalid Social Security Numbers were reported.



North Dakota University System Academic Year 2004 Graduates Retained in North Dakota One Year After Graduation by Area of Study



Retained in North Dakota = graduates employed in the state in jobs covered by unemployment insurance and/or re-enrolled in the North Dakota University System.

EMPLOYMENT STATISTICS FOR GRADUATES EMPLOYED IN NORTH DAKOTA ONE YEAR AFTER GRADUATION

Information provided by Job Service North Dakota was used to categorize employed graduates by industrial classification areas, such as mining, construction, manufacturing, retail trade and services, and by the type of service industry within the industrial and service classification, such as business services and educational services. Although these classifications were extremely useful, they do not provide the level of detail needed for comprehensive planning. For example, current data could show if a doctor who graduated in 2004 was working in health services. It could not show, however, if the doctor was working as a physician, a custodian or an administrator. The FINDET program currently is exploring how to obtain this level of information from employers without burdening them with detailed reporting requirements. As shown in Table 13-A, 53.1 percent, or the majority of 2004 graduates, were employed in service industries. The FINDET data shows that only 0.5 percent of all 2004 graduates were employed in agriculture, forestry and fishing, but information about self-employed farmers is not included in the available databases.

Table 13-A

North Dakota University System Academic Year 2004 Graduates Employed in North Dakota One Year After Graduation by Industry of Employment

| | Employed | Percentage |
|---|-----------|------------|
| North American Industry Classification System (NAICS) | Graduates | of Total |
| Agriculture, Forestry, & Fishing | 14 | 0.5% |
| Mining | 30 | 1.0% |
| Construction | 154 | 5.2% |
| Manufacturing | 189 | 6.4% |
| Transportation & Public Utilities | 96 | 3.2% |
| Wholesale Trade | 139 | 4.7% |
| Retail Trade | 468 | 15.8% |
| Finance, Insurance, & Real Estate | 175 | 5.9% |
| Services | 1,573 | 53.1% |
| Public Administration | 124 | 4.2% |
| Nonclassifiable Entities | 0 | 0.0% |
| Subtotal | 2,962 | 99.9% |
| Industry Unknown | 3 | 0.1% |
| Total | 2,965 | 100.0% |

Table 13-B and Figure 13 provide a more detailed breakdown of graduates employed in service industries. When compared to all service industries, two types of services led in the retention of 2004 graduates: 30.8 percent of all 2004 graduates working in service industries were employed in educational services, while 29.7 percent were working in health services.

Table 13-B

North Dakota University System
Academic Year 2004 Graduates

Employed in North Dakota One Year After Graduation
in Service Industries Only by Service Industry

| Service Industry | Employed Graduates | Percentage of Total |
|-------------------------------------|-----------------------|------------------------|
| Business Services | 116 | 7.4% |
| Auto Repair, Services & Maintenance | 23 | 1.5% |
| Amusement & Recreation Services | 32 | 2.0% |
| Health Services | 467 | 29.7% |
| Legal Services | 30 | 1.9% |
| Educational Services | 484 | 30.8% |
| Social Services | 97 | 6.2% |
| Professional & Management Services | 214 | 13.6% |
| Other Service Industries | 110 | 7.0% |
| Total | 1,573 | 100.0% |

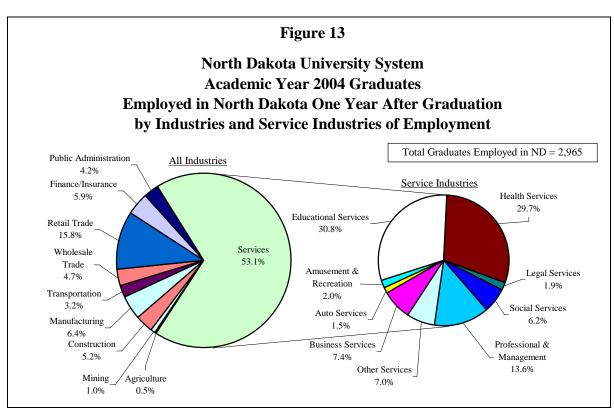


Table 14 and Figure 14 provide information about public and private sector employment of 2004 graduates working in North Dakota one year after graduation. 77.1 percent were employed in the private sector, 14 percent were employed in local government and 8.8 percent in state government.

Table 14 North Dakota University System **Academic Year 2004 Graduates Employed in North Dakota One Year After Graduation** by Sector of Employment **Employed** Percentage **Employment Sector Graduates** of Total State Government 8.8% 261 Local Government 414 14.0% Private 2,287 77.1% Subtotal 2,962 99.9% Sector Unknown 3 0.1% Total 2,965 100.0%

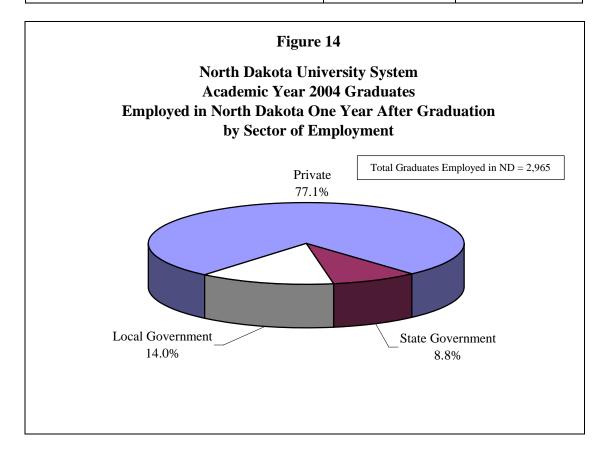


Table 15-A provides information about graduates employed in North Dakota by industry and sector of employment one year after graduation. As might be expected, service industries employed the largest number of 2004 graduates with a total of 1,573 employees.

Table 15-A

North Dakota University System Academic Year 2004 Graduates Employed in North Dakota One Year After Graduation by Industry and Sector of Employment

| | | Employ | ment Sector | r | |
|--|---------------------|---------------------|-------------|-------------------|-------|
| North American Industry Classification System (NAICS) | State Government | Local Government | Private | Sector Unknown | Total |
| Agriculture, Forestry, & Fishing | 0 | 0 | 14 | 0 | 14 |
| Mining | 0 | 0 | 30 | 0 | 30 |
| Construction | 20 | 0 | 134 | 0 | 154 |
| Manufacturing | 1 | 1 | 187 | 0 | 189 |
| Transportation & Public Utilities | 0 | 0 | 96 | 0 | 96 |
| Wholesale Trade | 0 | 0 | 139 | 0 | 139 |
| Retail Trade | 0 | 0 | 468 | 0 | 468 |
| Finance, Insurance, & Real Estate | 1 | 0 | 174 | 0 | 175 |
| Services | 199 | 329 | 1,045 | 0 | 1,573 |
| Public Administration | 40 | 84 | 0 | 0 | 124 |
| Nonclassifiable Entities | 0 | 0 | 0 | 0 | 0 |
| Industry Unknown | 0 | 0 | 0 | 3 | 3 |
| Total | 261 | 414 | 2,287 | 3 | 2,965 |

As shown in Table 15-B, within the service industries, the largest number of 2004 graduates were employed in educational services with 169 working in state government and 307 in local government. (School district employment appears as local government employment in this table.) In private sector service industries, 462 graduates were employed in health services, far exceeding employment in any of the other service industries.

Table 15-B

North Dakota University System Academic Year 2004 Graduates Employed in North Dakota One Year After Graduation in Service Industries Only by Service Industry and Sector of Employment

| | | Employn | nent Sector | | |
|--------------------------------------|------------|------------|-------------|---------|-------|
| | State | Local | | Sector | |
| Service Industry | Government | Government | Private | Unknown | Total |
| Business Services | 2 | 0 | 114 | 0 | 116 |
| Auto Repair, Services, & Maintenance | 0 | 0 | 23 | 0 | 23 |
| Amusement & Recreation Services | 2 | 16 | 14 | 0 | 32 |
| Health Services | 2 | 3 | 462 | 0 | 467 |
| Legal Services | 0 | 0 | 30 | 0 | 30 |
| Educational Services | 169 | 307 | 8 | 0 | 484 |
| Social Services | 24 | 3 | 70 | 0 | 97 |
| Professional & Management Services | 0 | 0 | 214 | 0 | 214 |
| Other Service Industries | 0 | 0 | 110 | 0 | 110 |
| Total | 199 | 329 | 1,045 | 0 | 1,573 |

Table 16-A and Table 16-B summarize employment by degree level and industry of employment one year after graduation. Of the 2004 graduates who remained in the state, 1,573 (or 53.1 percent) worked in service industries, and 468 were employed in retail trade.

Table 16-A

North Dakota University System Academic Year 2004 Graduates Employed in North Dakota One Year After Graduation by Degree Level and Industry of Employment

| | | | Nortl | n Ame | rican l | Indus | try Cla | assifica | tion Sy | stem (| NAICS | 5) | |
|-------------------------|----------------------------------|--------|--------------|---------------|-----------------------------------|-----------------|--------------|--------------------------------------|---------------------------------|-----------------------|------------------------------|------------------|-------|
| Degree Level | Agriculture, Forestry, & Fishing | Mining | Construction | Manufacturing | Transportation & Public Utilities | Wholesale Trade | Retail Trade | Finance, Insurance, & Real Estate | Services (see 16-B for details) | Public Administration | Non-classifiable Entities | Industry Unknown | Total |
| One & Two-Year Programs | | | • • | | | _ | • • | | 0.0 | | | | • 4.0 |
| Certificate | 2 | 1 | 28 | 26 | 8 | 2 | 30 | 4 | 88 | 29 | 0 | 0 | 218 |
| Diploma | 2 | 3 | 2 | 10 | 2 | 8 | 10 | 0 | 5 | 0 | 0 | 0 | 42 |
| Associates | 2 | 17 | 70 | 59 | 41 | 64 | 214 | 37 | 388 | 28 | 0 | 1 | 921 |
| Four-Year Programs | 0 | 0 | 50 | 00 | 40 | 60 | 100 | 107 | 0.40 | | 0 | _ | 1 402 |
| Bachelors | 8 | 8 | 53 | 89 | 40 | 60 | 199 | 127 | 840 | 57 | 0 | 2 | 1,483 |
| Graduate Programs | | | _ | _ | _ | _ | | _ | | | | | |
| Masters | 0 | 1 | 1 | 3 | 5 | 5 | 4 | 6 | 191 | 4 | 0 | 0 | 220 |
| Doctorate | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 21 | 0 | 0 | 0 | 24 |
| Professional Programs | | | | | | | | | | | | | |
| Professional | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 1 | 40 | 6 | 0 | 0 | 57 |
| Total | 14 | 30 | 154 | 189 | 96 | 139 | 468 | 175 | 1,573 | 124 | 0 | 3 | 2,965 |

As shown in Table 16-B, within the service industries, the largest number of one and two-year program graduates were employed in health services (226 graduates). A large number of four-year program graduates were employed in two service industries: 297 in educational services and 187 in health services. One hundred seventeen (or 61.3 percent) of master's program graduates were employed in educational services, and 17 of the professional program graduates (or 42.5 percent) were employed in legal services. The total of 484 graduates employed in educational services and 467 graduates employed in health services account for 60.5 percent of the 1,573 graduates employed in service industries.

Table 16-B

North Dakota University System Academic Year 2004 Graduates Employed in North Dakota One Year After Graduation in Service Industries Only by Degree Level and Service Industry

| | | Service Industry | | | | | | | | | |
|-------------------------|-------------------|--|---------------------------------|-----------------|----------------|-------------------------|-----------------|------------------------------------|-----------------------------|-------|--|
| Degree Level | Business Services | Auto Repair, Services, & Maintenance | Amusement & Recreation Services | Health Services | Legal Services | Educational Services | Social Services | Professional & Management Services | Other Service Industries | Total | |
| One & Two-Year Programs | | | | | | | | | | | |
| Certificate | 10 | 2 | 2 | 46 | 1 | 13 | 5 | 4 | 5 | 88 | |
| Diploma | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | |
| Associates | 47 | 9 | 8 | 180 | 2 | 40 | 29 | 38 | 35 | 388 | |
| Four-Year Programs | | | | | | | | | | | |
| Bachelors | 53 | 7 | 20 | 187 | 10 | 297 | 49 | 158 | 59 | 840 | |
| Graduate Programs | | | | | | | | | | | |
| Masters | 5 | 0 | 0 | 36 | 0 | 117 | 12 | 12 | 9 | 191 | |
| Doctorate | 0 | 0 | 1 | 5 | 0 | 13 | 1 | 1 | 0 | 21 | |
| Professional Programs | | | | | | | | | | | |
| Professional | 1 | 0 | 1 | 13 | 17 | 4 | 1 | 1 | 2 | 40 | |
| Total | 116 | 23 | 32 | 467 | 30 | 484 | 97 | 214 | 110 | 1,573 | |

Table 17-A shows the relationship between area of study and industry of employment for 2004 graduates employed in North Dakota one year after graduation. The table shows, for example, that only three of the 89 agriculture and natural resources graduates were employed in the agriculture, forestry and fishing industries. Thirty-one of the 89 were employed in services, and 23 were employed in wholesale trades. (Information about self-employed farmers is not included in the databases available to FINDET.) This data strongly illustrates that graduates find employment in a wide range of industries.

Table 17-A

North Dakota University System Academic Year 2004 Graduates Employed in North Dakota One Year After Graduation by Area of Study and Industry of Employment

| | North American Industry Classification System (NAICS) | | | | | | | | | | | | |
|--|---|--------|--------------|---------------|--------------------------------------|-----------------|--------------|------------------------------------|----------|---------------|------------------|-------|--|
| | | No | orth A | merica | n Indu | stry C | Classifi | cation | System | (NAI | CS) | | |
| Area of Study | Agriculture, Forestry & Fishing | Mining | Construction | Manufacturing | Transportation & Public Utilities | Wholesale Trade | Retail Trade | Finance, Insurance, Real Estate | Services | Public Admin. | Industry Unknown | Total | |
| Agriculture & Natural Resources | 3 | 3 | 4 | 5 | 4 | 23 | 10 | 3 | 31 | 3 | 0 | 89 | |
| Airway Sciences | 0 | 0 | 1 | 1 | 3 | 1 | 4 | 1 | 26 | 0 | 0 | 37 | |
| Allied Health | 0 | 0 | 1 | 7 | 0 | 1 | 19 | 1 | 166 | 2 | 0 | 197 | |
| Architecture, Professional & Related | 1 | 8 | 71 | 50 | 23 | 12 | 23 | 2 | 91 | 5 | 0 | 286 | |
| Arts & Communications | 0 | 0 | 0 | 11 | 3 | 1 | 32 | 6 | 41 | 2 | 1 | 97 | |
| Biological, Life & Physical Sciences | 0 | 0 | 2 | 5 | 2 | 3 | 4 | 2 | 40 | 3 | 0 | 61 | |
| Business Administrative Support | 1 | 0 | 1 | 4 | 1 | 0 | 11 | 6 | 39 | 6 | 0 | 69 | |
| Business & Management | 1 | 1 | 19 | 34 | 26 | 36 | 95 | 100 | 182 | 14 | 2 | 510 | |
| Construction, Electronics & Mechanics | 4 | 13 | 35 | 39 | 11 | 40 | 31 | 0 | 25 | 0 | 0 | 198 | |
| Family & Consumer Sciences, Fitness | 0 | 0 | 3 | 1 | 0 | 0 | 9 | 5 | 40 | 1 | 0 | 59 | |
| Health Sciences | 0 | 0 | 1 | 0 | 3 | 0 | 44 | 4 | 222 | 5 | 0 | 279 | |
| Humanities & Social Sciences | 3 | 1 | 3 | 8 | 3 | 6 | 30 | 16 | 121 | 14 | 0 | 205 | |
| Interdisciplinary & General Studies | 0 | 2 | 8 | 16 | 12 | 11 | 100 | 16 | 142 | 15 | 0 | 322 | |
| Law & Related | 0 | 2 | 3 | 1 | 1 | 0 | 19 | 6 | 51 | 50 | 0 | 133 | |
| Mathematics & Computer Science | 0 | 0 | 0 | 5 | 2 | 3 | 13 | 2 | 45 | 2 | 0 | 72 | |
| Teacher Education & Related | 1 | 0 | 2 | 2 | 2 | 2 | 24 | 5 | 311 | 2 | 0 | 351 | |
| Area of Study Unknown | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Total | 14 | 30 | 154 | 189 | 96 | 139 | 468 | 175 | 1,573 | 124 | 3 | 2,965 | |

Table 17-B provides details of employment for 2004 graduates by area of study within the service industries. The largest numbers of graduates working in particular service industries include 274 graduates of teacher education and related areas of study working in educational services, 180 health sciences graduates working in health services and 140 allied health graduates working in health services. Overall, service industries attract graduates from a wide range of academic study areas.

Table 17-B North Dakota University System Academic Year 2004 Graduates Employed in North Dakota One Year After Graduation in Service Industries Only by Area of Study and Service Industry of Employment

| | Service Industry | | | | | | | | | | | | |
|--|-------------------|--|------------------------------------|-----------------|----------------|----------------------|-----------------|------------------------------------|-----------------------------|-------|--|--|--|
| Area of Study | Business Services | Auto Repair, Services, & Maintenance | Amusement & Recreation Services | Health Services | Legal Services | Educational Services | Social Services | Professional & Management Services | Other Service Industries | Total | | | |
| Agriculture & Natural | 2 | 0 | 2 | 2 | 0 | 15 | 0 | 9 | 1 | 31 | | | |
| Resources | | | | | | | | | | | | | |
| Airway Sciences | 0 | 0 | 0 | 0 | 0 | 25 | 0 | 1 | 0 | 26 | | | |
| Allied Health | 3 | 0 | 3 | 140 | 1 | 3 | 12 | 0 | 4 | 166 | | | |
| Architecture, Professional & Related | 15 | 1 | 1 | 1 | 0 | 8 | 2 | 58 | 5 | 91 | | | |
| Arts & Communications | 9 | 1 | 2 | 5 | 1 | 6 | 3 | 10 | 4 | 41 | | | |
| Biological, Life & Physical Sciences | 3 | 0 | 2 | 11 | 0 | 11 | 0 | 7 | 6 | 40 | | | |
| Business Administrative Support | 13 | 1 | 0 | 13 | 0 | 4 | 1 | 5 | 2 | 39 | | | |
| Business & Management | 26 | 2 | 4 | 15 | 6 | 29 | 6 | 65 | 29 | 182 | | | |
| Construction, Electronics & Mechanics | 4 | 13 | 1 | 0 | 0 | 4 | 0 | 1 | 2 | 25 | | | |
| Family & Consumer Sciences, Fitness | 2 | 1 | 1 | 16 | 0 | 7 | 9 | 0 | 4 | 40 | | | |
| Health Sciences | 2 | 0 | 2 | 180 | 0 | 12 | 4 | 11 | 11 | 222 | | | |
| Humanities & Social Sciences | 6 | 1 | 5 | 24 | 2 | 39 | 23 | 11 | 10 | 121 | | | |
| Interdisciplinary & General Studies | 18 | 1 | 5 | 42 | 3 | 30 | 9 | 14 | 20 | 142 | | | |
| Law & Related | 4 | 1 | 1 | 5 | 17 | 5 | 12 | 2 | 4 | 51 | | | |
| Mathematics & Computer Science | 6 | 0 | 1 | 8 | 0 | 12 | 1 | 15 | 2 | 45 | | | |
| Teacher Education & Related | 3 | 1 | 2 | 5 | 0 | 274 | 15 | 5 | 6 | 311 | | | |
| Area of Study Unknown | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Total | 116 | 23 | 32 | 467 | 30 | 484 | 97 | 214 | 110 | 1,573 | | | |

Table 18 provides median monthly wage information about 2004 graduates employed in North Dakota one year after graduation. System graduates' median wage of \$2,339 per month compares favorably to \$2,447 per month for all North Dakota wage earners, especially since these graduates are in the early phase of their careers. At \$2,543 per month, the median wage of male graduates is higher than the \$2,152 per month median wage of female graduates. Although a larger percentage of males (89.5 percent) were employed full-time compared to females (85.7 percent), a greater percentage of females (50.4 percent) were employed in North Dakota compared to males (43.1 percent).

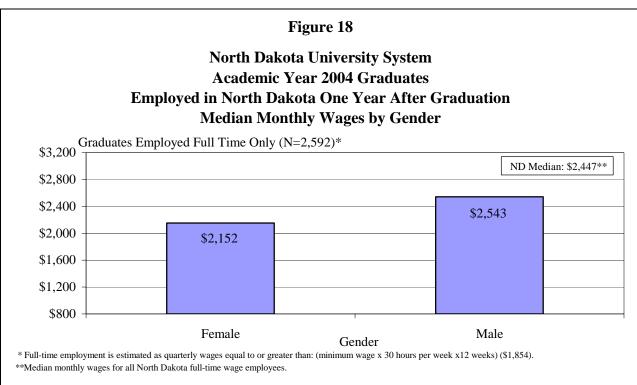
Table 18 North Dakota University System Academic Year 2004 Graduates Employed in North Dakota One Year After Graduation Median Monthly Wages by Gender

| | | | Percent | Employed | Percent | Median |
|--------|-----------------|-----------------|--------------|---------------------------|---------------|----------------|
| | | Employed in | Employed in | Full-Time | Full-Time | Monthly Wages |
| Gender | Graduates | North Dakota 1/ | North Dakota | (estimated) ^{2/} | (of employed) | (of full-time) |
| Female | 3,197 | 1,610 | 50.4% | 1,379 | 85.7% | \$2,152 |
| Male | 3,142 | 1,355 | 43.1% | 1,213 | 89.5% | \$2,543 |
| Total | 6,339 3/ | 2,965 | 46.8% | 2,592 | 87.4% | \$2,339 |
| | | | All ND Wage | Employees | 90.70/ | \$2.447 |

All ND Wage Employees

80.7% \$2,447

3/ Excludes 40 graduates for whom invalid Social Security Number were reported.



^{1/} Does not account for graduates who were in North Dakota but employed in jobs not covered by unemployment insurance.

^{2/} Full-time employment is estimated as quarterly wages equal to or greater than: (minimum wage x 30 hours per week x 12 weeks) (\$1,854).

Table 19 describes monthly wages by race/ethnicity for 2004 graduates employed in North Dakota one year after graduation. The median monthly wage of Asian/Pacific Islanders was the highest (\$3,303) followed by that of Hispanics (\$2,519). When compared by race/ethnicity, American Indian/Alaskan graduates were employed in North Dakota at the highest rate (61.7 percent).

Table 19

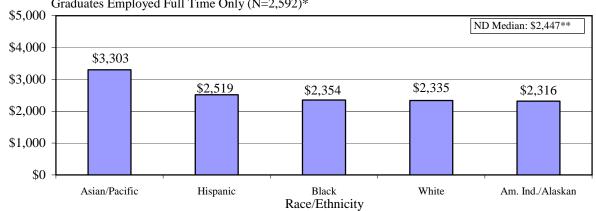
North Dakota University System Academic Year 2004 Graduates Employed in North Dakota One Year After Graduation Median Monthly Wages by Race/Ethnicity

| | | | Percentage | Employed | Percentage | Median |
|------------------------|--------------------|-----------------|--------------|---------------------------|------------------|----------------|
| | | Employed in | Employed in | Full-Time | Full-Time | Monthly Wages |
| Race | Graduates | North Dakota 1/ | North Dakota | (estimated) ^{2/} | (of employed) | (of full-time) |
| Amer. Indian/Alaskan | 133 | 82 | 61.7% | 67 | 81.7% | \$2,316 |
| Asian/Pacific Islander | 138 | 24 | 17.4% | 21 | 87.5% | \$3,303 |
| Black | 52 | 14 | 26.9% | 9 | 64.3% | \$2,354 |
| Hispanic | 42 | 14 | 33.3% | 12 | 85.7% | \$2,519 |
| White | 5,893 | 2,803 | 47.6% | 2,456 | 87.6% | \$2,335 |
| Other | 0 | 0 | 0.0% | 0 | 0.0% | |
| Race Unknown | 81 | 28 | 34.6% | 27 | 96.4% | \$2,524 |
| Total | 6,339 ³ | 2,965 | 46.8% | 2,592 | 87.4% | \$2,339 |

All ND Wage Employees

80.7% \$2,447

Figure 19 North Dakota University System Academic Year 2004 Graduates Employed in North Dakota One Year After Graduation Median Monthly Wages by Race/Ethnicity Graduates Employed Full Time Only (N=2,592)* | NO. |



^{*} Full-time employment is estimated as quarterly wages equal to or greater than: (minimum wage x 30 hours per week x 12 weeks) (\$1,854).

^{1/} Does not account for graduates who were in North Dakota but employed in jobs not covered by unemployment insurance.

^{2/} Full-time employment is estimated as quarterly wages equal to or greater than: (minimum wage x 30 hours per week x 12 weeks) (\$1,854).

^{3/} Excludes 40 graduates for whom invalid Social Security Numbers were reported.

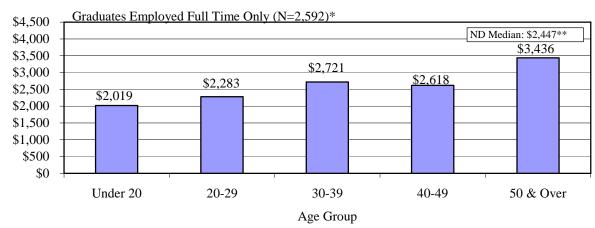
^{**} Median monthly wages for all North Dakota full-time wage employees.

Table 20 describes median monthly wages of 2004 graduates employed in North Dakota one year after graduation by age group. The median monthly wage was highest for the 50 and over age group (\$3,436 per month.) Graduates in older age groups were more likely to be returning to a profession following graduation than starting a profession. This may explain higher wages in older age groups.

Table 20 North Dakota University System **Academic Year 2004 Graduates Employed in North Dakota One Year After Graduation** Median Monthly Wages by Age Group

| | | | Percentage | Employed | Percentage | Median |
|-------------|-----------|-----------------|--------------|---------------------------|---------------|----------------|
| | | Employed in | Employed in | Full-Time | Full-Time | Monthly Wages |
| Age Group | Graduates | North Dakota 1/ | North Dakota | (estimated) ^{2/} | (of employed) | (of full-time) |
| Under 20 | 164 | 99 | 60.4% | 79 | 79.8% | \$2,019 |
| 20-29 | 5,142 | 2,323 | 45.2% | 2,020 | 87.0% | \$2,283 |
| 30-39 | 612 | 309 | 50.5% | 280 | 90.6% | \$2,721 |
| 40-49 | 312 | 171 | 54.8% | 153 | 89.5% | \$2,618 |
| 50 & Over | 107 | 63 | 58.9% | 60 | 95.2% | \$3,436 |
| Age Unknown | 2 | 0 | 0.0% | 0 | 0.0% | \$0 |
| Total | 6,339 3/ | 2,965 | 46.8% | 2,592 | 87.4% | \$2,339 |
| | | 80.7% | \$2,447 | | | |

Figure 20 North Dakota University System **Academic Year 2004 Graduates Employed in North Dakota One Year After Graduation Median Monthly Wages by Age Group**



^{*} Full-time employment is estimated as quarterly wage equal to or greater than: (minimum wage x 30 hours per week x 12 weeks) (\$1,854)

^{1/} Does not account for graduates who were in North Dakota but employed in jobs not covered by unemployment insurance.

^{2/} Full-time employment is estimated as quarterly wages equal to or greater than: (minimum wage x 30 hours per week x 12 weeks) (\$1,854).

^{3/} Excludes 40 graduates for whom invalid Social Security Numbers were reported.

^{**} Median monthly wages for all North Dakota full-time wage employees.

Table 21 and Figure 21 show the direct relationship between degree level and median monthly wages: as degree level increases so do wages. The median monthly wage for associate degree graduates is \$1,937 compared to \$2,348 for bachelor's degree graduates, \$3,733 for master's degree graduates, \$4,772 for doctoral degree graduates and \$5,007 for professional program graduates. Within one and two-year degree programs, in comparison to associate degree graduates, diploma graduates were more likely to be employed full-time (92.9 percent versus 81.4 percent) and to earn a higher median monthly income (\$2,352 versus \$1,937). A bachelor degree program graduate's average monthly salary of \$2,348 is near the North Dakota median monthly wage of \$2,447 for all employees. Table 21 reinforces the assumption that education pays.

Table 21

North Dakota University System Academic Year 2004 Graduates Employed in North Dakota One Year After Graduation Median Monthly Wages by Degree Level

| | - | | | | | | |
|------------------------------------|-----------------|-----------------|--------------|---------------------------|---------------|----------------|--|
| | | | Percentage | Employed | Percentage | Median | |
| | | Employed in | Employed in | Full-Time | Full-Time | Monthly Wages | |
| Degree Level | Graduates | North Dakota 1/ | North Dakota | (estimated) ^{2/} | (of employed) | (of full-time) | |
| One & Two-Year | | | | | | | |
| Programs | | | | | | | |
| Certificate | 394 | 218 | 55.3% | 188 | 86.2% | \$2,125 | |
| Diploma | 77 | 42 | 54.5% | 39 | 92.9% | \$2,352 | |
| Associates | 1,516 | 921 | 60.8% | 750 | 81.4% | \$1,937 | |
| Four-Year Programs | | | | | | | |
| Bachelors | 3,539 | 1,483 | 41.9% | 1,328 | 89.5% | \$2,348 | |
| Graduate Programs | | | | | | | |
| Masters | 562 | 220 | 39.1% | 208 | 94.5% | \$3,733 | |
| Doctorate | 69 | 24 | 34.8% | 22 | 91.7% | \$4,772 | |
| Professional | | | | | | | |
| Programs | | | | | | | |
| Professional | 182 | 57 | 31.3% | 57 | 100.0% | \$5,007 | |
| Total | 6,339 3/ | 2,965 | 46.8% | 2,592 | 87.4% | \$2,339 | |
| | | | | _ | 00= | 1 **** | |
| All ND Wage Employees 80.7% \$2,44 | | | | | | | |

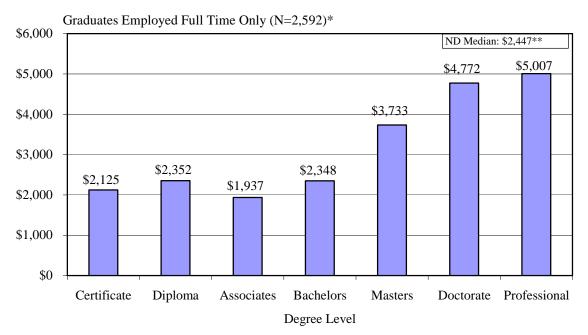
^{1/} Does not account for graduates who were in North Dakota but employed in jobs not covered by unemployment insurance.

^{2/} Full-time employment is estimated as quarterly wages equal to or greater than: (minimum wage x 30 hours per week x 12 weeks) (\$1,854).

^{3/} Excludes 40 graduates for whom invalid Social Security Numbers were reported.



North Dakota University System Academic Year 2004 Graduates Employed in North Dakota One Year After Graduation Median Monthly Wages by Degree Level



^{*} Full-time employment is estimated as quarterly wages equal to or greater than: (minimum wage x 30 hours per week x 12 weeks) (\$1,854)

^{**} Median monthly wages for all ND full-time wage employees.

Table 22 and Figure 22 provide information about median monthly wages by area of study for 2004 graduates one year after graduation. Graduates in health sciences earn the highest median monthly wage of \$3,515 followed by \$3,076 per month for graduates in architecture, engineering and related fields.

Table 22

North Dakota University System Academic Year 2004 Graduates Employed in North Dakota One Year After Graduation Median Monthly Wages by Area of Study

| | | | Percentage | Employed | Percentage | Median | |
|---|-----------|-----------------|--------------|-----------|------------|----------------|--|
| | | Employed in | Employed in | Full-Time | Full-Time | Monthly Wages | |
| Area of Study | Graduates | North Dakota 1/ | North Dakota | | | (of full-time) | |
| Agriculture & Natural Resources | 247 | 89 | 36.0% | 76 | 85.4% | \$2,398 | |
| Airway Sciences | 221 | 37 | 16.7% | 34 | 91.9% | \$1,889 | |
| Allied Health | 287 | 197 | 68.6% | 165 | 83.8% | \$1,964 | |
| Architecture, Engineering & Related | 784 | 286 | 36.5% | 271 | 94.8% | \$3,076 | |
| Arts & Communications | 217 | 97 | 44.7% | 84 | 86.6% | \$1,944 | |
| Biological, Life & Physical Sciences | 243 | 61 | 25.1% | 50 | 82.0% | \$2,167 | |
| Business Administrative Support | 100 | 69 | 69.0% | 60 | 87.0% | \$1,758 | |
| Business & Management | 919 | 510 | 55.5% | 470 | 92.2% | \$2,312 | |
| Construction, Electronics & Mechanics | 324 | 198 | 61.1% | 183 | 92.4% | \$2,491 | |
| Family & Consumer Sciences, Fitness | 175 | 59 | 33.7% | 53 | 89.8% | \$1,918 | |
| Health Sciences | 715 | 279 | 39.0% | 241 | 86.4% | \$3,515 | |
| Humanities & Social Sciences | 477 | 205 | 43.0% | 163 | 79.5% | \$2,008 | |
| Interdisciplinary & General Studies | 621 | 322 | 51.9% | 222 | 68.9% | \$1,697 | |
| Law & Related | 229 | 133 | 58.1% | 122 | 91.7% | \$2,438 | |
| Mathematics & Computer Science | 156 | 72 | 46.2% | 70 | 97.2% | \$2,692 | |
| Teacher Education & Related | 624 | 351 | 56.3% | 328 | 93.4% | \$2,520 | |
| Area of Study Unknown | 0 | 0 | 0.0% | 0 | 0.0% | \$0 | |
| Total | 6,339 3/ | 2,965 | 46.8% | 2,592 | 87.4% | \$2,339 | |
| | | | | | | | |

All ND Wage Employees

80.7% \$2,447

^{1/} Does not account for graduates who were in North Dakota but employed in jobs not covered by unemployment insurance.

^{2/} Full-time employment is estimated as quarterly wages equal to or greater than: (minimum wage x 30 hours per week x 12 weeks) (\$1,854).

^{3/} Excludes 40 graduates for whom invalid Social Security Numbers were reported.

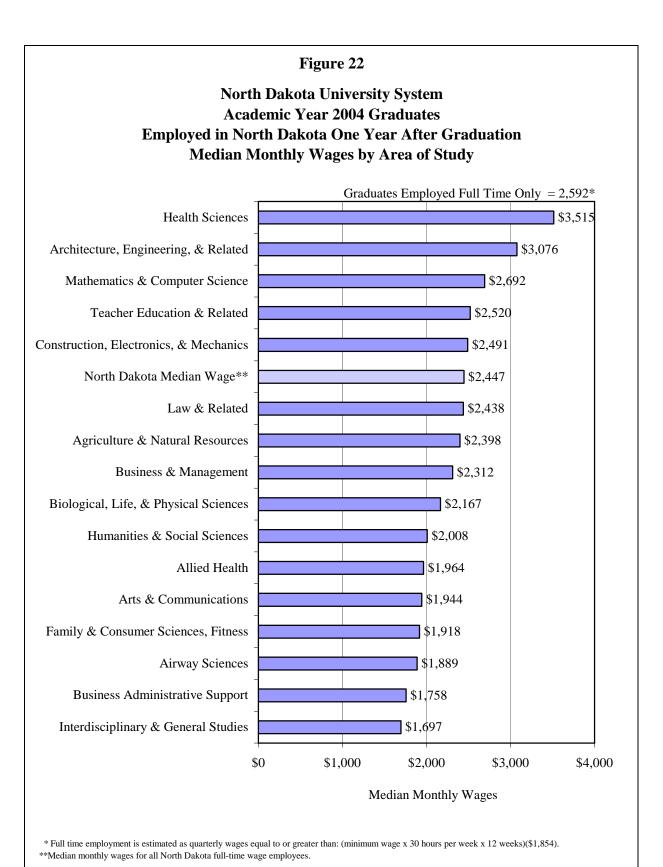


Table 23-A and Figure 23-A compare, by industry of employment, the median monthly wages of 2004 graduates employed in North Dakota one year after graduation. Graduates employed in mining earned \$4,049, the highest median monthly wage; those employed in manufacturing earned \$2,926, the second highest monthly median.

Table 23-A **North Dakota University System Academic Year 2004 Graduates**

Employed in North Dakota One Year After Graduation Median Monthly Wages by Industry of Employment

| North American Industry Classification System (NAICS) | Employed Graduates | Employed Full-Time (estimated) 1/ | Percentage Full-Time (of employed) | Median Monthly Wages (of full-time) |
|--|-----------------------|---|--|---|
| Agriculture, Forestry & Fishing | 14 | 11 | 78.6% | \$2,336 |
| Mining | 30 | 25 | 83.3% | \$4,049 |
| Construction | 154 | 140 | 90.9% | \$2,410 |
| Manufacturing | 189 | 179 | 94.7% | \$2,926 |
| Transportation & Public Utilities | 96 | 92 | 95.8% | \$2,580 |
| Wholesale Trade | 139 | 127 | 91.4% | \$2,634 |
| Retail Trade | 468 | 358 | 76.5% | \$1,641 |
| Finance, Insurance & Real Estate | 175 | 164 | 93.7% | \$2,097 |
| Services | 1,573 | 1,374 | 87.3% | \$2,424 |
| Public Administration | 124 | 119 | 96.0% | \$2,560 |
| Nonclassifiable Entities | 0 | _ | | \$0 |
| Industry Unknown | 3 | 3 | 100.0% | \$2,263 |
| Total | 2,965 | 2,592 | 87.4% | \$2,339 |
| | All ND Wage I | Employees | 80.7% | \$2,447 |

1/ Full-time employment is estimated as quarterly wages equal to or greater than: (minimum wage x 30 hours per week x 12 weeks) (\$1,854).

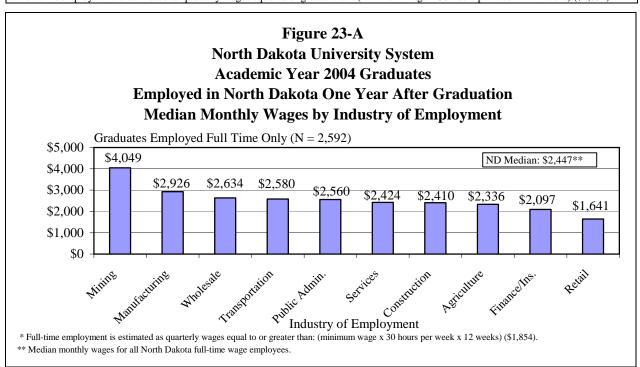


Table 23-B and Figure 23-B show that within the service industries graduates in legal services earn the highest median monthly wage of \$3,239 followed by professional and management services employees at \$2,675.

Table 23-B North Dakota University System Academic Year 2004 Graduates Employed in North Dakota One Year After Graduation Median Monthly Wages by Service Industry of Employment

| Service Industry | Employed Graduates | Employed Full-Time (estimated) 1/ | Percentage Full-Time (of employed) | Median Monthly Wages (of full-time) | |
|---|----------------------------|---|--|---|--|
| Business Services | 116 | 99 | 85.3% | \$1,972 | |
| Auto Repair, Services, & Maintenance | 23 | 21 | 91.3% | \$2,205 | |
| Amusement & Recreation Services | 32 | 16 | 50.0% | \$1,743 | |
| Health Services | 467 | 412 | 88.2% | \$2,503 | |
| Legal Services | 30 | 23 | 76.7% | \$3,239 | |
| Educational Services | 484 | 442 | 91.3% | \$2,528 | |
| Social Services | 97 | 84 | 86.6% | \$1,783 | |
| Professional & Management Services | 214 | 199 | 93.0% | \$2,675 | |
| Other Service Industries | 110 | 78 | 70.9% | \$2,259 | |
| Total | 1,573 | 1,374 | 87.3% | \$2,424 | |
| All ND Wage Employees 80.7% | | | | | |
| 1/Full-time employment is estimated as quarterly wages ea | qual to or greater than: (| minimum wage x 30 | hours per week x 12 | weeks) (\$1,854). | |

Figure 23-B North Dakota University System **Academic Year 2004 Graduates Employed in North Dakota One Year After Graduation Median Monthly Wages by Service Industry** Graduates Employed Full Time in Service Industries Only (N = 1,374)\$4,000 \$3,500 \$3,239 ND Median: \$2,447 \$2,675 \$3,000 \$2,503 \$2,528 \$2,500 \$2,205 \$1,972 \$1,783 \$1,743 \$2,000 \$1,500 \$1,000 \$500 \$0 AUIO Service Industry of Employment

* Full-time employment is estimated as quarterly wages equal to or greater than: (minimum wage x 30 hours per week x 12 weeks) (\$1,854)

** Median montly wages for all North Dakota full-time wage employees.

As shown in Table 24 and Figure 24, the overwhelming majority of 2004 graduates are employed in the private sector where they earn a median monthly wage of \$2,293. Graduates employed in local government earned a median monthly wage of \$2,524 and were most likely to be employed full-time.

North Dakota University System Academic Year 2004 Graduates Employed in North Dakota One Year After Graduation Median Monthly Wages by Sector of Employment

Table 24

| Employment Sector | Employed Graduates | Employed Full-Time (estimated) 1/ | Percentage Full-Time (of employed) | Median Monthly Wages (of full-time) |
|-------------------|-----------------------|---|--|---|
| State Government | 261 | 237 | 90.8% | \$2,490 |
| Local Government | 414 | 381 | 92.0% | \$2,524 |
| Private | 2,287 | 1,971 | 86.2% | \$2,293 |
| Sector Unknown | 3 | 3 | 100.0% | \$2,263 |
| Total | 2,965 | 2,592 | 87.4% | \$2,339 |
| | All ND Was | ge Employees | 80.7% | \$2,447 |

^{1/} Full-time employment is estimated as quarterly wages equal to or greater than: (minimum wage x 30 hours per week x 12 weeks) (\$1,854).

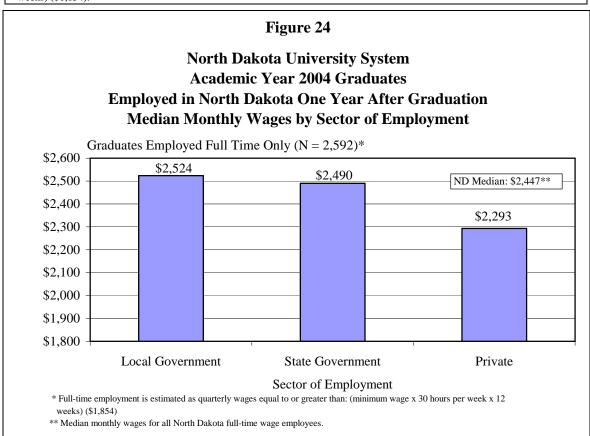


Table 25 provides information about median monthly wages of 2004 graduates employed full-time in North Dakota one year after graduation by area of study and degree level. Overall, this table shows a relatively clear relationship among area of study, degree level and income.

Table 25

North Dakota University System Academic Year 2004 Graduates Employed in North Dakota One Year After Graduation Median Monthly Wages of Graduates Employed Full-Time ^{1/} by Area of Study and Degree Level

| | One & T | One & Two-Year Programs | | | Graduate | Programs | | |
|---------------------------------------|-------------|-------------------------|------------|-----------|----------|-----------|--------------|---------|
| Area of Study | Certificate | Diploma | Associates | Bachelors | Masters | Doctorate | Professional | Total |
| Agriculture & Natural Resources | _ | _ | \$1,640 | \$2,512 | \$3,000 | _ | | \$2,398 |
| Airway Sciences | _ | _ | _ | \$1,793 | * | _ | _ | \$1,889 |
| Allied Health | \$1,484 | _ | \$2,056 | _ | _ | _ | _ | \$1,964 |
| Architecture, Professional & Related | \$2,773 | \$2,608 | \$2,674 | \$3,608 | \$5,326 | * | _ | \$3,076 |
| Arts & Communications | \$973 | _ | \$1,482 | \$2,230 | * | _ | _ | \$1,944 |
| Biological, Life & Physical Sciences | _ | _ | _ | \$1,992 | * | * | _ | \$2,167 |
| Business Administrative Support | \$1,679 | _ | \$1,758 | _ | _ | _ | _ | \$1,758 |
| Business & Management | \$1,677 | _ | \$1,729 | \$2,371 | \$4,167 | _ | _ | \$2,312 |
| Construction, Electronics & Mechanics | \$2,110 | \$2,314 | \$2,615 | _ | _ | _ | _ | \$2,491 |
| Family & Consumer Sciences, Fitness | * | _ | \$1,340 | \$2,241 | _ | _ | _ | \$1,918 |
| Health Sciences | \$3,265 | _ | \$1,841 | \$3,342 | \$4,109 | \$4,064 | \$6,955 | \$3,515 |
| Humanities & Social Sciences | * | _ | * | \$1,943 | \$2,904 | * | _ | \$2,008 |
| Interdisciplinary & General Studies | * | _ | \$1,480 | \$2,426 | _ | _ | _ | \$1,697 |
| Law & Related | \$2,474 | _ | \$1,584 | \$2,217 | * | _ | \$3,467 | \$2,438 |
| Mathematics & Computer Science | * | _ | \$1,719 | \$2,565 | \$3,563 | * | _ | \$2,692 |
| Teacher Education & Related | \$4,282 | _ | _ | \$2,155 | \$3,684 | \$5,134 | _ | \$2,520 |
| Area of Study Unknown | | | | _ | _ | _ | _ | _ |
| Total | \$2,125 | \$2,352 | \$1,937 | \$2,348 | \$3,733 | \$4,772 | \$5,007 | \$2,339 |

^{1/}Full- time employment is estimated as quarterly wages equal to or greater than: (minimum wage x 30 hours per week x 12 weeks) (\$1,854).

^{*} Median wages calculated on fewer than five cases.

⁻⁻⁻For purposes of confidentiality, the table does not provide information about area-of-study and degree-level combinations that include five or fewer graduates.

Table 26-A provides information about median monthly wages of 2004 graduates employed full-time in North Dakota one year after graduation by industry of employment and degree level.

Table 26-A

North Dakota University System Academic Year 2004 Graduates Employed in North Dakota One Year After Graduation Median Monthly Wages of Graduates Employed Full-Time ^{1/} by Industry of Employment and Degree Level

| North American Industry | One & T | Two-Year P | rograms | | Gr | aduate Prog | rams | |
|-----------------------------------|-------------|------------|------------|-----------|---------|-------------|--------------|---------|
| Classification System (NAICS) | Certificate | Diploma | Associates | Bachelors | Masters | Doctorate | Professional | Total |
| Agriculture, Forestry & Fishing | * | * | * | \$2,336 | _ | _ | _ | \$2,336 |
| Mining | * | * | \$3,875 | \$3,732 | * | _ | _ | \$4,049 |
| Construction | \$2,036 | * | \$2,407 | \$2,882 | * | _ | _ | \$2,410 |
| Manufacturing | \$2,729 | \$2,732 | \$2,637 | \$3,093 | * | * | _ | \$2,926 |
| Transportation & Public Utilities | \$2,663 | * | \$2,500 | \$2,231 | \$4,117 | _ | _ | \$2,580 |
| Wholesale Trade | * | \$2,419 | \$2,464 | \$3,000 | \$5,052 | _ | _ | \$2,634 |
| Retail Trade | \$1,456 | \$2,036 | \$1,381 | \$1,892 | * | _ | \$7,283 | \$1,641 |
| Finance, Insurance & Real Estate | * | _ | \$1,733 | \$2,141 | \$3,283 | _ | * | \$2,097 |
| Services | \$1,795 | * | \$1,888 | \$2,402 | \$3,644 | \$4,302 | \$4,127 | \$2,424 |
| Public Administration | \$2,564 | _ | \$2,084 | \$2,577 | * | _ | \$3,493 | \$2,560 |
| Nonclassifiable Entities | | _ | _ | _ | _ | _ | _ | _ |
| Industry Unknown | _ | _ | * | * | _ | _ | _ | \$2,263 |
| Total | \$2,125 | \$2,352 | \$1,937 | \$2,348 | \$3,733 | \$4,772 | \$5,007 | \$2,339 |

^{1/} Full- time employment is estimated as quarterly wages equal to or greater than: (minimum wage x 30 hours per week x 12 weeks) (\$1,854).

^{*} Median wages calculated on fewer than five cases.

⁻⁻⁻For purposes of confidentiality, the table does not provide information about area-of-study and degree-level combinations that include five or fewer graduates.

Table 26-B provides more detailed information about graduates within service industries.

Table 26-B

North Dakota University System Academic Year 2004 Graduates Employed in North Dakota One Year After Graduation in Service Industries Only Median Monthly Wages of Graduates Employed Full-Time ^{1/} by Industry of Employment and Degree Level

| | One & T | One & Two-Year Programs | | | Graduate Programs | | | |
|---------------------------------------|-------------|-------------------------|------------|-----------|-------------------|-----------|--------------|---------|
| Service Industry | Certificate | Diploma | Associates | Bachelors | Masters | Doctorate | Professional | Total |
| Business Services | \$1,612 | _ | \$1,711 | \$2,144 | * | | * | \$1,972 |
| Auto Repair, Services & Maintenance | * | * | \$2,239 | \$2,235 | _ | _ | _ | \$2,205 |
| Amusement & Recreation Services | * | _ | * | \$1,886 | _ | _ | * | \$1,743 |
| Health Services | \$1,642 | _ | \$1,984 | \$3,093 | \$4,188 | \$4,064 | \$6,767 | \$2,503 |
| Legal Services | _ | _ | * | * | _ | _ | \$3,400 | \$3,239 |
| Educational Services | \$3,182 | _ | \$1,674 | \$2,246 | \$3,541 | \$5,134 | * | \$2,528 |
| Social Services | * | _ | \$1,727 | \$1,767 | \$2,786 | * | * | \$1,783 |
| Professional & Management Services | * | _ | \$1,843 | \$2,726 | \$4,051 | * | * | \$2,675 |
| Other Service Industries | * | _ | \$1,767 | \$2,255 | \$4,463 | | * | \$2,259 |
| Total | \$1,795 | * | \$1,888 | \$2,402 | \$3,644 | \$4,302 | \$4,127 | \$2,424 |

^{1/}Full- time employment is estimated as quarterly wages equal to or greater than: (minimum wage x 30 hours per week x 12 weeks) (\$1,854).

^{*} Median wages calculated on fewer than five cases.

⁻⁻⁻For purposes of confidentiality, the table does not provide information about area-of-study and degree-level combinations that include five or fewer graduates.

APPENDIX A: CIP TABLES

APPENDIX A

Table A1 North Dakota University System Academic Year 2004 Graduates by Classification of Instructional Program (CIP) Area

| CIP Area Code | Classification of Instructional Program (CIP) Area | Graduates | Percentage of Total |
|---------------|--|-----------|------------------------|
| 01 | Agriculture, Agriculture Operations & Related Sciences | 226 | 3.5% |
| 03 | Natural Resources & Conservation | 23 | 0.4% |
| 04 | Architecture & Related Services | 59 | 0.9% |
| 05 | Area, Ethnic, Cultural & Gender Studies | 3 | 0.0% |
| 09 | Communication, Journalism & Related Programs | 126 | 2.0% |
| 10 | Communications Technologies/Technicians & Support Services | 2 | 0.0% |
| 11 | Computer & Information Sciences & Support Services | 116 | 1.8% |
| 12 | Personal & Culinary Services | 6 | 0.1% |
| 13 | Education | 628 | 9.8% |
| 14 | Engineering | 425 | 6.7% |
| 15 | Engineering Technologies/Technicians | 300 | 4.7% |
| 16 | Foreign Languages, Literatures & Linguistics | 24 | 0.4% |
| 19 | Family & Consumer Sciences/Human Sciences | 116 | 1.8% |
| 22 | Legal Professions & Studies | 62 | 1.0% |
| 23 | English Language & Literature/Letters | 66 | 1.0% |
| 24 | Liberal Arts & Sciences, General Studies & Humanities | 569 | 8.9% |
| 25 | Library Science | 0 | 0.0% |
| 26 | Biological & Biomedical Sciences | 182 | 2.9% |
| 27 | Mathematics & Statistics | 42 | 0.7% |
| 29 | Military Technologies | 0 | 0.0% |
| 30 | Multi/Interdisciplinary Studies | 57 | 0.9% |
| 31 | Parks, Recreation, Leisure & Fitness Studies | 53 | 0.8% |
| 38 | Philosophy & Religious Studies & Vocations | 4 | 0.1% |
| 40 | Physical Sciences | 62 | 1.0% |
| 41 | Science Technologies/Technicians | 0 | 0.0% |
| 42 | Psychology | 147 | 2.3% |
| 43 | Security & Protective Services | 168 | 2.6% |
| 44 | Public Administration & Social Service Professions | 58 | 0.9% |
| 45 | Social Sciences | 177 | 2.8% |
| 46 | Construction Trades | 62 | 1.0% |
| 47 | Mechanic & Repair Technologies/Technicians | 184 | 2.9% |
| 48 | Precision Production | 78 | 1.2% |
| 49 | Transportation & Materials Moving | 224 | 3.5% |
| 50 | Visual & Performing Arts | 91 | 1.4% |
| 51 | Health Professions & Related Clinical Sciences | 1,006 | 15.8% |
| 52 | Business, Management, Marketing & Related Support Services | 1,033 | 16.2% |
| | Subtotal | 6,379 | 100.0% |
| | CIP Area Unknown | 0 | 0.0% |
| | Total | 6,379 | 100.0% |

Table A2 provides detailed retention information.

Table A2 North Dakota University System Academic Year 2004 Graduates One Year After Graduation

by Classification of Instructional Program (CIP) Area

| | | Total | Retained | Employed in | | Re-enrolled in | | Both Employed in ND | |
|--|-----------|---------|-------------|-------------|--------------------|----------------|------------|---------------------|---------------|
| | | | h Dakota 1/ | | kota Only 2/ | NDUS Only 3/ | | & Re-enro | lled in NDUS |
| CIP Area | Graduates | Number | Percentage | Number | Percentage | Number | Percentage | Number | Percentage |
| Agriculture, Agriculture Operations, & Related Sciences | 224 | 101 | 45.1% | 67 | 29.9% | 20 | 8.9% | 14 | 6.3% |
| Natural Resources & Conservation | 23 | 12 | 52.2% | 6 | 26.1% | 4 | 17.4% | 2 | 8.7% |
| Architecture & Related Services | 59 | 20 | 33.9% | 19 | 32.2% | 0 | 0.0% | 1 | 1.7% |
| Area, Ethnic, Cultural, & Gender Studies | 3 | 2 | 66.7% | 1 | 33.3% | 1 | 33.3% | 0 | 0.0% |
| Communication, Journalism, & Related Programs | 125 | 52 | 41.6% | 41 | 32.8% | 0 | 0.0% | 11 | 8.8% |
| Communications Technologies/ Technicians & Support Services | 2 | 2 | 100.0% | 2 | 100.0% | 0 | 0.0% | 0 | 0.0% |
| Computer & Information Sciences & Support Services | 115 | 73 | 63.5% | 54 | 47.0% | 12 | 10.4% | 7 | 6.1% |
| Personal & Culinary Services | 6 | 5 | 83.3% | 4 | 66.7% | 1 | 16.7% | 0 | 0.0% |
| Education | 624 | 369 | 59.1% | 249 | 39.9% | 18 | 2.9% | 102 | 16.3% |
| Engineering | 425 | 137 | 32.2% | 106 | 24.9% | 22 | 5.2% | 9 | 2.1% |
| Engineering Technologies/Technicians | 300 | 164 | 54.7% | 138 | 46.0% | 13 | 4.3% | 13 | 4.3% |
| Foreign Languages, Literatures, & Linguistics | 24 | 9 | 37.5% | 3 | 12.5% | 2 | 8.3% | 4 | 16.7% |
| Family & Consumer Sciences/Human Sciences | 116 | 50 | 43.1% | 33 | 28.4% | 9 | 7.8% | 8 | 6.9% |
| Legal Professions & Studies | 62 | 28 | 45.2% | 26 | 41.9% | 0 | 0.0% | 2 | 3.2% |
| English Language & Literature/Letters | 66 | 34 | 51.5% | 20 | 30.3% | 5 | 7.6% | 9 | 13.6% |
| Liberal Arts & Sciences, General Studies, & Humanities | 564 | 374 | 66.3% | 174 | 30.9% | 78 | 13.8% | 122 | 21.6% |
| Library Science | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| Biological & Biomedical Sciences | 181 | 75 | 41.4% | 39 | 21.5% | 27 | 14.9% | 9 | 5.0% |
| Mathematics & Statistics | 41 | 15 | 36.6% | 6 | 14.6% | 4 | 9.8% | 5 | 12.2% |
| Military Technologies | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| Multi/Interdisciplinary Studies | 57 | 29 | 50.9% | 23 | 40.4% | 3 | 5.3% | 3 | 5.3% |
| Parks, Recreation, Leisure & Fitness Studies | 53 | 16 | 30.2% | 13 | 24.5% | 2 | 3.8% | 1 | 1.9% |
| Philosophy & Religious Studies & Vocations | 4 | 3 | 75.0% | 1 | 25.0% | 2 | 50.0% | 0 | 0.0% |
| Physical Sciences | 62 | 24 | 38.7% | 10 | 16.1% | 11 | 17.7% | 3 | 4.8% |
| Science Technologies/Technicians | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| Psychology | 147 | 73 | 49.7% | 43 | 29.3% | 13 | 8.8% | 17 | 11.6% |
| Security & Protective Services | 167 | 109 | 65.3% | 93 | 55.7% | 4 | 2.4% | 12 | 7.2% |
| Public Administration & Social Service Professions | 58 | 38 | 65.5% | 30 | 51.7% | 2 | 3.4% | 6 | 10.3% |
| Social Sciences | 175 | 91 | 52.0% | 53 | 30.3% | 20 | 11.4% | 18 | 10.3% |
| Construction Trades | 62 | 36 | 58.1% | 33 | 53.2% | 1 | 1.6% | 2 | 3.2% |
| Mechanic & Repair Technologies/Technicians | 184 | 117 | 63.6% | 110 | 59.8% | 2 | 1.1% | 5 | 2.7% |
| Precision Production | 78 | 53 | 67.9% | 36 | 46.2% | 5 | 6.4% | 12 | 15.4% |
| Transportation & Materials Moving | 221 | 40 | 18.1% | 33 | 14.9% | 3 | 1.4% | 4 | 1.8% |
| Visual & Performing Arts | 90 | 48 | 53.3% | 30 | 33.3% | 5 | 5.6% | 13 | 14.4% |
| Health Professions & Related Clinical Sciences | 1,002 | 604 | 60.3% | 362 | 36.1% | 128 | 12.8% | 114 | 11.4% |
| Business, Management, Marketing & Related Support Services | 1,019 | 624 | 61.2% | 501 | 49.2% | 45 | 4.4% | 78 | 7.7% |
| Program Area Unknown | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| Total | 6,339 4/ | 3,427 | 54.1% | 2,359 | 37.2% | 462 | 7.3% | 606 | 9.6% |
| | 0,007 | ~, •= , | ÷ 111 / U | _,00 | € 7 1 = 7 0 | .02 | / 0 | _ 550 | > • • · · · · |

^{1/} Does not account for graduates who were in North Dakota but unemployed, employed in jobs not covered by unemployment insurance, or attending private colleges.

^{2/} Total graduates employed in ND = "Employed in ND Only" + "Both Employed in ND and Re-enrolled in the NDUS."

^{3/} Total graduates re-enrolled in NDUS = "Re-enrolled in NDUS Only" + "Both Employed in ND and Re-enrolled in the NDUS."

^{4/} Excludes 40 graduates for whom invalid Social Security Numbers were reported.

Table A3 provides detailed CIP information by industry of employment.

Table A3 - North Dakota University System Academic Year 2004 Graduates Employed in North Dakota One Year After Graduation by Classification of Instructional Program (CIP) Area and Industry of Employment

| by Classification of | North American Industry Classification System (NAICS) | | | | | | | | | | | |
|---|---|--------|--------------|---------------|---|--------------------|-----------------|---|-----------|--------------------------|---------------------|-----------|
| | TYOTAL AMERICAN INGUSTRY CHASSIFICATION SYSTEM (TVATCS) | | | | | | | | | | | |
| CIP Area | Agriculture, Forestry, and Fishing | Mining | Construction | Manufacturing | Transportation and Public Utilities | Wholesale Trade | Retail Trade | Finance, Insurance, & Real Estate | Services | Public Administration | Industry Unknown | Total |
| Agriculture, Agriculture Operations & | 3 | 2 | 3 | 4 | 4 | 23 | 9 | 3 | 28 | 2 | 0 | 81 |
| Related Sciences Natural Resources & Conservation | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 3 | 1 | 0 | 8 |
| Architecture & Related Services | 0 | 0 | 1 | 0 | 1 | 0 | 3 | 1 | 14 | 0 | 0 | 20 |
| Area, Ethnic, Cultural & Gender | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| Studies | U | U | U | U | U | U | U | U | U | 1 | U | 1 |
| Communication, Journalism & Related Programs | 0 | 0 | 0 | 7 | 2 | 1 | 10 | 5 | 24 | 2 | 1 | 52 |
| Communications Technologies/ Technicians & Support Services | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Computer & Information Sciences & Support Services | 0 | 0 | 0 | 5 | 2 | 3 | 12 | 2 | 35 | 2 | 0 | 61 |
| Personal & Culinary Services | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 4 |
| Education | 1 | 0 | 2 | 2 | 2 | 2 | 24 | 5 | 311 | 2 | 0 | 351 |
| Engineering | 0 | 2 | 19 | 30 | 4 | 6 | 6 | 0 | 46 | 2 | 0 | 115 |
| Engineering Technologies/Technicians | 1 | 6 | 51 | 20 | 18 | 6 | 14 | 1 | 31 | 3 | 0 | 151 |
| Foreign Languages, Literatures & Linguistics Family & Consumer Sciences/Human | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 5 | 0 | 0 | 7 |
| Sciences | 0 | 0 | 1 | 0 | 0 | 0 | 6 | 4 | 30 | 0 | 0 | 41 |
| Legal Professions & Studies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22 | 6 | 0 | 28 |
| English Language & Literature/Letters | 0 | 0 | 0 | 2 | 1 | 1 | 8 | 3 | 14 | 0 | 0 | 29 |
| Liberal Arts & Sciences, General Studies & Humanities | 0 | 2 | 6 | 15 | 11 | 9 | 96 | 15 | 129 | 13 | 0 | 296 |
| Library Science | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Biological & Biomedical Sciences | 0 | 0 | 2 | 2 | 1 | 3 | 4 | 2 | 31 | 3 | 0 | 48 |
| Mathematics & Statistics | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 10 | 0 | 0 | 11 |
| Military Technologies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 26 |
| Multi/Interdisciplinary Studies Parks, Recreation, Leisure & Fitness | 0 | 0 | 2 | 1 | 1 | 2 | 4 | 1 | 13 | 2 | 0 | |
| Studies | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 1 | 8 | 1 | 0 | 14 |
| Philosophy & Religious Studies & Vocations | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Physical Sciences | 0 | 0 | 0 | 3 | 1 0 | 0 | 0 | 0 | 9 | 0 | 0 | 13 |
| Science Technologies/Technicians Psychology | 0 | 0 | 2 | 3 | 1 | 2 | 6 | 6 | 36 | 3 | 0 | 60 |
| Security & Protective Services | 0 | 2 | 3 | 1 | 1 | 0 | 19 | 6 | 29 | 44 | 0 | 105 |
| Public Administration & Social Service Professions | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 25 | 7 | 0 | 36 |
| Social Sciences | 2 | 0 | 1 | 3 | 1 | 3 | 11 | 6 | 41 | 3 | 0 | 71 |
| Construction Trades | 0 | 1 | 22 | 2 | 4 | 1 | 2 | 0 | 3 | 0 | 0 | 35 |
| Mechanic & Repair Technologies/Technicians | 3 | 10 | 7 | 13 | 4 | 35 | 25 | 0 | 18 | 0 | 0 | 115 |
| Precision Production | 1 | 2 | 6 | 24 | 3 | 4 | 4 | 0 | 4 | 0 | 0 | 48 |
| Transportation & Materials Moving | 0 | 0 | 1 | 1 | 3 | 1 | 4 | 1 | 26 | 0 | 0 | 37 |
| Visual & Performing Arts Health Professions & Related Clinical Sciences | 0 | 0 | 2 | 7 | 3 | 0 | 63 | 5 | 17 388 | 7 | 0 | 43 476 |
| Business, Management, Marketing & Related Support Services | 2 | 1 | 20 | 38 | 27 | 36 | 106 | 106 | 221 | 20 | 2 | 579 |
| Program Area Unknown | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 14 | 30 | 154 | 189 | 96 | 139 | 468 | 175 | 1,573 | | 3 | |
| Total | 14 | 30 | 154 | 193 | 90 | 139 | 408 | 1/5 | 1,5/3 | 124 | 3 | 2,965 |

Table A4 provides more specific information about employment in service industries.

Table A4 North Dakota University System Academic Year 2004 Graduates Employed in North Dakota One Year After Graduation in Service Industries

by Classification of Instructional Program (CIP) Area and Service Industry of Employment

| • | Service Industry | | | | | | | | | | |
|--|----------------------|--|---------------------------------|--------------------|-------------------|-------------------------|--------------------|--|--------------------------------|-----------|--|
| CIP Area | Business Services | Auto Repair, Services, & Maintenance | Amusement & Recreation Services | Health Services | Legal Services | Educational Services | Social Services | Professional & Management Services | Other Service Industries | Total | |
| Agriculture, Agriculture Operations & | 2 | 0 | 1 | 2 | 0 | 14 | 0 | 8 | 1 | 28 | |
| Related Sciences Natural Resources & Conservation | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 3 | |
| Architecture & Related Services | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 10 | 1 | 14 | |
| Area, Ethnic, Cultural & Gender | | | | | | | | | _ | | |
| Studies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 — | |
| Communication, Journalism & Related | 7 | 0 | 1 | 0 | 1 | _ | 1 | _ | 4 | 24 | |
| Programs | / | 0 | 1 | U | 1 | 5 | 1 | 5 | 4 | 24 | |
| Communications Technologies/ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Technicians & Support Services | U | U | U | U | U | U | U | U | U | U | |
| Computer & Information Sciences & | 5 | 0 | 0 | 7 | 0 | 8 | 0 | 13 | 2 | 35 | |
| Support Services | | | | | | | | | | | |
| Personal & Culinary Services | 0 | 0 | 0 | 2 5 | 0 | 0 274 | 0 15 | 0 | 0 | 2 | |
| Education | 3 | 1 0 | 2 | _ | 0 | - | 0 | 5 37 | 6 1 | 311 46 | |
| Engineering | 9 | 1 | 1 | 0 | 0 | 4 | 2 | 11 | 3 | 31 | |
| Engineering Technologies/Technicians Foreign Languages, Literatures & | 9 | | | 1 | | | | 11 | 3 | | |
| Linguistics | 1 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 5 | |
| Family & Consumer Sciences/Human | _ | | | 4.0 | | _ | | | | • | |
| Sciences | 2 | 1 | 0 | 10 | 0 | 5 | 8 | 0 | 4 | 30 | |
| Legal Professions & Studies | 0 | 0 | 1 | 0 | 17 | 1 | 1 | 0 | 2 | 22 | |
| English Language & Literature/Letters | 2 | 1 | 0 | 1 | 0 | 5 | 0 | 2 | 3 | 14 | |
| Liberal Arts & Sciences, General | 15 | 1 | 4 | 41 | 2 | 28 | 7 | 13 | 18 | 129 | |
| Studies & Humanities | | | | | | | | | | | |
| Library Science | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Biological & Biomedical Sciences | 3 | 0 | 1 | 8 | 0 | 8 | 0 | 6 | 5 | 31 | |
| Mathematics & Statistics | 1 | 0 | 1 | 1 | 0 | 4 | 1 | 2 | 0 | 10 | |
| Military Technologies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Multi/Interdisciplinary Studies | 3 | 0 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 13 | |
| Parks, Recreation, Leisure & Fitness Studies | 0 | 0 | 1 | 4 | 0 | 2 | 1 | 0 | 0 | 8 | |
| Philosophy & Religious Studies & Vocations | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Physical Sciences | 0 | 0 | 1 | 3 | 0 | 3 | 0 | 1 | 1 | 9 | |
| Science Technologies/Technicians | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Psychology Security & Protective Services | 2 4 | 0 | 1 | 10 5 | 0 | 11 4 | 8 11 | 1 2 | 3 2 | 36 29 | |
| Public Administration & Social | 4 | 1 | U | 3 | U | 4 | | | 2 | | |
| Service Professions | 0 | 0 | 1 | 8 | 0 | 4 | 11 | 0 | 1 | 25 | |
| Social Sciences | 1 | 0 | 3 | 3 | 2 | 17 | 4 | 8 | 3 | 41 | |
| Construction Trades | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 3 | |
| Mechanic & Repair | | | | | | | | | | | |
| Technologies/Technicians | 2 | 13 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 18 | |
| Precision Production | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 4 | |
| Transportation & Materials Moving | 0 | 0 | 0 | 0 | 0 | 25 | 0 | 1 | 0 | 26 | |
| Visual & Performing Arts | 2 | 1 | 1 | 5 | 0 | 1 | 2 | 5 | 0 | 17 | |
| Health Professions & Related Clinical Sciences | 5 | 0 | 5 | 320 | 1 | 15 | 16 | 11 | 15 | 388 | |
| Business, Management, Marketing & Related Support Services | 39 | 3 | 4 | 28 | 6 | 33 | 7 | 70 | 31 | 221 | |
| Program Area Unknown | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | | | | | | | | | | |

Table A5 provides employment and wage information for more detailed CIP categories.

Table A5 North Dakota University System

Status of Academic Year 2004 Graduates Employed in North Dakota One Year After Graduation Median Monthly Wages by Classification of Instructional Program (CIP) Area

| Wiedidii Wiolitiii | wages by Classificati | | | | tuin (CH) Hi cu | | | |
|---|-----------------------|-----------------|---------------------------|--------------------|-------------------------|-------------------------|--|--|
| CVP A | Conton | Employed in | Percentage Employed in | Employed Full-Time | Percentage Full-Time | Median Monthly Wages | | |
| CIP Area | Graduates | North Dakota 1/ | North Dakota | (estimated) 2/ | (of employed) | (of full-time) 4/ | | |
| Agriculture, Agriculture Operations & Related Sciences | 224 | 81 | 36.2% | 69 | 85.2% | \$2,510 | | |
| Natural Resources & Conservation | 23 | 8 | 34.8% | 7 | 87.5% | \$1,663 | | |
| Architecture & Related Services | 59 | 20 | 33.9% | 20 | 100.0% | \$2,584 | | |
| Area, Ethnic, Cultural & Gender Stud. | 3 | 1 | 33.3% | 1 | 100.0% | | | |
| Communication, Journalism & Related Programs | 125 | 52 | 41.6% | 45 | 86.5% | \$2,288 | | |
| Communication Technologies/ Technicians & Support Services | 2 | 2 | 100.0% | 2 | 100.0% | | | |
| Computer & Information Sciences & Support Services | 115 | 61 | 53.0% | 60 | 98.4% | \$2,654 | | |
| Personal & Culinary Services | 6 | 4 | 66.7% | 4 | 100.0% | | | |
| Education | 624 | 351 | 56.3% | 328 | 93.5% | \$2,520 | | |
| Engineering | 425 | 115 | 27.1% | 114 | 99.1% | \$3,842 | | |
| Engineering Technologies/Technicians | 300 | 151 | 50.3% | 137 | 90.7% | \$2,677 | | |
| Foreign Languages, Literatures & Linguistics | 24 | 7 | 29.2% | 6 | 85.7% | \$1,815 | | |
| Family & Consumer Sciences/Human Sciences | 116 | 41 | 35.3% | 37 | 90.2% | \$1,918 | | |
| Legal Professions & Studies | 62 | 28 | 45.2% | 28 | 100.0% | \$3,467 | | |
| English Language & Literature/Letters | 66 | 29 | 43.9% | 22 | 75.9% | \$1,766 | | |
| Liberal Arts & Sciences, General Studies & Humanities | 564 | 296 | 52.5% | 201 | 67.9% | \$1,669 | | |
| Library Science | 0 | 0 | 0.0% | 0 | 0.0% | | | |
| Biological & Biomedical Sciences | 181 | 48 | 26.5% | 39 | 81.3% | \$2,031 | | |
| Mathematics & Statistics | 41 | 11 | 26.8% | 10 | 90.9% | \$3,432 | | |
| Military Technologies | 0 | 0 | 0.0% | 0 | 0.0% | | | |
| Multi/Interdisciplinary Studies | 57 | 26 | 45.6% | 21 | 80.8% | \$1,904 | | |
| Parks, Recreation, Leisure & Fitness Studies | 53 | 14 | 26.4% | 12 | 85.7% | \$1,858 | | |
| Philosophy & Religious Studies & Vocations | 4 | 1 | 25.0% | 1 | 100.0% | | | |
| Physical Sciences | 62 | 13 | 21.0% | 11 | 84.6% | \$2,267 | | |
| Science Technologies/Technicians | 0 | 0 | 0.0% | 0 | 0.0% | | | |
| Psychology | 147 | 60 | 40.8% | 43 | 71.7% | \$2,027 | | |
| Security & Protective Services | 167 | 105 | 62.9% | 94 | 89.5% | \$2,251 | | |
| Public Administration & Social Service Professions | 58 | 36 | 62.1% | 32 | 88.9% | \$2,374 | | |
| Social Sciences | 175 | 71 | 40.6% | 58 | 81.7% | \$2,009 | | |
| Construction Trades | 62 | 35 | 56.5% | 33 | 94.3% | \$2,173 | | |
| Mechanic & Repair Technologies/Technicians | 184 | 115 | 62.5% | 107 | 93.0% | \$2,450 | | |
| Precision Production | 78 | 48 | 61.5% | 43 | 89.6% | \$2,720 | | |
| Transportation & Materials Moving | 221 | 37 | 16.7% | 34 | 91.9% | \$1,889 | | |
| Visual & Performing Arts | 90 | 43 | 47.8% | 37 | 86.1% | \$1,497 | | |
| Health Professions & Related Clinical Sciences | 1,002 | 476 | 47.5% | 406 | 85.3% | \$2,564 | | |
| Business, Management, Marketing & Related Support Services | 1,019 | 579 | 56.8% | 530 | 91.5% | \$2,250 | | |
| Program Area Unknown | 0 | 0 | 0.0% | 0 | 0.0% | | | |
| Total | 6,339 3/ | 2,965 | 46.8% | 2,592 | 87.4% | \$2,339 | | |
| | | | | e Employees | 80.7% | \$2,447 | | |
| I | | | 8 | r - J | | τ-, | | |

All ND Wage Employees

1/ Does not account for graduates who were in North Dakota but employed in jobs not covered by unemployment insurance.

^{2/} Full-time employment is estimated as quarterly wages equal to or greater than: (minimum wage x 30 hours per week x 12 weeks) (\$1,854). 3/ Excludes 40 graduates for whom invalid Social Security Numbers were reported.

^{4/} In the case where the number of graduates employed full-time is less than five, the median monthly wage is not shown.

APPENDIX B: METHODOLOGICAL NOTES

APPENDIX B

Appendix B provides important information for interpretation of the tables in this report. Appendix B describes how CIP categories were collapsed into academic areas of study. It also describes how detailed North American Industry Classification System (NAICS) categories were collapsed into the more general categories in the NAICS classifications. Information found in Appendix B is critical to an accurate interpretation of information included in the tables in this report. **Tables in this report should not be distributed without these methodological notes.**

Follow-up Cohort

The academic year 2004 graduate cohort, upon which this report is based, includes 6,379 students who were awarded degrees (including certificates and diplomas) from NDUS colleges and universities between July 1, 2003, and June 30, 2004. Graduate data were obtained from the North Dakota Higher Education Computing Network (HECN).

Fourteen people were awarded two degrees during the 2004 academic year. For the present analyses, each was counted only once by the higher degree awarded or by the most recent degree if both were of the same level.

Two majors were reported for 231 of the 6,379 graduates. The first major listed in each record was used in all tables describing the graduate's fields of study. In 102 of the 231 cases, both majors were identified by the same two-digit Classification of Instructional Program (CIP) code, indicating that the general areas of study were similar.

"Age of the Graduates" represents age (last birthday) at the time (month/year) the degree was awarded. "State of Residency" represents residency status as of the most recent NDUS enrollment period prior to the date the degree was awarded. "Area of Study" represents general categories derived by NDUS personnel from reported CIP codes. The reporting categories encompass the following CIP (2000 edition) code ranges.

Agriculture and Natural Resources

- Agriculture, Agriculture Operations, and Related Sciences (01.0101 01.9999)
- Natural Resources and Conservation (03.0101 03.9999)

Airway Sciences

■ Transportation and Materials Moving (49.0101 – 49.9999)

Allied Health

- Dental Services (51.0601 51.0699)
- Health and Medical Administrative Services (51.0701 51.0799)
- Health and Medical Assistants (51.0801 51.0806)
- Hematology Clinical/Medical Laboratory Technician (51.1003 51.1004)
- Psychiatric/Mental Health Services Technician (51.1502)
- Nursing (excluding R.N. and post-R.N. training) (51.1613 51.1699)
- Optical/Ophthalmic Technicians/Assistants/Technologists (51.1802 51.1803)

Architecture, Engineering, and Related

- Architecture and Related Services (04.0201 04.9999)
- Engineering (14.0101 14.9999)
- Engineering Technologies/Technicians (15.0101 15.9999)

Arts and Communication

- Communication, Journalism, and Related Programs (09.0101 09.9999)
- Communications Technologies/Technicians and Support Services (10.0105 10.9999)
- Visual and Performing Arts (50.0101 50.9999)

Biological, Life, and Physical Sciences

- Biological and Biomedical Sciences (26.0101 26.9999)
- Physical Sciences (40.0101 40.9999)

Business Administrative Support

- Office Management and Supervision (52.0204)
- Business Operations Support and Assistant Services (52.0401 52.0499)

Business and Management

Business, Management, Marketing, and Related Support Services (52.0101 – 52.0203; 52.0205 – 52.0399; 52.0501 – 52.9999)

Construction, Electronics, and Mechanics

- Science Technologies/Technicians (41.0101 41.9999)
- Construction Trades (46.0101 46.9999)
- Mechanic and Repair Technologies/Technicians (47.0101 47.9999)
- Precision Production (48.0101 48.9999)

Family and Consumer Sciences, Fitness Related

- Personal and Culinary Services (12.0301 12.9999)
- Family and Consumer Sciences/Human Sciences (19.0000 19.9999)
- Parks, Recreation, Leisure, and Fitness Studies (31.0101 31.9999)

Health Sciences

- Health Professions and Related Clinical Sciences (51.0000 51.0599; 51.0808 51.1002; 51.1005 51.1501; 51.1503 51.1612; 51.1701 51.1801; 51.1804 51.9999)
- Dental, Medical, and Veterinary Residency Programs (60.0101 60.0399)

Humanities and Social Sciences

- Area, Ethnic, Cultural, and Gender Studies (05.0101 05.9999)
- Foreign Languages, Literatures, and Linguistics (16.0101 16.9999)
- English Language and Literature/Letters (23.0101 23.9999)
- Humanities/Humanistic Studies (24.0103)
- Library Science (25.0101 25.9999)
- Philosophy and Religious Studies (38.0101 38.9999)
- Theology and Religious Vocations (39.0201 39.9999)
- Psychology (42.0101 42.9999)
- Public Administration and Social Service Professions (44.0000 44.9999)
- Social Sciences (45.0101 45.9999)
- History (54.0101 54.0199)

Interdisciplinary and General Studies

- Liberal Arts and Sciences and General Studies (24.0101 24.0102; 24.0199)
- Multi/Interdisciplinary Studies (30.0101 30.9999)

Law, Military, and Protective Services

- Legal Professions and Studies (22.0000 22.9999)
- Military Technologies (29.0101)

■ Protective Services (43.0102 – 43.9999)

Mathematics and Computer Science

- Computer and Information Sciences and Support Services (11.0101 11.9999)
- Mathematics and Statistics (27.0101 27.9999)

Teacher Education and Related

■ Education (13.0101 – 13.9999)

NDUS Enrollment Status

NDUS re-enrollment status of graduates was determined by linking the Social Security Numbers of graduates to a list of NDUS enrollees for the Fall 2004 semester. Enrollment data was obtained from the North Dakota Higher Education Computer Network.

North Dakota Employment Status

The North Dakota employment status of graduates was determined by linking the Social Security Numbers of graduates to the fourth quarter 2004 unemployment insurance (UI) wage records. Quarterly UI wage data contain employer-reported quarterly earnings for all people employed in jobs covered by unemployment insurance. The data also include the North American Industry Classification System (NAICS) and sector codes for each reporting employer.

UI wage data do not account for people who are self employed or employed in jobs not covered by unemployment insurance (i.e., federal, railroad, some agricultural).

UI wage data are total wages earned for a quarter. Monthly wages are quarterly wages divided by three (months in a quarter). This understates the monthly wages of people who were employed for less than three full months during the quarter.

UI wage data include wages paid to both full and part-time employees, but do not contain any fields from which they can be distinguished. The full-time employment classification is estimated as fourth quarter 2004 wages greater than or equal to (minimum wage x 30 hours per week x 12 weeks per quarter) or ($$5.15 \times 30 \times 12 = 1854).

The industry of employment categories listed below are based on NAICS classification, but are structured to maintain comparability and continuity to previous years' reports that used Standard Industrial Classification (SIC) codes. Inclusion in a given category is based mainly on the NAICS sector (the first two digits of the six-character code), with adjustments made to a three or four-digit code where necessary. Service industry sub-categorization is similarly based on a two, three or four-digit identifier within the overall service category.

Agriculture, Forestry, and Fishing

Agriculture, Forestry, Fishing, and Hunting (11)

Mining

■ Mining (21)

Construction

Construction (23)

Manufacturing

- Manufacturing (31, 32, 33)
- Newspaper, Periodical, Book, and Directory Publishers (5111)

Transportation and Public Utilities

- Utilities (22)
- Transportation and Warehousing (48, 49)
- Broadcasting (515)
- Telecommunications (517)

Wholesale Trade

■ Wholesale Trade (42)

Retail Trade

- Retail Trade (44, 45)
- Food Services and Drinking Places (722)

Finance, Insurance, and Real Estate

- Finance and Insurance (52)
- Real Estate (531)
- Lessors of Nonfinancial, Intangible Assets except Copyrighted Works (533)

Services

- Business Services (55, 56, 5324)
- Auto Repair, Services, and Maintenance (5321, 8111)
- Amusement and Recreation Services (71)
- Health Services (621, 622, 6231, 6232)
- Legal Services (5411)
- Educational Services (61)
- Social Services (624, 6233, 6239)
- Professional and Management Services (54 except 5411)
- Other Service Industries (81 except 8111, 512, 516, 518, 519, 721, 5112, 5322, 5323)

Public Administration

Public Administration (92)

Nonclassifiable Entities

All industries within NAICS should be classified – this count should be zero.

HISTORICAL REFERENCE

FINDET (Follow-up Information on North Dakota Education and Training) and the valuable information it provides to the North Dakota University System and to other cooperating agencies would not have been possible without the dedication and cooperation of a number of individuals. Those individuals, with appreciation extended to each, are:

FINDET Task Force Members (and the positions they held at the time they served):

Alan Austad, executive director, North Dakota Council on Vocational Education

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