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ABSTRACT

The number of certificate and degree programs offered and awarded at public and private nonproprietary, postsecondary institutions in Alaska is listed statewide and by institution. Programs that may be underproductive based on the number of formal awards over a four-year period are also identified. A total of 252 unduplicated certificate and degree programs are offered at 18 institutions. The majority (70) are associate degree programs, followed by 67 bachelor's degree programs, 57 certificate programs, 51 master's degree programs, and 7 doctorate degree programs. During 1978-1979 to 1981-1982, Alaska postsecondary institutions awarded 1,425 certificates and 4,462 degrees. The most popular award is the associate degree, followed closely by the bachelor's degree. Since 1978-1979, certificate awards have slightly declined, while associate degree awards have increased almost 50 percent. At the certificate and associate level, oil/petroleum technology, secretarial technology, and business administration are most popular. At the bachelor's and master's level, business administration and elementary education are the most popular. Information on specific colleges is included, along with recommendations concerning underproductive programs. Definitions of formal awards and program areas are appended. (SW)

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ED239539

POSTSECONDARY
CERTIFICATES AND DEGREES
IN THE
STATE OF ALASKA

Prepared by:

The Alaska Commission on Postsecondary Education

U.S. DEPARTMENT OF EDUCATION
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TABLE OF CONTENTS

	<u>Page</u>
List of Tables	iii
List of Figures	v
Executive Summary	1
Introduction	6
Purposes	6
Organization of the Report	7
Institutions Included in the Report	7
Section I - Certificates and Degrees Offered	9
Section II - Certificates and Degrees Awarded	17
Section III - Institutional Mission as a Function of Degrees Awarded	34
Section IV - Listing of Awards by Program and the Identification of Underproductive Programs	60
Program Review	61
Section V - Commission Recommendations	101
Appendix I - Definitions of Formal Awards	103
Appendix II - Definitions of Program Areas	105
Appendix III - Program Evaluation Criteria	110

LIST OF TABLES

	<u>Page</u>
TABLE 1 - Institutions Included in this Study	8
TABLE 2 - Number of Programs Leading to a Formal Award - Statewide	10
TABLE 3 - Certificates and Degrees Offered	12
TABLE 4 - Number of Certificates and Degrees Awarded from 1978-79 to 1981-82	18
TABLE 5 - Certificates and Degrees Awarded - Statewide	20
TABLE 6 - Programs Showing the Highest Number of Awards from 1978-79 to 1981-82	33
TABLE 7 - Underproductive Programs	64
TABLE 8 - Degrees Awarded - University of Alaska, Anchorage	67
TABLE 9 - Degrees Awarded - University of Alaska, Fairbanks	71
TABLE 10 - Certificates and Degrees Awarded - University of Alaska, Juneau	78
TABLE 11 - Certificates and Degrees Awarded - Anchorage Community College	82
TABLE 12 - Certificates and Degrees Awarded - Kenai Peninsula Community College	84
TABLE 13 - Certificates and Degrees Awarded - Ketchikan Community College	85
TABLE 14 - Certificates and Degrees Awarded - Kodiak Community College	86
TABLE 15 - Certificates and Degrees Awarded - Kuskokwim Community College	87
TABLE 16 - Certificates and Degrees Awarded - Matanuska-Susitna Community College	88
TABLE 17 - Certificates and Degrees Awarded - Northwest Community College	89
TABLE 18 - Certificates and Degrees Awarded - Prince William Sound Community College	91

LIST OF TABLES (continued)

	<u>Page</u>
TABLE 19 - Certificates and Degrees Awarded - Sitka Community College	92
TABLE 20 - Certificates and Degrees Awarded - Tanana Valley Community College	93
TABLE 21 - Certificates and Degrees Awarded - Rural Education	95
TABLE 22 - Certificates and Degrees Awarded - Alaska Pacific University	96
TABLE 23 - Certificates and Degrees Awarded - Sheldon Jackson College	98
TABLE 24 - Certificates Awarded - Alaska Vocational- Technical Center	99
TABLE 25 - Degrees Awarded, Alaska Bible College	100

LIST OF FIGURES

	<u>Page</u>
Figure 1 - University of Alaska, Anchorage - Certificates and Degrees Awarded	38
Figure 2 - University of Alaska, Fairbanks - Certificates and Degrees Awarded	39
Figure 3 - University of Alaska, Fairbanks - Certificates and Degrees Awarded	40
Figure 4 - University of Alaska, Juneau - Certificates and Degrees Awarded	41
Figure 5 - University of Alaska, Juneau - Certificates and Degrees Awarded	42
Figure 6 } - Anchorage Community College - Certificates and Degrees Awarded	43
Figure 7 - Kenai Peninsula Community College - Certificates and Degrees Awarded	44
Figure 8 - Ketchikan Community College - Certificates and Degrees Awarded	45
Figure 9 - Kodiak Community College - Certificates and Degrees Awarded	46
Figure 10 - Kuskokwim Community College - Certificates and Degrees Awarded	47
Figure 11 - Matanuska-Susitna Community College - Certificates and Degrees Awarded	48
Figure 12 - Northwest Community College - Certificates and Degrees Awarded	49
Figure 13 - Prince William Sound Community College - Certificates and Degrees Awarded	50
Figure 14 } Sitka Community College Certificates and Degrees Awarded	51
Figure 15 - Tanana Valley Community College - Certificates and Degrees Awarded	52
Figure 16 - Alaska Vocational-Technical Center - Certificates and Degrees Awarded	53
Figure 17 - Kotzebue Technical Center - Certificates and Degrees Awarded	54

LIST OF FIGURES (continued)

	<u>Page</u>
Figure 18 - Alaska Pacific University- Certificates and Degrees Awarded	55
Figure 19 - Alaska Pacific University- Certificates and Degrees Awarded	56
Figure 20 - Sheldon Jackson College- Certificates and Degrees Awarded	57
Figure 21 - Sheldon Jackson College- Certificates and Degrees Awarded	58
Figure 22 - Alaska Bible College- Certificates and Degrees Awarded	59

EXECUTIVE SUMMARY

The primary purpose of this report is to identify certificate and degree programs offered at public and private non-proprietary postsecondary institutions in Alaska. The number of certificates and degrees awarded in each program area is listed statewide and by institution. Those programs which may be underproductive based on the number of formal awards over a four-year period are also identified.

Two hundred fifty-two unduplicated certificate and degree programs are offered at 18 institutions throughout the state. The majority are associate degree programs, with 70 offered, followed by 67 bachelor's degree programs, 57 s, and 51 master's degree programs. Seven doctorate degree programs are available, and all are offered at the University of Alaska, Fairbanks.

Over the past four years, from 1978-79 to 1981-82, Alaska postsecondary institutions awarded 1,425 certificates and 4,462 degrees for a total of 5,887 formal awards. The most popular award is the associate degree, followed closely by the bachelor's degree.

Since 1978-79, the awarding of the certificate has shown a slight decline. Associate degrees, on the other hand, have increased by almost 50%, with two program areas, business and commerce and data processing, showing increased popularity. While the number of bachelor's degrees awarded has also increased since 1978-79, the popularity of traditional liberal arts subjects has remained stable.

Over the same four-year period, the number of master's degrees awarded has increased, particularly in the program areas of agricultural and natural resources, business and management, letters, physical sciences, and psychology. Because of the limited number of doctoral program offerings, no trends in doctorate degrees awarded are identified.

What programs show the highest number of degrees awarded over this four-year period? At the certificate and associate level, oil/petroleum technology, secretarial technology, and business administration are most popular. At the bachelor's and master's level, business administration and elementary education are, by far, the most popular. From the associate degree to the master's degree, business administration is consistently found at the top of the list.

The number and types of certificates and degrees awarded over a four-year period at each institution help to define institutional mission. A four-year "picture" of certificate and degree productivity provides a good operational definition of what an institution is doing. Both the University of Alaska, Anchorage and University of Alaska, Fairbanks provide a wide variety of bachelor's and master's degree programs. The University of Alaska, Anchorage, however, has four program areas which represent over 50% of the degree productivity. These areas are business and management, health professions, social sciences, and education.

The University of Alaska, Juneau, is substantially smaller in size than the other two university centers, but offers programs from the certificate to the master's degree. At the certificate level, the majority of awards are in the mechanical and engineering technologies. For the associate degree, approximately 50% of awards are in the arts and

sciences, and a significant portion are in business and commerce. At the bachelor's and master's degree levels, education is the most popular program area.

At almost every community college in Alaska, the program areas of mechanical and engineering technologies and business and commerce represent a significant portion of certificates and degrees awarded. At Kuskokwim Community College and Northwest Community College, health services and paramedic technologies are very popular. While the Alaska Vocational-Technical Center in Seward offers a variety of certificate programs, mechanical and engineering technologies are, again, the most popular.

Consistent with their mission, two private institutions in Alaska offer a broad range of programs. Alaska Pacific University emphasizes liberal arts at the bachelor's level and master's programs in education. Sheldon Jackson College offers a number of certificate and associate degree programs in natural science technologies, as well as bachelor's level programs in education. The third private institution included in this study, Alaska Bible College, concentrates solely on providing associate and bachelor's degree programs in Bible and theology.

Seventy-nine instructional programs that may be underproductive are identified at institutions statewide using the following criteria:

Certificate or Degree	Program was established by:	Number of Graduates over a 4-year period was less than:
Certificate	1978	4
Associate	1977	4
Bachelor's	1975	8
Master's	1977	4
Doctorate	1975	4

The following is a listing by institution of the number of underproductive programs identified.

<u>Institution</u>	<u>No. of Programs Offered</u>	<u>No. of Underproductive Programs</u>	<u>Underproductive Programs - % of Total</u>
University of Alaska, Anchorage	47	9	19%
University of Alaska, Fairbanks	110	35	31%
University of Alaska, Juneau	32	10	31%
Anchorage Community College	34	0	
Kenai Pen. Community College	10	1	10%
Ketchikan Community College	6	3	50%
Kodiak Community College	9	6	67%
Kuskokwim Community College	6	2	33%
Mat-Su Community College	11	1	9%
Northwest Community College	11	3	27%
Prince Wm. Sound Community College	4	0	
Sitka Community College	8	2	25%
Tanana Valley Community College	19	6	32%
Rural Education	1	0	
Alaska Vocational-Tech. Center	10	0	
Kotzebue Technical Center	22	0	
Alaska Pacific University	7	0	
Sheldon Jackson College	7	0	
Alaska Bible College	2	1	50%
TOTAL	356	79	22%

Of those institutions that have been operating long enough to produce graduates over the four-year period included in this study, only Anchorage Community College, Alaska Vocational-Technical Center, and Sheldon Jackson College had no programs that could be considered underproductive.

Recommendations with regard to programs which may be underproductive are as follows:

- I. The University of Alaska should establish a time-line for the review of those programs identified as possibly underproductive.
- II. The University of Alaska, through the appropriate offices, should continue to conduct a thorough review of each identified program with special cognizance of the following questions:

- 1) Why should this program be offered by this institution?
- 2) What state needs will be met?
- 3) What is the minimum cost to operate this program with a basic core of faculty?
- 4) What standards of quality have been determined for this program?
- 5) What evidence can be presented to ensure that these standards have been achieved?
- 6) How can the program be evaluated in the context of the institution's mission, the community, the state, and the national and international education systems?
- 7) How can the program be evaluated in the context of the institution's mission, the community, the state, and the national and international education systems?
- 8) How can the program be evaluated in the context of the institution's mission, the community, the state, and the national and international education systems?
- 9) How can the program be evaluated in the context of the institution's mission, the community, the state, and the national and international education systems?
- 10) How can the program be evaluated in the context of the institution's mission, the community, the state, and the national and international education systems?

The primary task of the Commission on Distance Education is to coordinate the development of comprehensive plans for the delivery of distance education programs with the existing educational system. The Commission will also study the needs of distance education in the State and identify suitable sites for the delivery of distance education programs. The Commission will also study the needs of distance education in the State and identify suitable sites for the delivery of distance education programs.

In this study, a program is defined as any prescribed course of study leading to a diploma of secondary education which confers an area of specialization resulting in a recognized degree or certificate. The report will be published in two parts and is Appendix 1.

The following are the specific purposes for this report:

- 1. Identify the number and types of programs offered by each institution.

Work Order 100, Section 14,47,030



- b. List both the number and types of degrees and certificates awarded statewide and by each institution.
- c. Identify degree and certificate programs that may be underproductive.

General Information

The following information was obtained from the State Board of Education, the State Department of Education, and the State Office of Postsecondary Education. The information was obtained from a list of institutions of higher learning in the State of Alaska, by a definition of institution of higher learning as an institution that awards a baccalaureate degree, by a definition of institution of higher learning as an institution that awards a certificate, diploma, or degree, and by a definition of institution of higher learning as an institution that awards a certificate, diploma, or degree, and by a definition of institution of higher learning as an institution that awards a certificate, diploma, or degree.

Professional certificates and certificates, beyond the bachelors degree are not included in this study because of their special nature and their relationship to a limited clientele.

Institutions of Higher Learning

Institutions of higher learning in the State of Alaska are included in this report. Table 1 provides a listing of each institution included in the report showing its location and its affiliation, either public or private.

TABLE 1

Institutions Included in this Study

Institution	Public or Private	Level	Location	Abbr.
University of Alaska - Anchorage	Public	4-Year	Anchorage	UA
University of Alaska - Fairbanks	Public	4-Year	Fairbanks	UAF
University of Alaska - Juneau	Public	4-Year	Juneau	UAD
Anchorage Community College	Public	2-Year	Anchorage	ACC
Kerpl Peninsula Community College	Public	2-Year	Kenai	KPC
Ketchikan Community College	Public	2-Year	Ketchikan	KCC
Kodiak Community College	Public	2-Year	Kodiak	KCC
Kuskokwim Community College	Public	2-Year	Bethel	KUCC
Matanuska Community College	Public	2-Year	Palmer	MSCC
Northwest Community College	Public	2-Year	Nome	NWCC
Prince William Sound Community College	Public	2-Year	Valdez	PWSCC
Sitka Community College	Public	2-Year	Sitka	SCC
Tanana Valley Community College	Public	2-Year	Fairbanks	TVCC
Royal Education	Public	2-Year	Statewide	RE
Alaska Vocational Technical Centers at Seward	Public	Vo Tech	Seward	AVT
Kotzebue Technical Center	Public	Vo Tech	Kotzebue	FTC
Alaska Pacific University	Private	4-Year	Anchorage	APU
Melchor Jackson College	Private	2-Year	Sitka	MJC
Alaska Bible College	Private	4-Year	Glennallen	ABC

Chukchi Community College in Kotzebue is not included because of its very recent opening.

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which are postsecondary institutions offering undergraduate certificate and degree programs. Table 3 shows the number of programs leading to each type of formal award offered within the state.

Table 3
Number of Programs Leading to Formal Awards, Statewide

Formal award	Number
Certificate	50
Bachelor's	10
Master's	10
Doctorate	1
TOTAL	71

Several of the instructional programs leading to a formal award are replicated in two or more institutions throughout the state, and if all offerings are considered, the number of total programs equals 356.

Table 4 provides a detailed listing of each program offering in the state, the award offered and the institution, which offer it. The listings are separated into six distinct categories of similar program areas. This arrangement will be used throughout the report. The program areas were established by the National Center for Educational Statistics (NCES) for the Higher Education General Information Survey (HEGIS). A brief description of each program area is given in Appendix II. For bachelor's degrees and above, the categories are as follows:

Program	Program Area
0100	Agriculture and Natural Resources
0200	Architecture and Environmental Design
0300	Area Studies

Program
Taxonomy

Program Area

0400	Biological Sciences
0500	Business and Management
0600	Communications
0700	Computer and Information Sciences
0800	Education
0900	Engineering
1000	Health and Applied Health
1100	Human Services
1200	Health Professions
1300	Liberal Arts
1400	Mathematics
1500	Natural Sciences
1600	Physical Sciences
1700	Public Administration
1800	Public Safety
1900	Public Service
2000	Unclassified
2100	Unclassified
2200	Unclassified
2300	Unclassified
2400	Unclassified
2500	Unclassified
2600	Unclassified
2700	Unclassified
2800	Unclassified
2900	Unclassified
3000	Unclassified
3100	Unclassified
3200	Unclassified
3300	Unclassified
3400	Unclassified
3500	Unclassified
3600	Unclassified
3700	Unclassified
3800	Unclassified
3900	Unclassified
4000	Unclassified
4100	Unclassified
4200	Unclassified
4300	Unclassified
4400	Unclassified
4500	Unclassified
4600	Unclassified
4700	Unclassified
4800	Unclassified
4900	Unclassified
5000	Unclassified
5100	Unclassified
5200	Unclassified
5300	Unclassified
5400	Unclassified
5500	Unclassified
5600	Unclassified

... of these categories are listed in the following table. Identify each formal award.

Code	Formal Award
C	Certificate
A	Associate
B	Bachelor's
M	Master's
D	Doctorate



TABLE 3
Certificates and Degrees Offered — Statewide

Program Name	AA	BAF	BAJ	AV	TE	KC	CC	CC	CC	NW	PWS	TV	HE	AV	PL	APU	SJC	ABT
Agriculture and Natural Resources																		
Agriculture																		
Environmental Science																		
Forest Management																		
Wildlife Management																		
Architecture and Environmental Design																		
Architecture																		
Interior Design																		
Landscape Architecture																		
Area Studies																		
Area Studies																		
International Studies																		
Biological Sciences																		
Biology																		
Botany																		
Zoology																		
Business and Management																		
Business Administration																		
Accounting																		
Business Administration																		
Real Estate																		
Management																		
Communications																		
Communications																		
Journalism																		
Computer and Information Sciences																		
Computer Science																		
Education																		
Education																		
Elementary																		
Secondary Education																		
Early Childhood Education																		
College Student Personnel Administration																		
Guidance and Counseling																		
Public School Administration																		
Music Education																		
Music Education Elementary																		
Music Education Secondary																		
Physical Education																		
Vocational Education																		
Cross-Cultural Education																		
Engineering																		
Petroleum Engineering																		
Civil Engineering																		
Electrical Engineering																		
Mechanical Engineering																		

TABLE 3. (continued)
 Certificates and Degrees Offered — Statewide

Program Taxonomy	Program Name	00A	01A	02A	03A	04A	05A	06A	07A	08A	09A	10A	11A	12A	13A	14A	15A	16A	17A	18A
0900	Foreign Languages																			
0910	French																			
0920	Spanish																			
1100	Health Professions																			
1101	Biomedical Science																			
1102	Medical Laboratory Science																			
1103	Radiation Therapy																			
1104	Podiatric Medicine																			
1105	Pharmacy																			
1106	Public Health																			
1200	Mathematics																			
1201	Mathematics																			
1900	Physical Sciences																			
1901	Applied Physics																			
1902	Physics																			
1903	Chemistry																			
1913	Atmosphere Science																			
1914	Geology																			
1917	Earth Science																			
1919	Oceanography																			
1999	Geology and Geophysics																			
1999	Space Physics																			
2000	Psychology																			
2001	Psychology																			
2004	Counseling Psychology																			
2100	Public Affairs and Services																			
2102	Public Administration																			
2104	Social Work																			
2105	Justice																			

TABLE 3 (continued)
Certificates and Degrees Offered — Statewide

Program Taxonomy	Program Name	UAA	UAF	UAJ	ACC	XP CC	KCC	KO CC	KU CC	MS CC	NW CC	PWS CC	SCC	TV CC	RE	VT	KTC	APU	SJC	ABC
2200	Social Sciences																			
2202	Anthropology																			
2204	Economics																			
2205	History																			
2206	Geography																			
2207	Government																			
2208	Political Science																			
2209	Sociology																			
2212	Alaska Native Studies																			
2219	Geography and Meteorology																			
2299	History and Economics																			
3300	Theological Professions																			
3301	Theology and Pastoral Studies																			
4000	Interdisciplinary Studies																			
4001	Liberal Arts																			
4002	General Studies																			
4003	Humanities																			
4004	Science Professions																			
5000	Business and Commerce Technologies																			
5001	Business																			
5001	Business Administration																			
5002	Accounting																			
5002	Accounting Technologies																			
5002	Accounting Clerk																			
5004	Business Support																			
5005	Clerk Typist																			
5005	Office Assistant																			
5005	Office Organization																			
5005	Secretarial Studies																			
5005	Secretarial Technology																			
5005	Stenographer																			
5099	Employability																			
5099	Travel Industry Manager																			
5099	Women in Management																			
5100	Data Processing Technologies																			
5101	Computer Information Systems																			
5101	Data Processing																			
5200	Health Services and Paramedic Tech.																			
5200	Paramedic Technologies																			
5202	Dental Assisting																			
5203	Dental Hygiene																			
5205	Medical Laboratory Technology																			
5208	Nursing Science																			
5209	Nursing - Nurses Aide																			
5209	Practical Nursing																			
5214	Medical Assisting																			

TABLE 3 (continued)
Certificates and Degrees Offered — Statewide

Program Taxonomy	Program Name	UAA	UAF	UAJ-ACC	KP CC	KO CC	KU CC	MS CC	NW CC	PWS CC	SCC CC	RE	AVT	KIC	APU	SJC	ABC
5404	Food Service Technology																
5405	Family Living Management																
5405	Home Economics																
5406	Marine Maintenance Technology																
5406	Marine Technology																
5499	Commercial Fisheries																
5499	Federal Resources Technology																
5499	Seafood Processing																
5500	Public Service Related Technology																
5501	Public Services Technological																
5502	Public																
5503	Public Administration																
5503	Public Management																
5503	Public Services Technology																
5504	Library Technical Assistant																
5505	Communications Technologies																
5507	Fire Science																
5507	Fire Science Technology																
5599	Developmental Disabilities																
5599	Justice																
5599	Paralegal Studies																
5599	Paraprofessional Counseling																
5600	Arts and Science																
5600	Applied Mathematics																
5600	Art																
5600	Art and Design																
5600	Business Administration																
5600	Chemical Science																
5600	Communications																
5600	Computer Inform																
5600	Education																
5600	Justice																
5600	Liberal Arts																
5600	Science																
5600	Yupik Language																
5600	General Program																

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CERTIFICATES AND DEGREES AWARDED

Over the period from 1978-79 to 1981-82, Alaskan institutions awarded 1,425 certificates and 4,463 degrees to Alaskan students for a total of 5,887 formal awards. As Table 4 shows, the associate degree is the most popular formal award, followed closely by the Bachelor's degree and the certificate.

Table 4
Number of Certificates and Degrees Awarded
from 1978-79 to 1981-82

Certificate	1,425
Associate	1,918
Bachelor's	1,789
Master's	742
Doctorate	13
TOTAL	5,887

Table 4 also revealed that of certificates and degrees awarded from 1978-79 to 1981-82, program offerings in the area of certificates awarded has declined slightly over the four-year period from 325 in 1978-79 to 318 in 1981-82. Only the program area of natural science technologies has shown an increase in certificates awarded. On the other hand, the number of associate degrees awarded has increased almost 50% over the four-year period with the program areas of business and commerce and data processing technologies showing substantial increases. It is interesting to note that the number of associate degrees awarded in natural science technologies, unlike the certificates, decreased substantially.

At the bachelor's level, there has been a steady increase over the four-year period with some program areas such as agriculture and natural resources, business and management, health professions, and public affairs and services showing significant gains. In general, the traditional liberal arts subjects show a moderate rate of addition.

Overall, the number of master's degrees awarded has increased every year. Engineering showed significant increases for the first three years and then had an abrupt decline; it remains to be seen if this pattern will persist in future years. The program areas of agriculture and natural resources, business and management, letters, physical sciences and psychology have shown the greatest increase in degrees awarded.

Because of the limited doctoral level program offerings and degrees, few trends may be discerned.

TABLE 5
Certificates and Degrees Awarded - Statewide

Level: Certificate

Program Taxonomy	Program Name	Number of Graduates				Total
		78-79	79-80	80-81	81-82	
5000	BUSINESS & COMMERCE TECHNOLOGIES					
5002	Accounting Technologies	14	5	2	14	25
5004	Business Management Technologies	1	0	0	0	1
5005	Office Occupations	34	15	9	5	63
5005	Secretarial Technologies	26	30	34	29	119
	TOTAL	75	50	45	38	208
5200	HEALTH SERVICES & PARAMEDIC TECH.					
5202	Dental Assisting	0	12	12	8	32
5209	Nursing - Nursing Aide	0	4	0	0	4
5209	Practical Nursing	0	16	15	8	39
5299	Community Health Aide	11	20	6	5	42
5299	Health Science	11	0	0	0	11
	TOTAL	22	52	33	21	128
5300	MECHANICAL & ENGINEERING TECHNOLOGIES					
5302	Aviation Maintenance Tech.	0	10	10	0	20
5304	Architectural Drafting	0	4	0	1	5
5306	Automotive Technology	23	22	24	27	96
5307	Diesel Technology	29	34	36	30	129
5308	Welding Technologies	11	34	12	21	78
5310	Electronics Technology	1	19	7	9	46
5315	Mechanical Technology	32	26	15	21	94
5317	Building Maintenance Tech.	0	0	1	0	1
5317	Construction and Building Tech.	36	42	22	18	118
5317	Heating Technology	2	0	4	3	9
5317	Refrigeration Technology	0	11	10	11	32
5317	Vocational and Technical Ed.	6	0	0	0	6
5399	Civil Engineering Drafting	0	12	0	1	13
5399	Mechanical and Electrical Drafting	25	1	0	0	26
5399	Oil/Petroleum Technology	47	43	52	45	187
5399	Structural Drafting	0	9	0	3	12
	TOTAL	222	267	193	190	872
5400	NATURAL SCIENCE TECHNOLOGIES					
5403	Forestry and Wildlife Tech.	8	26	32	34	100
5404	Food Service - Baking Tech.	1	1	0	1	3
5405	Food Services Technologies	25	27	26	33	111
	TOTAL	34	54	58	68	214

TABLE 5 (continued)
 Certificates and Degrees Awarded - Statewide

Level: Certificate (cont.)

Program Taxonomy	Program Name	Number of Graduates				Total
		78-79	79-80	80-81	81-82	
5500	PUBLIC SERVICE RELATED TECHNOLOGIES	0	0	0	1	1
5503	Early Childhood Education	1	0	0	0	1
5507	Fire Science Technology					
	TOTAL	1	0	0	1	2
	OTHER	1	0	0	0	1
	TOTAL	1	0	0	0	1
	TOTAL CERTIFICATES AWARDED	355	423	329	318	1425

TABLE 5 (continued)
 Certificates and Degrees Awarded - Statewide

Level: Associate

Program Taxonomy	Program Name	Number of Graduates				Total
		78-79	79-80	80-81	81-82	
5000	BUSINESS & COMMERCE TECHNOLOGIES					
5001	Business	0	2	1	2	5
5001	Business Administration	0	32	34	53	119
5002	Accounting	14	12	7	26	59
5004	Business Supervision	0	1	0	1	2
5005	Office Occupations	18	25	13	15	71
5005	Secretarial Science	2	0	2	0	4
	TOTAL	34	72	57	97	260
5100	DATA PROCESSING TECHNOLOGIES					
5101	Computer Information Systems	1	11	5	14	31
	TOTAL	1	11	5	14	31
5200	HEALTH SERVICES & PARAMEDIC TECH.					
5200	Paramedic Technology	5	5	1	0	11
5202	Dental Assisting	3	4	3	5	15
5203	Dental Hygiene	6	8	10	7	31
5205	Medical Laboratory Technology	9	4	10	11	34
5208	Nursing Science	30	23	19	36	108
5214	Medical Assisting	7	2	1	0	10
5299	Community Health Practitioner	0	0	1	0	1
	TOTAL	60	46	45	59	210
5300	MECHANICAL & ENGINEERING TECHNOLOGIES					
5302	Airframe and Power Plant	0	5	3	4	12
5302	Air Traffic Control	0	8	6	5	19
5302	Aviation Administration	0	4	3	2	9
5302	Aviation Maintenance Technology	18	3	1	2	24
5302	Aviation Technology	10	0	5	1	16
5302	Professional Piloting	2	16	13	11	42
5303	Graphic Arts and Design	0	0	2	0	2
5306	Automotive Technology	3	4	2	3	12
5307	Diesel Technology	2	4	3	5	14
5308	Welding Technology	0	1	3	2	6
5309	Surveying Technology	5	5	8	5	23
5310	Electronics Technology	18	24	19	27	88
5312	Industrial Technologies	14	0	0	0	14
5314	Industrial Proc. Instrumentation	0	3	10	8	21
5317	Construction Technology	2	0	0	3	5
5317	Refrigeration & Heating Tech.	1	0	2	2	5
5399	Architectural & Eng. Drafting Tech.	6	12	4	8	30

TABLE 5 (continued)
 Certificates and Degrees Awarded - Statewide

Level: Associate (cont.)

Program Taxonomy	Program Name	Number of Graduates				Total
		78-79	79-80	80-81	81-82	
5300	MECHANICAL & ENGINEERING TECH. (cont.)					
5399	Industrial Electronics	0	3	4	2	9
5399	Petroleum Engineering Aide	0	0	3	2	5
5399	Petroleum Technology	4	39	62	64	169
	TOTAL	85	131	153	156	525
5400	NATURAL SCIENCE TECHNOLOGIES					
5403	Forestry & Wildlife Technologies	4	7	0	0	11
5404	Food Service - Baking Technology	1	4	5	0	10
5404	Food Service Technology	5	1	1	1	8
5405	Home Economics	4	2	3	5	14
5406	Marine Technology	1	0	0	1	2
	TOTAL	15	14	9	7	45
5500	PUBLIC SERVICE RELATED TECHNOLOGIES					
5501	Public Service Technologies, Gen.	13	0	0	0	13
5502	Bible	0	0	5	5	10
5503	Early Childhood Development	6	0	2	7	15
5503	Early Childhood Education	3	3	6	2	14
5503	Education Technologies	6	2	0	3	11
5504	Library Technical Assistant	2	8	3	3	16
5505	Corrections Technologies	0	2	2	1	5
5507	Fire Science	9	10	6	7	32
5599	Justice	7	5	1	0	13
5599	Paralegal Studies	0	0	1	1	2
5599	Paraprofessional Counseling	0	0	3	4	7
	TOTAL	46	30	29	33	138
5600	ARTS & SCIENCES					
5600	Arts and Science	0	0	20	20	40
5600	Chemical Science	2	0	1	2	5
5600	Computer Information Systems	3	3	1	13	20
5600	Education	0	2	0	0	2
5600	Justice	0	4	4	10	18
5600	Liberal Arts	0	1	4	2	7
5600	Science	3	3	7	4	17
5600	General Program	141	130	158	169	598
	TOTAL	149	143	195	220	707

TABLE 5 (continued)
 Certificates and Degrees Awarded - Statewide

Level: Associate (cont.)

<u>Program Taxonomy</u>	<u>Program Name</u>	<u>Number of Graduates</u>				<u>Total</u>
		<u>78-79</u>	<u>79-80</u>	<u>80-81</u>	<u>81-82</u>	
	OTHER	0	1	1	0	2
	TOTAL	0	1	1	0	2
	TOTAL ASSOCIATE DEGREES AWARDED	390	448	494	586	1918

TABLE 5 (continued)
 Certificates and Degrees Awarded - Statewide

Level: Bachelor's

Program Taxonomy	Program Name	Number of Graduates				Total
		78-79	79-80	80-81	81-82	
0100	AGRICULTURE & NATURAL RESOURCES					
0107	Fisheries	0	2	2	2	6
0107	Fisheries Science	0	4	2	5	11
0107	Wildlife Management	6	8	13	7	34
0115	Natural Resources/Management	5	13	9	10	37
	TOTAL	11	27	26	24	88
0300	AREA STUDIES					
0307	Russian Studies	0	1	0	0	1
0399	Northern Studies	0	0	3	0	3
	TOTAL	0	1	3	0	4
0400	BIOLOGICAL SCIENCES					
0401	Biological Science	20	39	40	31	130
0401	Biology	0	1	2	2	5
	TOTAL	20	40	42	33	135
0500	BUSINESS & MANAGEMENT					
0501	Business	2	3	4	6	15
0502	Accounting	6	13	14	14	47
0506	Business Administration	41	44	55	74	214
	TOTAL	49	60	73	94	276
0600	COMMUNICATIONS					
0602	Journalism	9	12	12	6	39
0699	Journalism & Public Communications	2	3	1	8	14
	TOTAL	11	15	13	14	53
0700	COMPUTER & INFORMATION SCIENCES					
0701	Computer Science	0	0	0	1	1
	TOTAL	0	0	0	1	1
0800	EDUCATION					
0801	Education	9	2	2	0	13
0802	Elementary Education	50	42	50	43	185
0803	Secondary Education	2	5	10	12	29
0823	Early Childhood Education	0	3	2	1	6
0832	Music Education	0	0	2	0	2
0832	Music Education - Elementary	0	0	0	2	2

TABLE 5 (continued)
 Certificates and Degrees Awarded - Statewide

Level: Bachelor's (cont.)

Program Taxonomy	Program Name	Number of Graduates				Total
		78-79	79-80	80-81	81-82	
0800	EDUCATION					
0832	Music Education - Secondary	0	0	0	7	7
0835	Physical Education	3	1	6	7	17
0899	Cross-Cultural Education	0	3	2	7	12
	TOTAL	64	56	74	79	273
0900	ENGINEERING					
0907	Petroleum Engineering	0	0	0	5	5
0908	Civil Engineering	16	13	16	17	62
0909	Electrical Engineering	2	5	10	10	27
0910	Mechanical Engineering	2	5	4	9	20
0911	Geological Engineering	3	7	5	4	19
0918	Mining Engineering	5	2	3	5	15
	TOTAL	28	32	38	50	148
1000	FINE & APPLIED ARTS					
1002	Art	13	19	13	18	63
1004	Music Performance	0	1	4	1	6
1005	Music	6	5	2	3	16
1007	Theatre	0	2	5	1	8
	TOTAL	19	27	24	23	93
1100	FOREIGN LANGUAGES					
1101	Foreign Languages	0	0	2	2	4
1199	Inupiaq Eskimo	0	2	1	0	3
1199	Yupik Eskimo	0	1	0	2	3
	TOTAL	0	3	3	4	10
1200	HEALTH PROFESSIONS					
1203	Nursing Science	21	35	28	49	133
1223	Medical Technology	0	0	1	1	2
	TOTAL	21	35	29	50	135
1500	LETTERS					
1501	English	8	8	10	13	39
1505	Linguistics	0	0	0	1	1
1506	Speech Communication	2	1	2	1	6
1509	Philosophy	3	1	0	0	4
	TOTAL	13	10	12	15	50

TABLE 5 (continued)
 Certificates and Degrees Awarded - Statewide

Level: Bachelor's (cont.)

Program Taxonomy	Program Name	Number of Graduates				Total
		78-79	79-80	80-81	81-82	
1700	MATHEMATICS					
1701	Mathematics	8	9	11	10	38
	TOTAL	8	9	11	10	38
1900	PHYSICAL SCIENCES					
1902	Physics	3	3	3	3	12
1905	Chemistry	4	4	4	2	14
1914	Geology	8	4	7	5	24
1917	Earth Science	0	1	1	1	3
	TOTAL	15	12	15	11	53
2000	PSYCHOLOGY					
2001	Psychology	24	18	26	22	90
	TOTAL	24	18	26	22	90
2100	PUBLIC AFFAIRS & SERVICES					
2104	Social Work	2	2	12	11	27
2105	Justice	0	11	11	11	33
	TOTAL	2	13	23	22	50
2200	SOCIAL SCIENCES					
2202	Anthropology	11	9	10	10	40
2204	Economics	5	4	3	7	19
2205	History	14	5	7	9	35
2206	Geography	5	2	4	4	15
2207	Political Science	9	5	12	12	38
2208	Sociology	7	19	8	10	44
	TOTAL	51	44	44	52	191
2300	THEOLOGY					
2301	Theological Professions, General	0	3	0	3	6
	TOTAL	0	3	0	3	6
4900	INTERDISCIPLINARY STUDIES					
4901	Liberal Arts	0	1	3	21	25
4902	General Science	1	3	2	0	6
4902	Natural Science	0	3	3	4	10
4903	Humanities	3	0	0		6
4999	Interdisciplinary Studies	11	1	2		15
	TOTAL	15	8	10	29	62

TABLE 5 (continued)
 Certificates and Degrees Awarded - Statewide

Level: Bachelor's (cont.)

Program Taxonomy	Program Name	Number of Graduates				Total
		78-79	79-80	80-81	81-82	
	OTHER	18	5	0	0	23
	TOTAL	18	5	0	0	23
	TOTAL BACHELOR'S DEGREES AWARDED	369	418	466	536	1789

TABLE 5 (continued)
Certificates and Degrees Awarded - Statewide

Level: Master's

Program Taxonomy	Program Name	Number of Graduates				Total
		78-79	79-80	80-81	81-82	
0100	AGRICULTURE & NATURAL RESOURCES					
0107	Fisheries	0	3	1	3	7
0107	Wildlife Management	4	6	7	7	24
0115	Natural Resources Management	2	0	2	5	9
0199	Fisheries Biology	0	1	3	1	5
	TOTAL	6	10	13	16	45
0400	BIOLOGICAL SCIENCES					
0401	Biology	1	9	2	4	16
0402	Botany	3	1	0	0	4
0407	Zoology	1	3	3	1	8
0418	Marine Biology	0	0	1	0	1
	TOTAL	5	13	6	5	29
0500	BUSINESS & MANAGEMENT					
0506	Business Administration	11	11	15	17	54
0511	Real Estate	0	0	1	1	2
0515	Human Resources Management				2	
	TOTAL	11	11	16	20	58
0800	EDUCATION					
0801	Education	84	85	79	65	313
0802	Elementary Education	0	0	0	2	2
0803	Secondary Education	0	0	0	2	2
0826	College Student Personnel Admin.	0	0	0	3	3
0826	Guidance and Counseling	0	0	0	3	3
0827	Public School Administration	0	0	0	6	6
0839	Vocational Education	0	0	0	2	2
0899	Cross-Cultural Education	0	0	1	2	3
	TOTAL	84	85	80	85	334
0900	ENGINEERING					
0908	Civil Engineering	1	4	8	5	18
0913	Engineering Management	10	6	19	4	39
0913	Science Management	3	5	1	0	9
0918	Mineral Preparation Engineering	2	1	0	1	4
0918	Mining Engineering	0	1	1	0	2
0922	Environmental Quality Engineering	0	1	0	2	3
0922	Environmental Quality Science	0	2	2		5
0999	Arctic Engineering	0	0	0		
	TOTAL	16	20	31	16	53

TABLE 5 (continued)
 Certificates and Degrees Awarded - Statewide

Level: Master's (cont.)

Program Taxonomy	Program Name	Number of Graduates				Total
		78-79	79-80	80-81	81-82	
1000	FINE & APPLIED ARTS					
1005	Music	0	2	1	2	5
	TOTAL	0	2	1	2	5
1500	LETTERS					
1501	English	1	5	6	7	19
	TOTAL	1	5	6	7	19
1700	MATHEMATICS					
1701	Mathematics	1	1	0	0	2
	TOTAL	1	1	0	0	2
1900	PHYSICAL SCIENCES					
1902	Physics	1	0	0	1	2
1905	Chemistry	1	2	0	2	5
1913	Atmospheric Science	0	0	1	1	2
1919	Oceanography	2	5	7	3	17
1999	Geology and Geophysics	7	6	3	8	24
1999	Space Physics	0	1	2	3	6
	TOTAL	11	14	13	18	56
2000	PSYCHOLOGY					
2004	Counseling Psychology	6	4	6	13	29
	TOTAL	6	4	6	13	29
2100	PUBLIC AFFAIRS & SERVICES					
2102	Public Administration	18	11	9	8	46
	TOTAL	18	11	9	8	46
2200	SOCIAL SCIENCES					
2202	Anthropology	3	0	7	3	13
	TOTAL	3	0	7	3	13
4900	INTERDISCIPLINARY STUDIES					
4901	Liberal Arts	0	3	0	5	8
4902	General Science	1	0	0	0	1
4999	Interdisciplinary Studies	1	2	1	1	5
	TOTAL	2	5	1	6	14

TABLE 5 (continued)
 Certificates and Degrees Awarded - Statewide

Level: Master's (cont.)

Program Taxonomy	Program Name	Number of Graduates				Total
		78-79	79-80	80-81	81-82	
	OTHER	4	4	1	0	9
	TOTAL	4	4	1	0	9
	TOTAL MASTER'S DEGREES AWARDED	168	185	190	199	742

TABLE 5 (continued)
 Certificates and Degrees Awarded - Statewide

Level: Doctorate

Program Taxonomy	Program Name	Number of Graduates				Total
		78-79	79-80	80-81	81-82	
0400	BIOLOGICAL SCIENCES					
0401	Biological Science	2	0	1	1	4
	TOTAL	2	0	1	1	4
1900	PHYSICAL SCIENCES					
1999	Geology and Geophysics	2	0	0	0	2
1999	Space Physics	0	0	1	0	1
	TOTAL	2	0	1	0	3
4900	INTERDISCIPLINARY STUDIES					
4999	Interdisciplinary Studies	1	0	0	5	6
	TOTAL	1	0	0	5	6
	TOTAL DOCTORAL DEGREES AWARDED	5	0	2	6	13

What programs show the highest number of awards offered over the four-year period? Table 6 shows each formal award, and the five programs with the highest number of awards in descending order. (Because of the small number of doctorates awarded, these formal awards are omitted from this analysis.) Business administration, education, petroleum technologies, and nursing science are programs that appear to be the most popular.

TABLE 6
 Five Programs with the Highest Number
 of Awards from 1978/79 to 1981/82
 (In Descending Order
 Number of Awards)

Certificate	Associate	Bachelor's	Master's
Oil/Petroleum Tech. (127)	Gen. Program* (198)	Business Admin. (214)	Education (313)
Diesel Tech. (129)	Petroleum Tech. (169)	Elementary Ed. (184)	Business Admin. (54)
Secretarial Tech. (119)	Business Admin. (119)	Nursing Science (133)	Public Admin. (46)
Construction & Bldg. Tech. (113)	Nursing Science (108)	Biological Science (130)	Engineering Mgmt. (39)
Food Service Tech. (111)	Petroleum Tech. (79)	Psychology (79)	Counseling Psychology (29)

*Transfer Program

SECTION III
INSTITUTIONAL MISSION AS A FUNCTION OF
DEGREES AWARDED

34

42

The postsecondary institutions in Alaska offer a variety of programs and services. Each publishes a catalog describing its institutional mission and the programs it offers. The purpose of this section is to illustrate institutional missions by showing the number and percentage of certificates and degrees awarded over the four-year period for each institution. A four year "picture" of certificate and degree productivity provides a good operational definition of what an institution is really doing. Figures 1 through 22 show the degree of productivity for each institution.

The University of Alaska, Anchorage (Figure 1) has awarded bachelor's degrees in a wide variety of programs, although well over 50% of those degrees were awarded in the four program areas of business and management, health professions, social sciences, and education. At the master's level at UAA, education is by far the most popular program offering, with engineering a distant second. The University of Alaska, Fairbanks campus (Figure 2) also offers a wide variety of programs. Although engineering and education are the most popular, there is quite a disparate range of bachelor's degree graduates. At the master's level, education is the most popular program area, but there are several program areas from which a substantial number of students have graduated. For the 13 doctoral students graduating over the past four years, the physical and biological sciences represent a significant portion of degrees awarded.

Both the University of Alaska, Anchorage and the University of Alaska, Fairbanks appear to be multi-purpose, comprehensive institutions offering a wide area of program offerings, and awarding a commensurate number of degrees. The University of Alaska, Juneau (Figure 3), on the other hand, presents a different picture. Substantially smaller in size

than the other two university centers, the University of Alaska, Juneau offers the certificate through the master's degree. At the certificate level, the vast majority of graduates were in the mechanical and engineering subject areas. For the associate degree, approximately 50% of the awards were in arts and science with another significant portion in business and commerce. At the bachelor's degree level, education is again the most popular program area, however, other program areas such as interdisciplinary studies and agricultural and natural resources represent a very high proportion of graduates. Two program areas, education and public affairs and services, represent over 75% of the formal awards at the master's level, with engineering, agricultural, natural resources, and business and management accounting for the remainder.

The community colleges in Alaska (Figures 6 through 15) share two or three program areas. At almost every community college, the program areas of mechanical and engineering technologies and business and commerce represent a significant portion of their certificates and degrees awarded. At two of the rural institutions, Kuskokwim Community College and Northwest Community College, health services and paramedic technologies are very popular. At the Alaska-Vocational Technical Center in Seward (Figure 16), mechanical and engineering technologies is by far the most popular program area, followed by natural science technologies.

The private non-proprietary institutions in Alaska offer a diverse range of programs and services (see Figures 18 through 22). Alaska Pacific University shows a liberal arts emphasis at the bachelor's level and stresses the program area of education at the master's level. Sheldon Jackson College in Sitka has had a number of graduates in natural

science technologies at both the certificate and associate level; the college also awards a limited number of bachelor's degrees in education. Alaska Bible College projects its single purpose mission by awarding both associate and bachelor's degrees in Bible and theology.

FIGURE 1.

UNIVERSITY OF ALASKA, ANCHORAGE

CERTIFICATES AND DEGREES AWARDED

1978-79 to 1981-82

(PERCENTAGE/NUMBER)

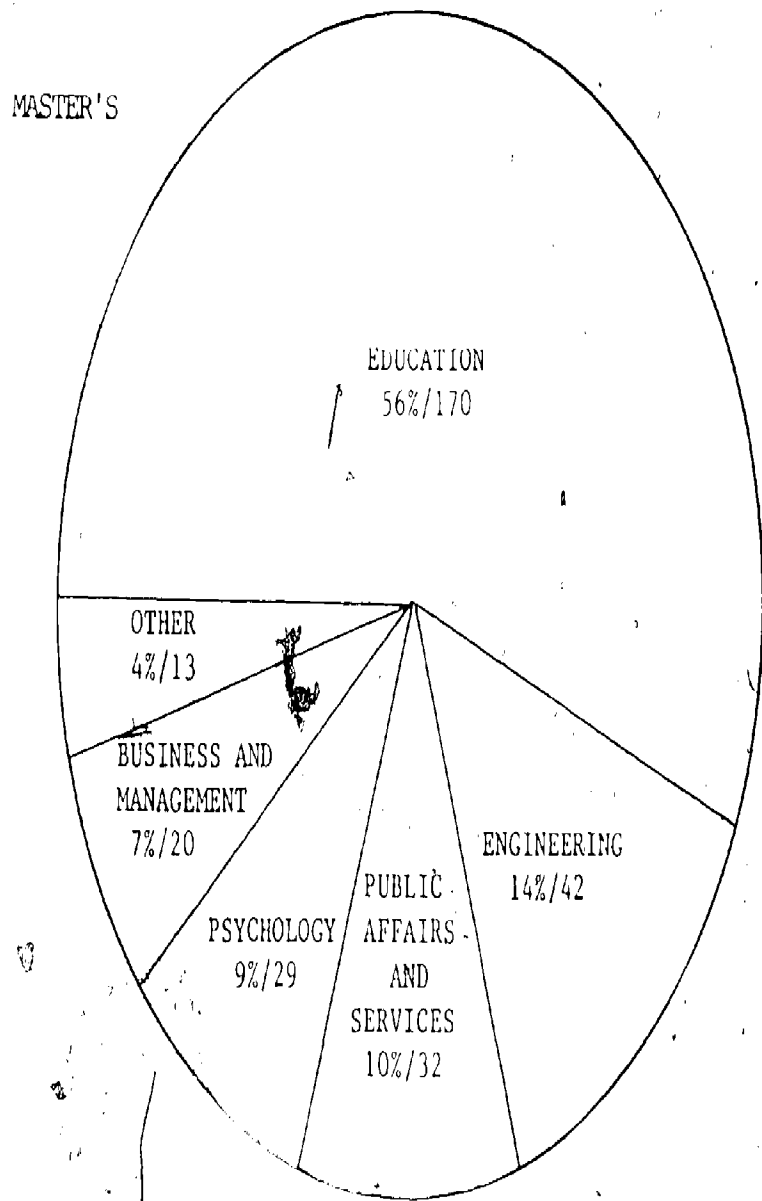
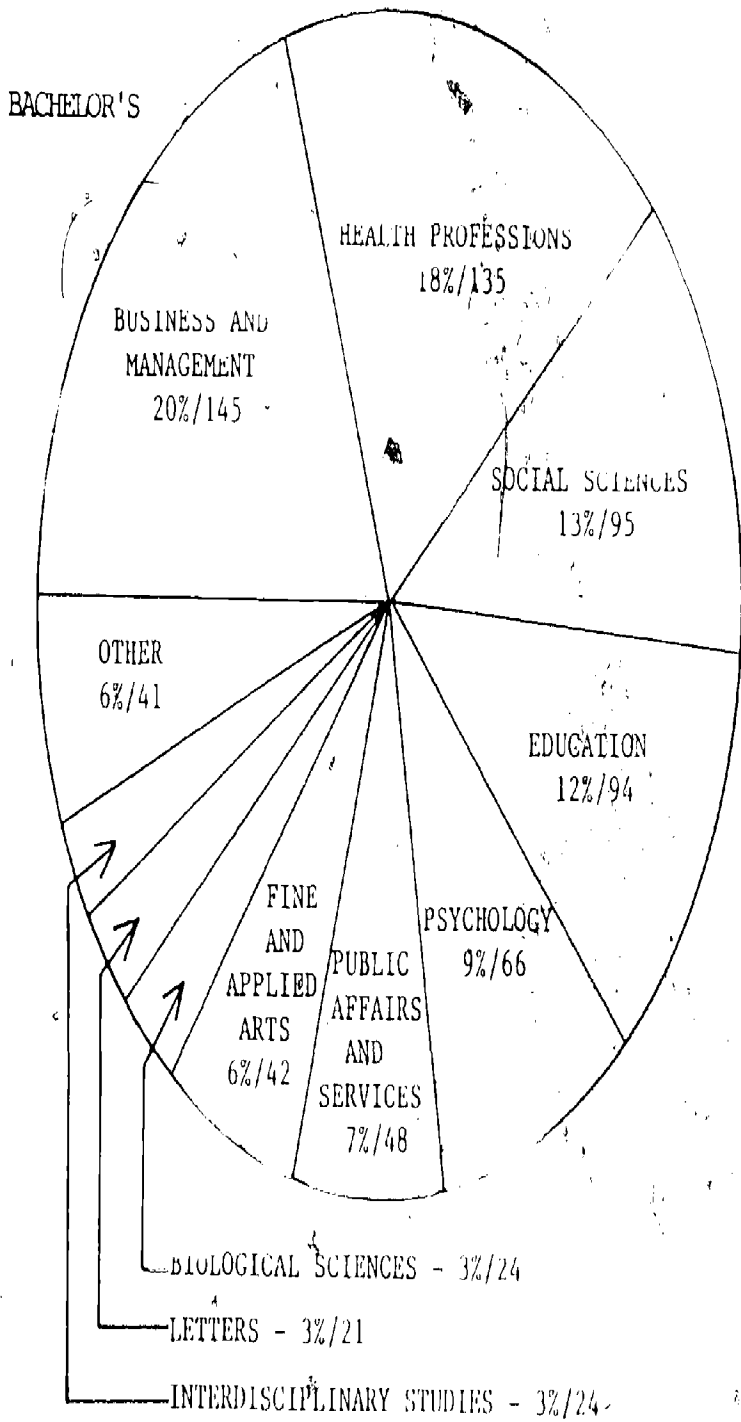


FIGURE 2

UNIVERSITY OF ALASKA, FAIRBANKS

CERTIFICATES, AND DEGREES AWARDED

1978-79 to 1981-82

(PERCENTAGE/NUMBER)

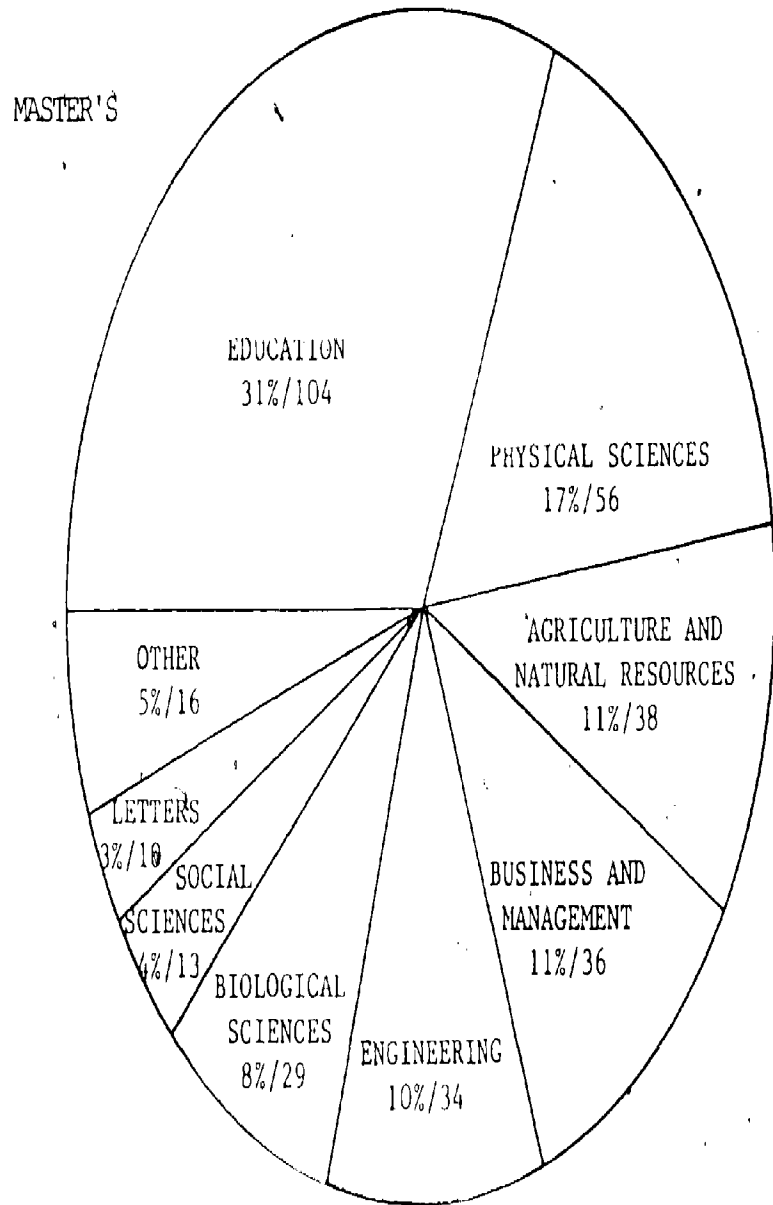
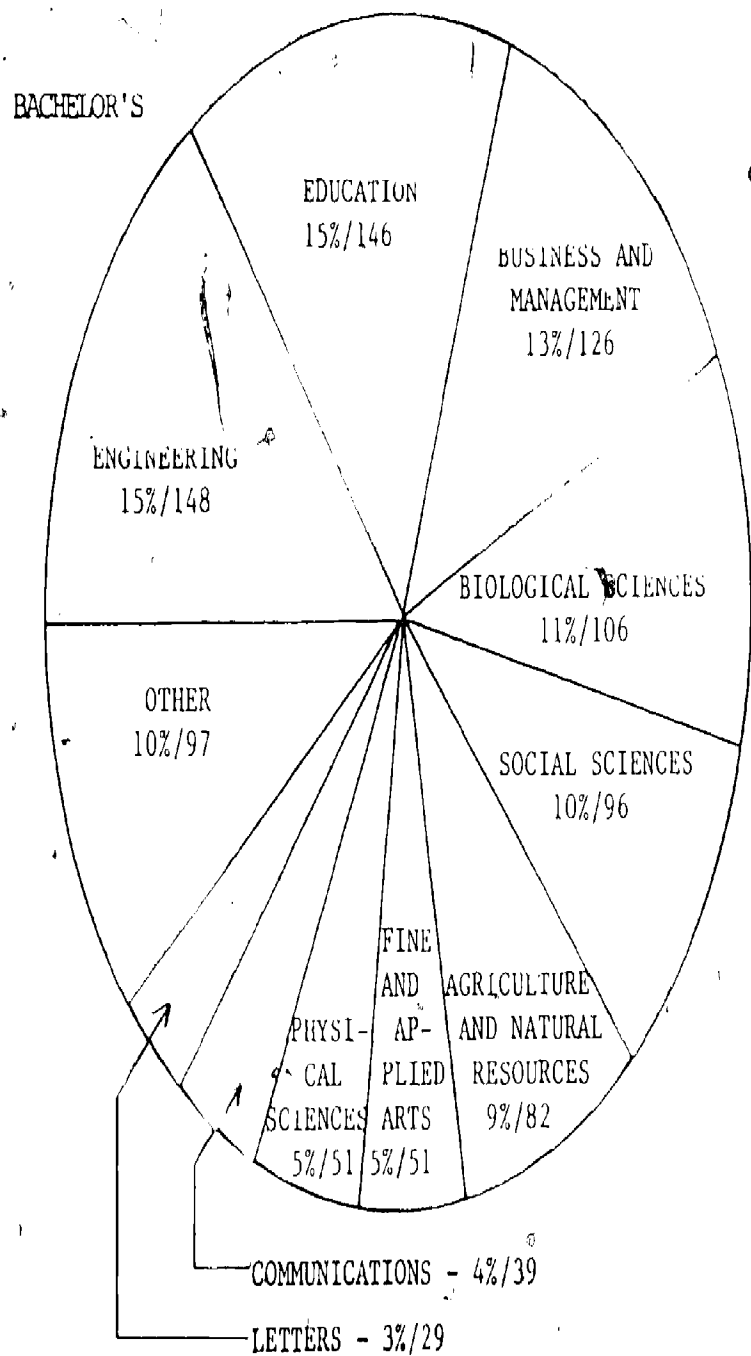


FIGURE 3
UNIVERSITY OF ALASKA, FAIRBANKS
CERTIFICATES AND DEGREES AWARDED
1978-79 to 1981-82
(PERCENTAGE/NUMBER)

DOCTORATE

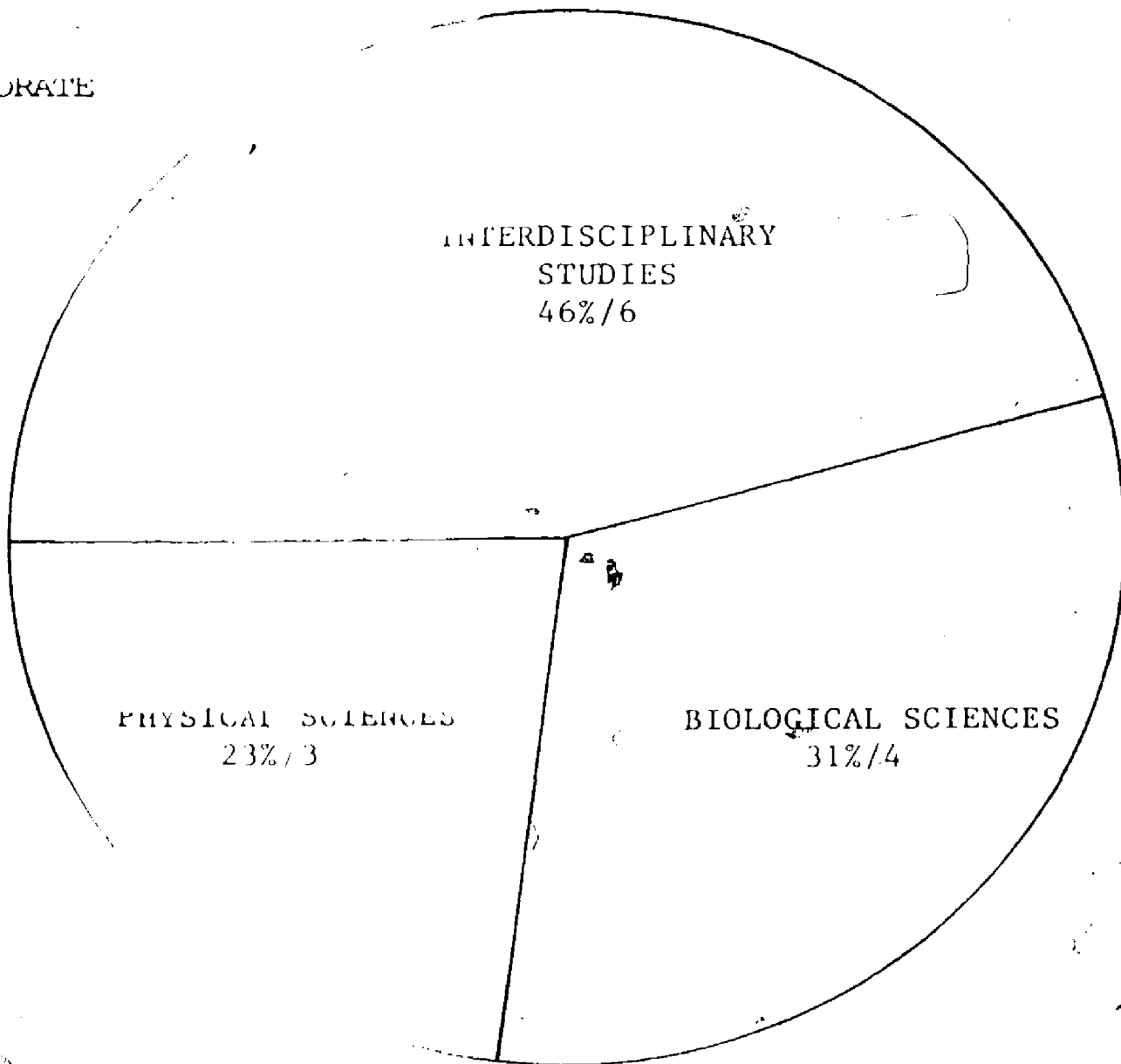


FIGURE 4

UNIVERSITY OF ALASKA, JUNEAU
CERTIFICATES AND DEGREES AWARDED

1978-79 to 1981-82

(PERCENTAGE/NUMBER)

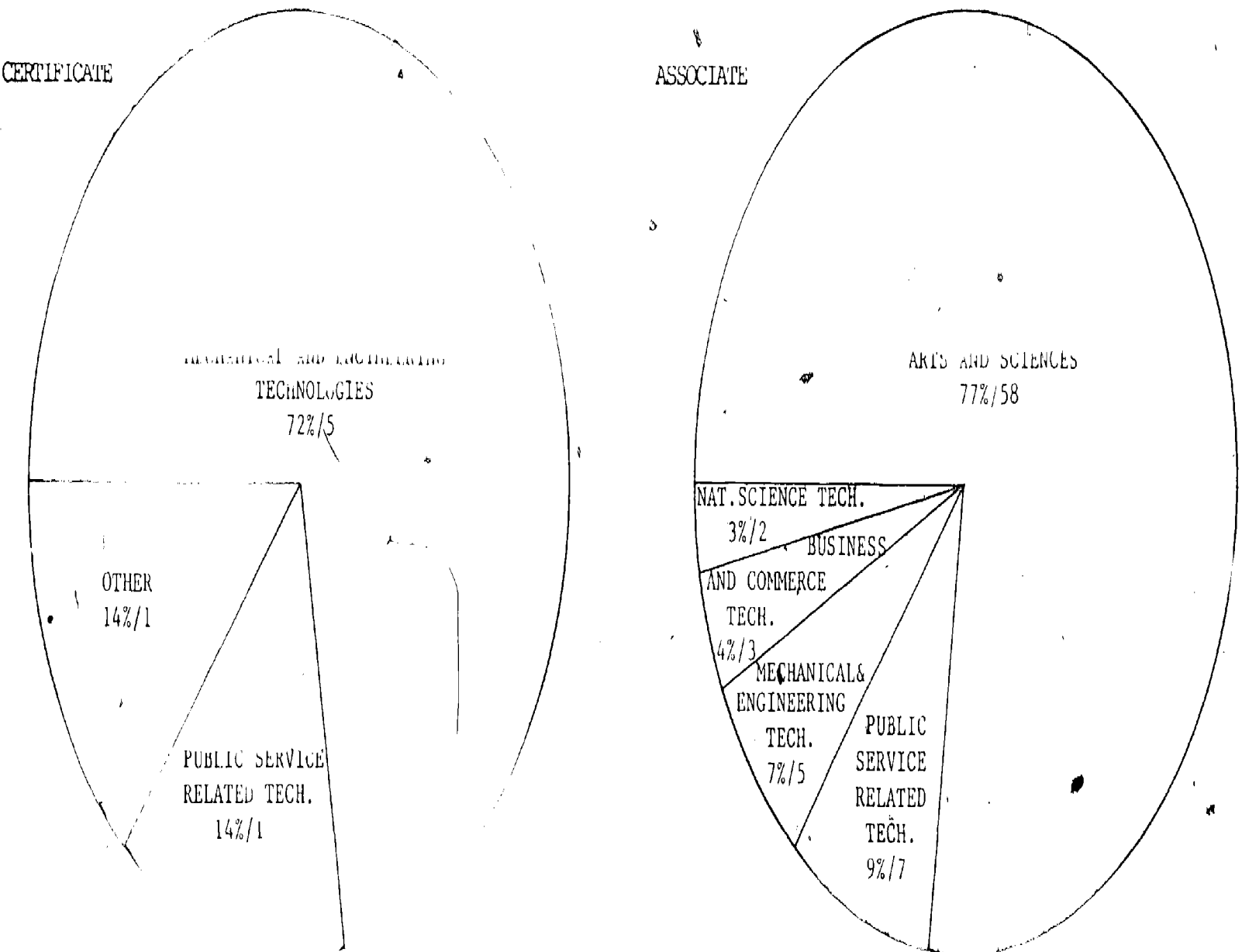


FIGURE 5

UNIVERSITY OF ALASKA, JUNEAU

CERTIFICATES AND DEGREES AWARDED

1978-79 to 1981-82

(PERCENTAGE/NUMBER)

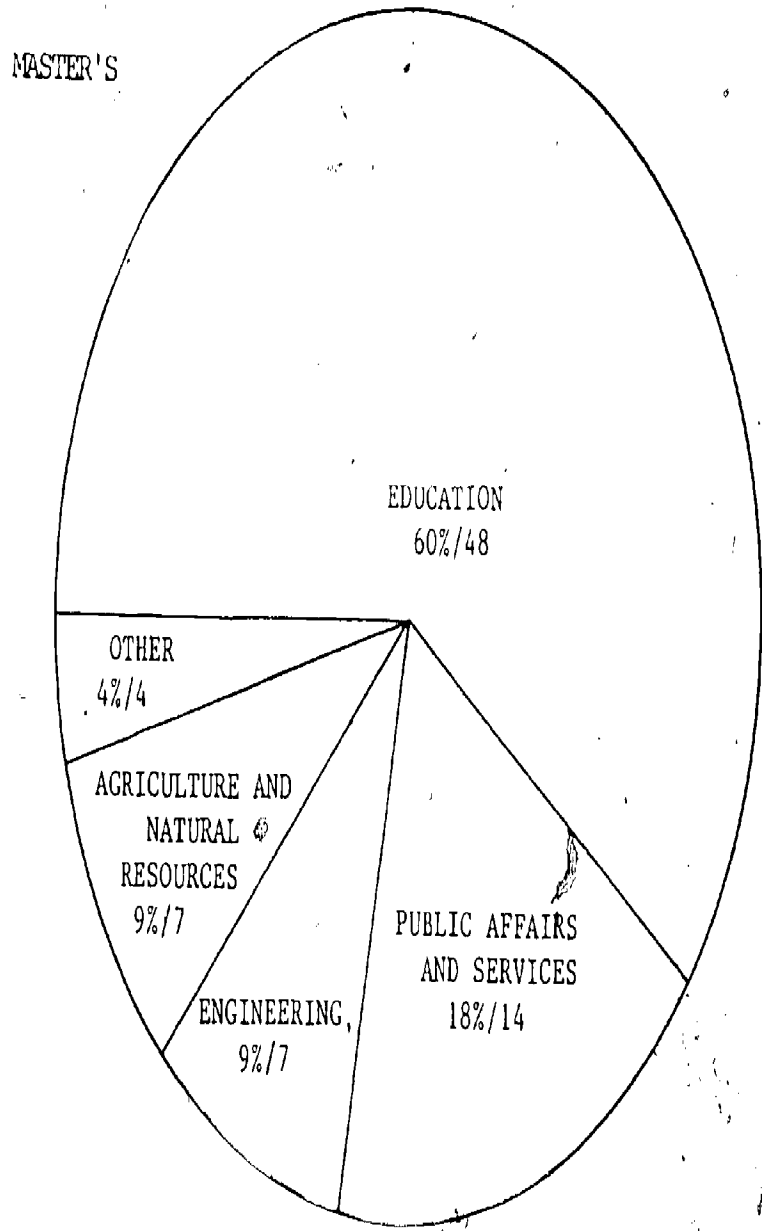
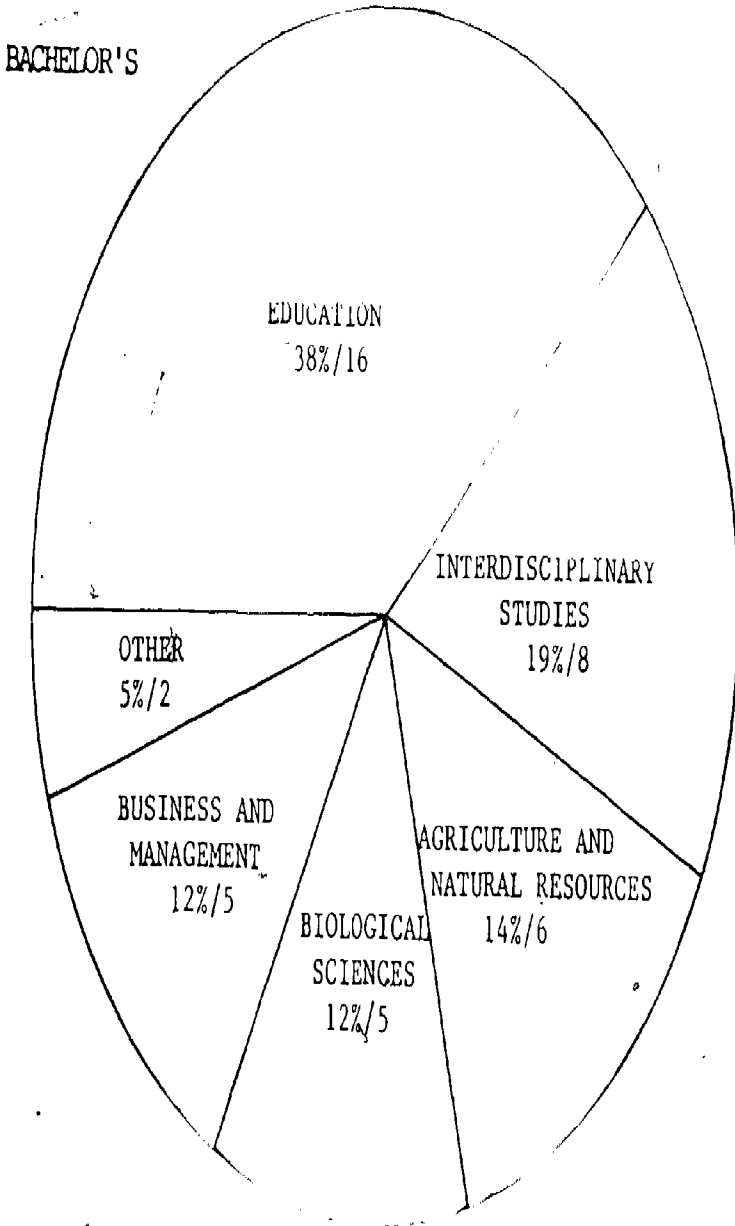


FIGURE 6

ANCHORAGE COMMUNITY COLLEGE

CERTIFICATES AND DEGREES AWARDED

1978-79 to 1981-82

(PERCENTAGE/NUMBER)

ASSOCIATE

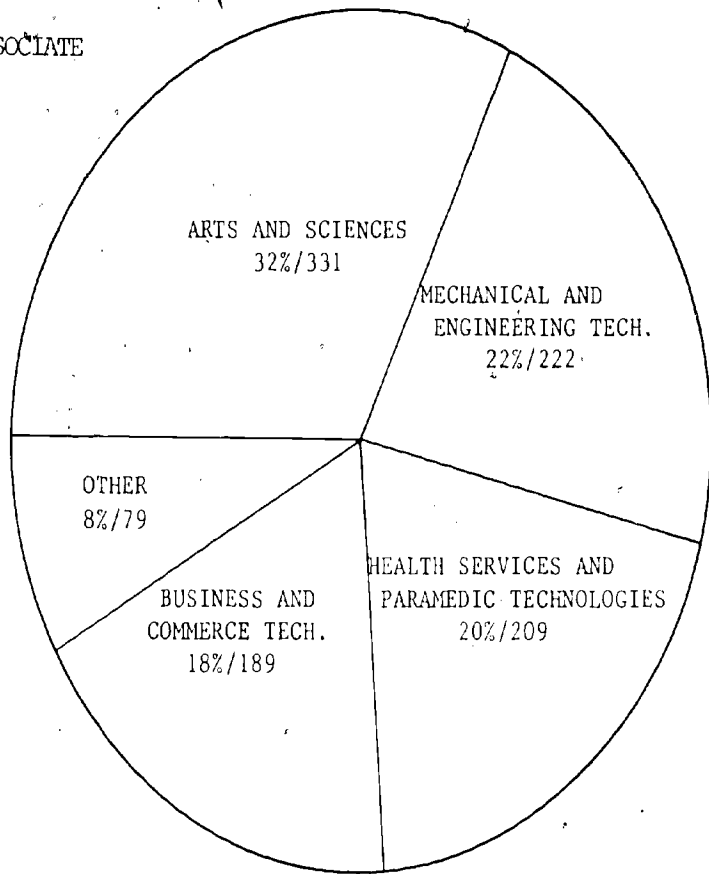
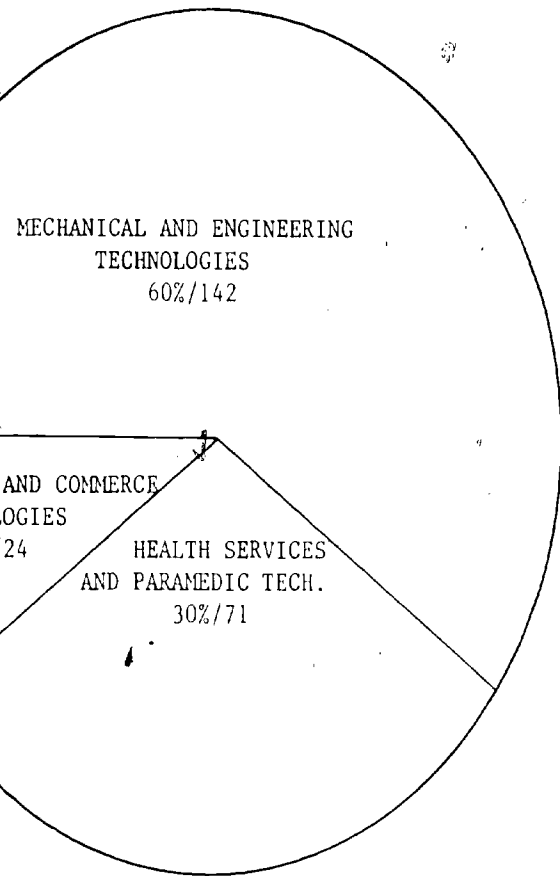
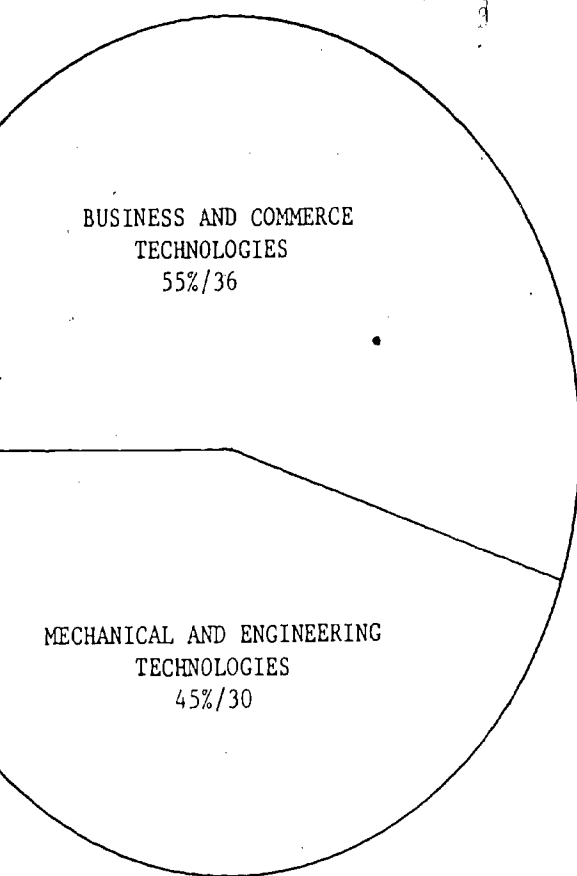


FIGURE 7
 KENAI PENINSULA COMMUNITY COLLEGE
 CERTIFICATES AND DEGREES AWARDED
 1978-79 to 1981-82
 (PERCENTAGE/NUMBER)



ASSOCIATE

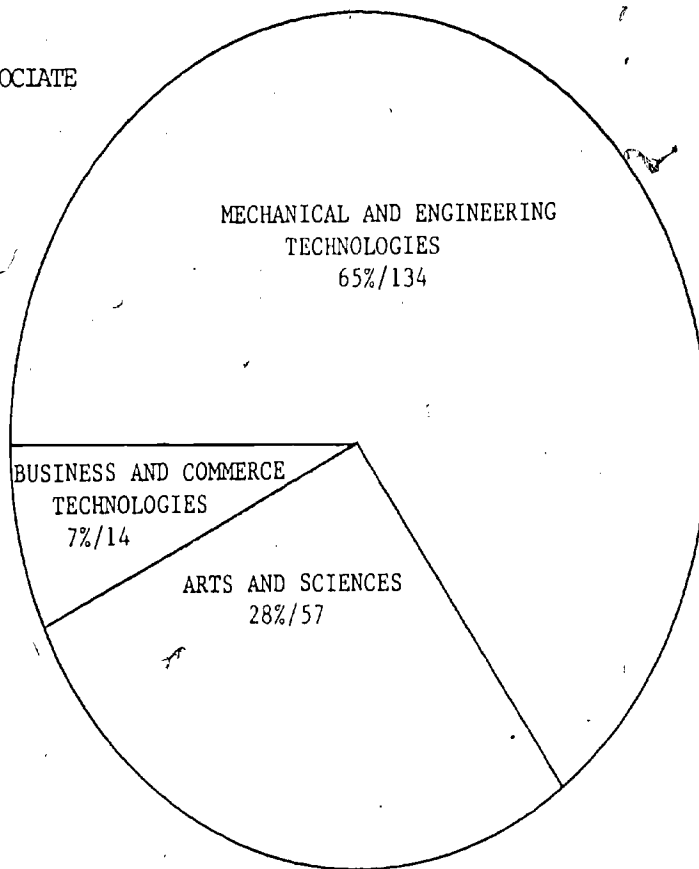


FIGURE 8

KETCHIKAN COMMUNITY COLLEGE

CERTIFICATES AND DEGREES AWARDED

1978-79 to 1981-82

(PERCENTAGE/NUMBER)

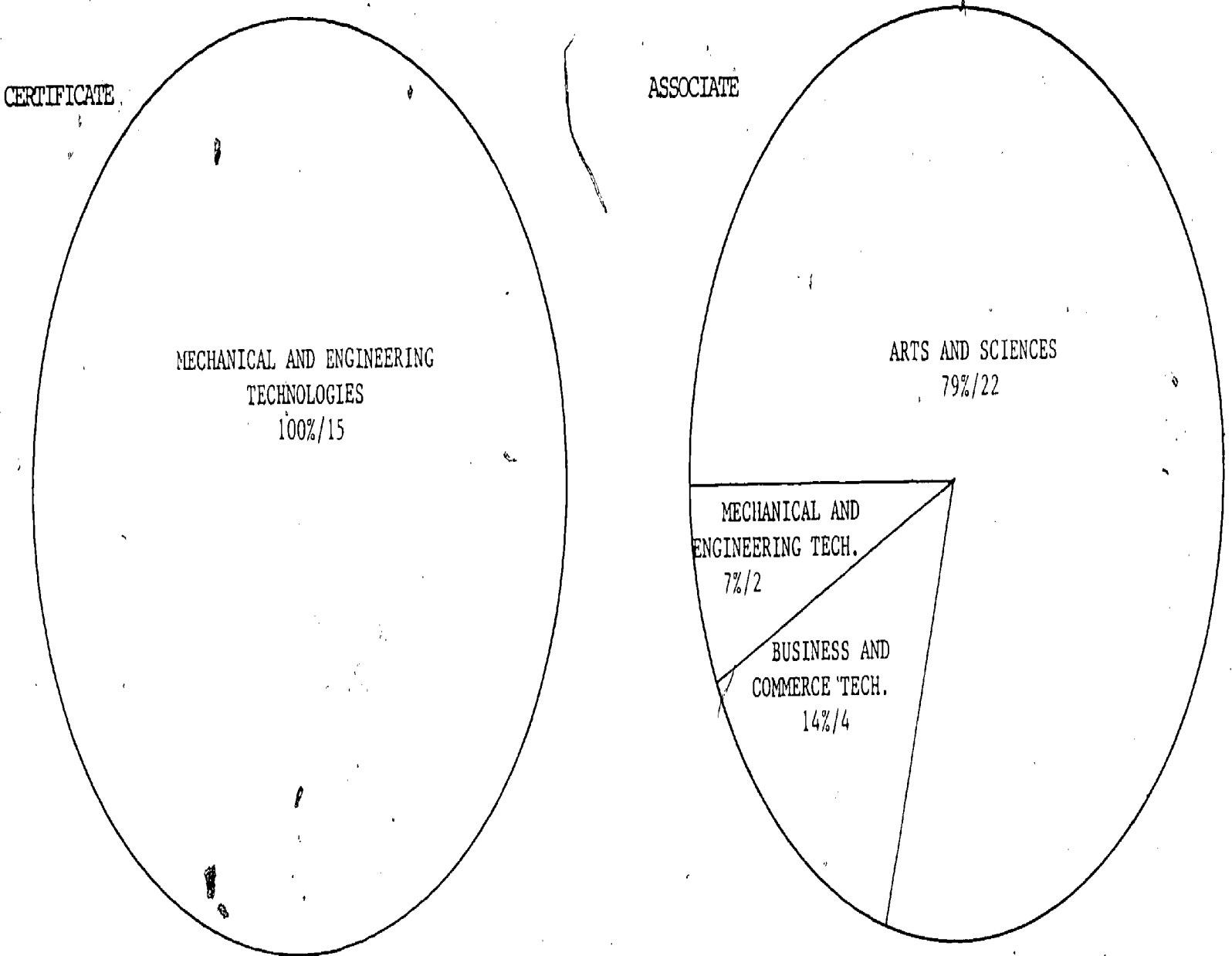


FIGURE 9
KODIAK COMMUNITY COLLEGE
CERTIFICATES AND DEGREES AWARDED
1978-79 to 1981-82
(PERCENTAGE/NUMBER)

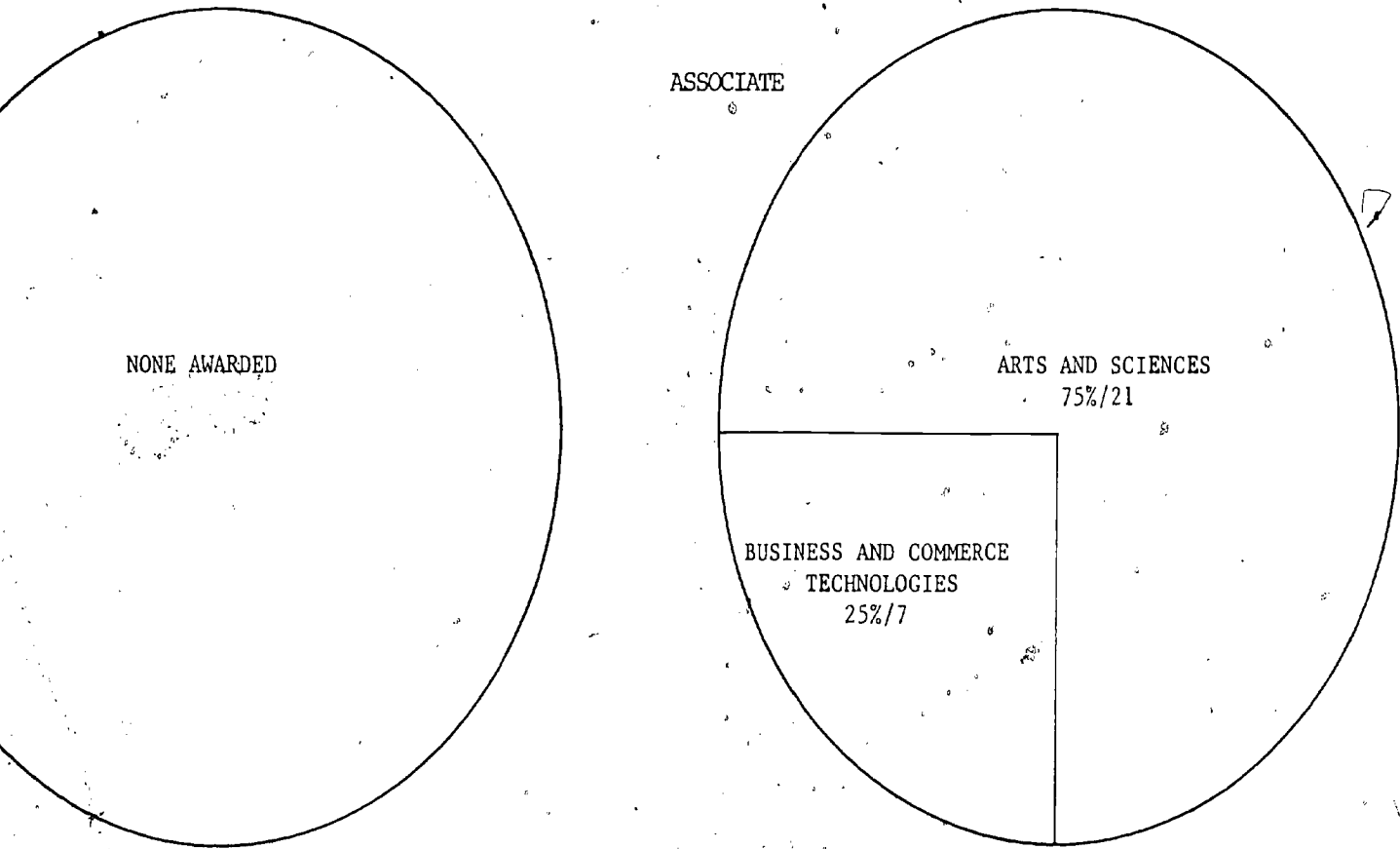
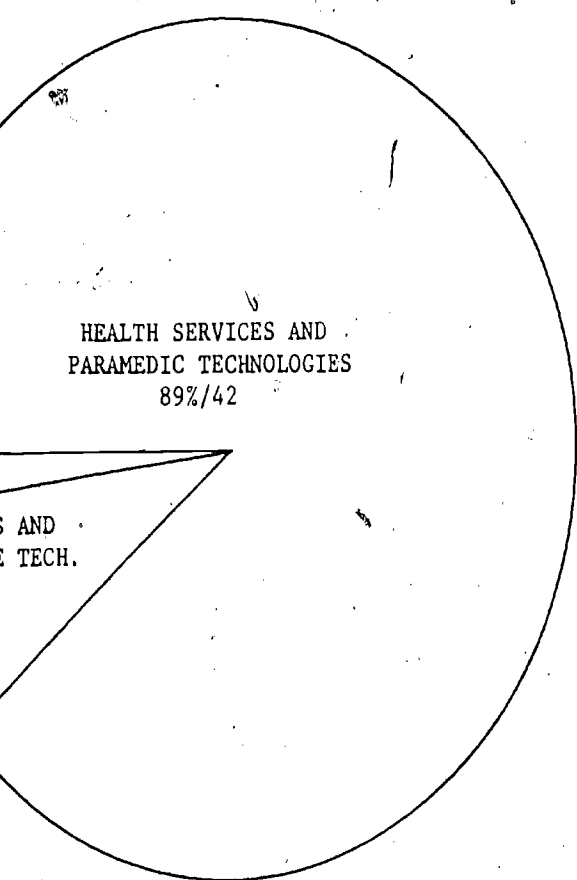
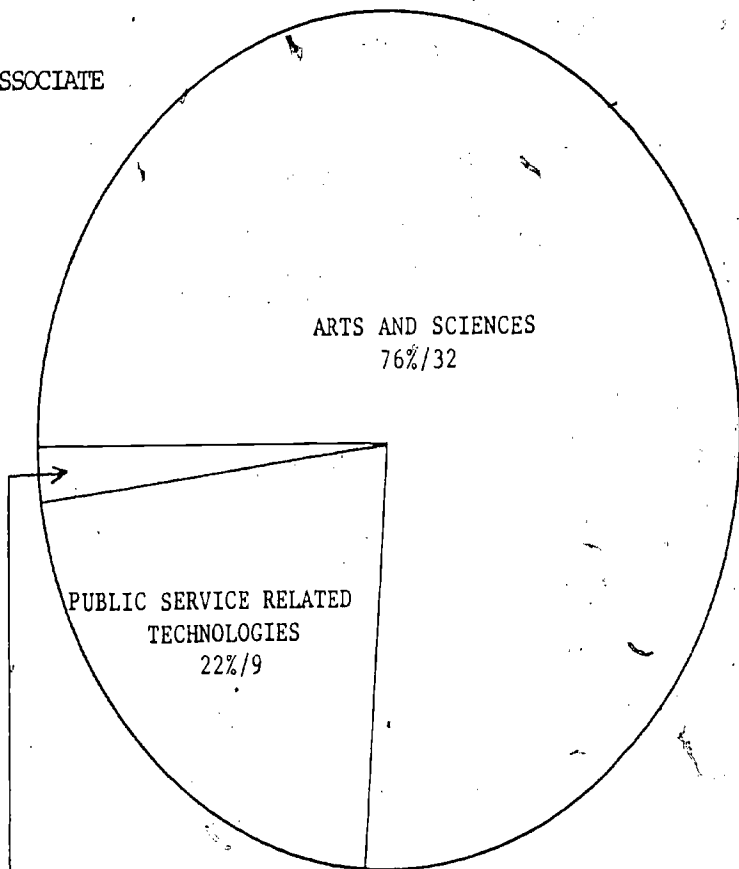


FIGURE 10
 KUSKOKWIM COMMUNITY COLLEGE
 CERTIFICATES AND DEGREES AWARDED
 1978-79 to 1981-82
 (PERCENTAGE/NUMBER)



ASSOCIATE



S AND
 E TECH.

PUBLIC SERVICE RELATED
 TECHNOLOGIES
 22%/9

AND ENGINEERING TECHNOLOGIES - 2%/1

HEALTH SERVICES AND PARAMEDIC TECHNOLOGIES - 7%/1

FIGURE 11

MATANUSKA-SUSTINA COMMUNITY COLLEGE

CERTIFICATES AND DEGREES AWARDED

1978-79 to 1981-82

(PERCENTAGE/NUMBER)

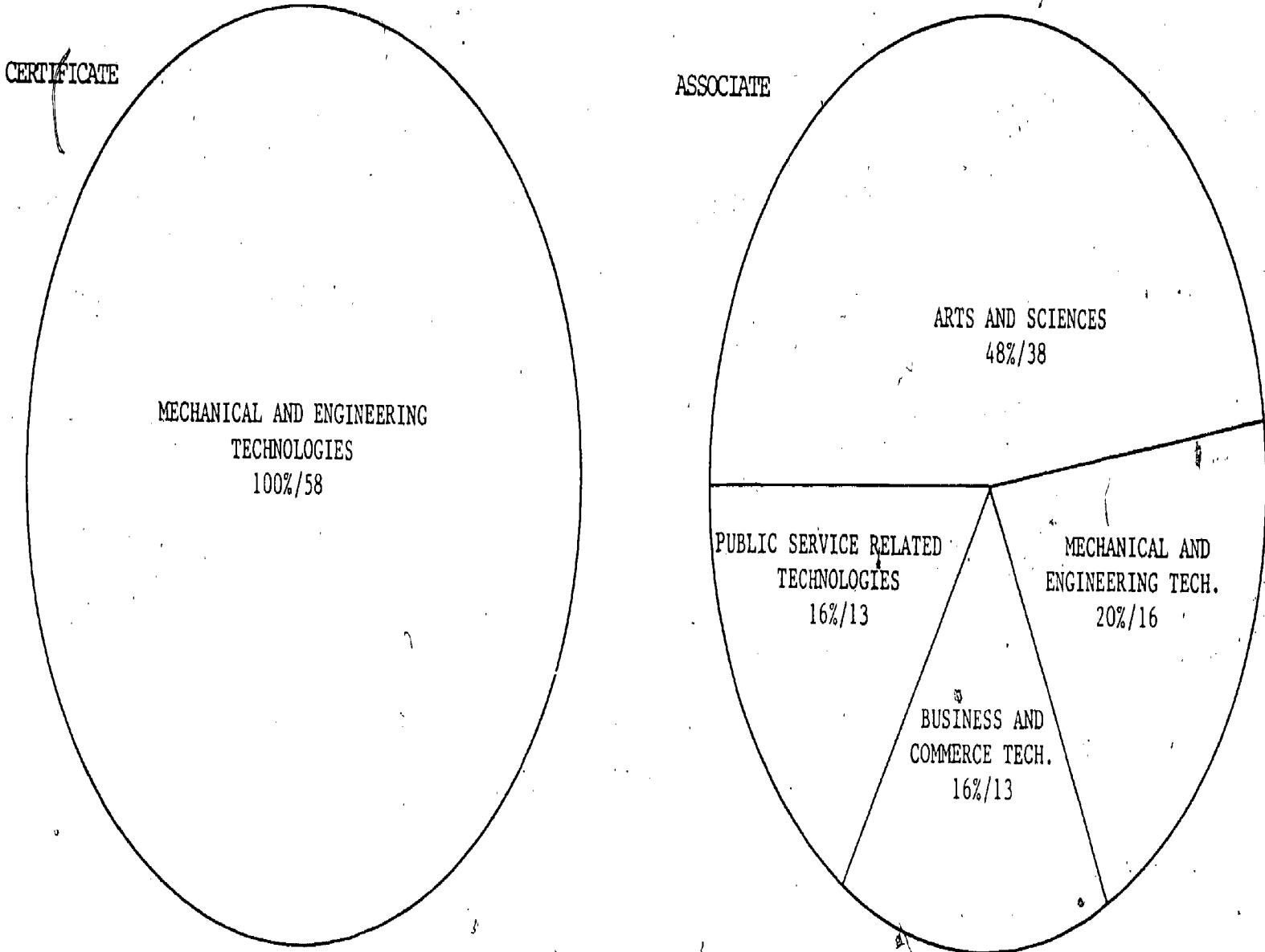


FIGURE 12

NORTHWEST COMMUNITY COLLEGE
CERTIFICATES AND DEGREES AWARDED

1978-79 to 1981-82

(PERCENTAGE/NUMBER)

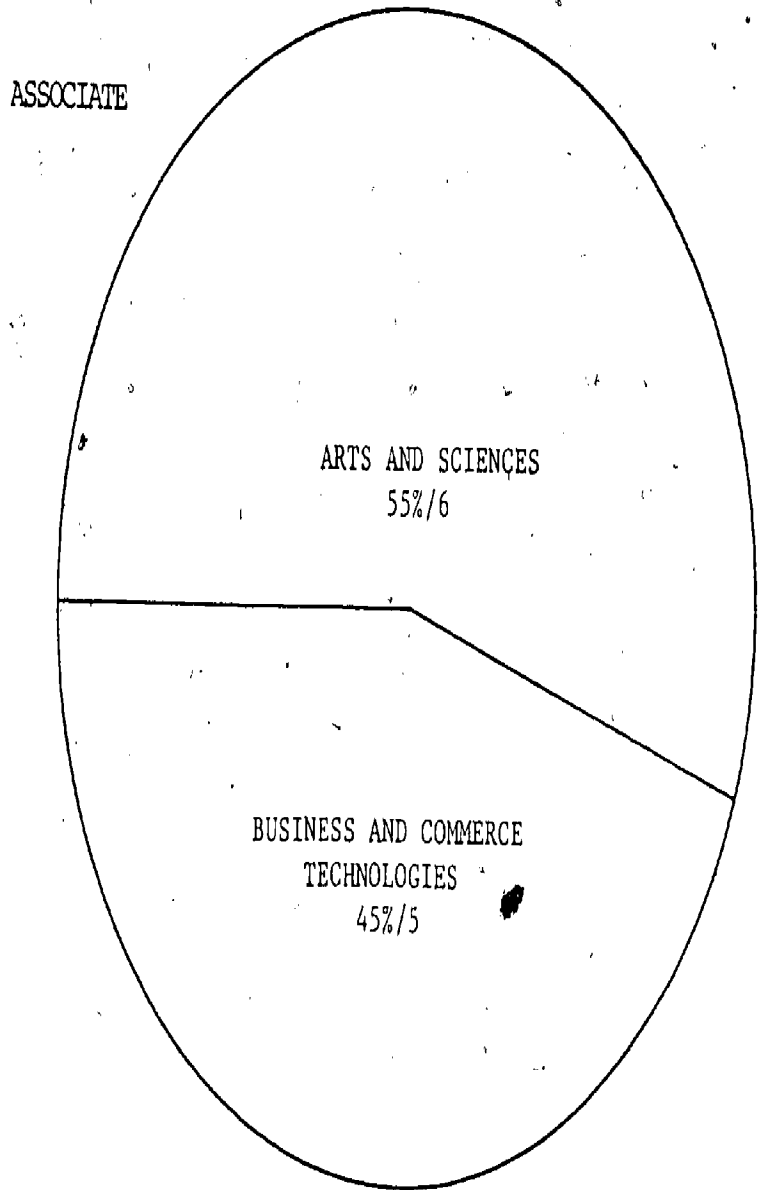
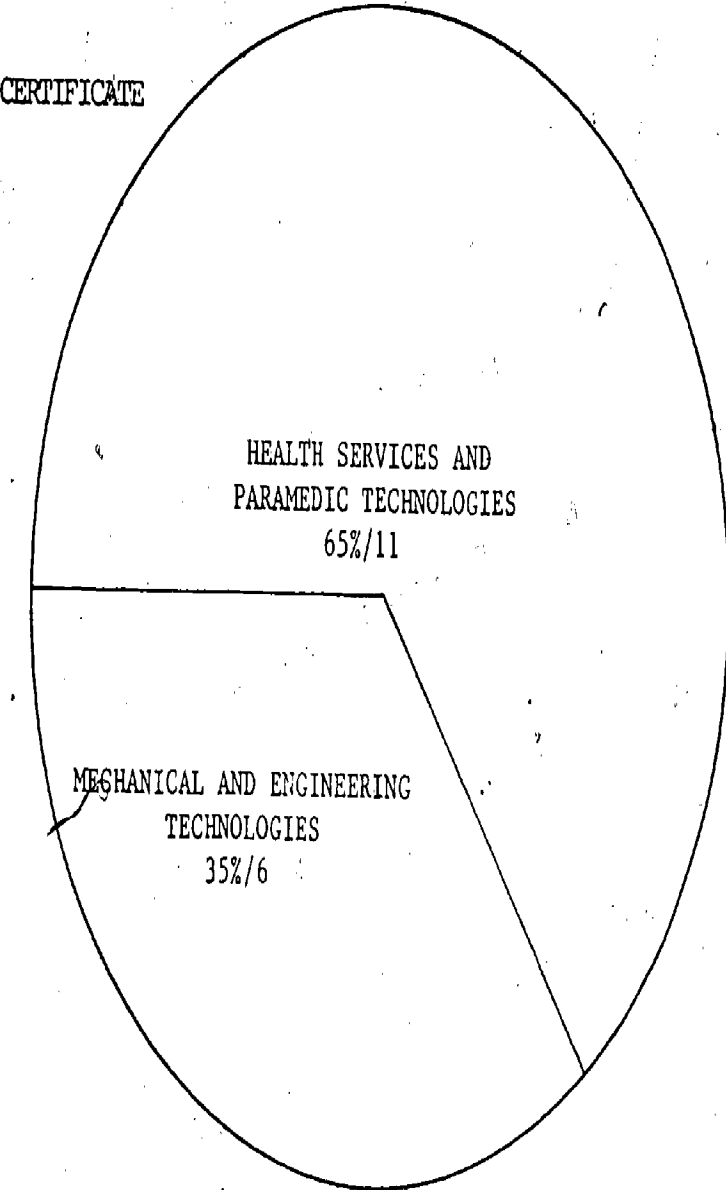


FIGURE 13

PRINCE WILLIAM SOUND COMMUNITY COLLEGE

CERTIFICATES AND DEGREES AWARDED

1978-79 to 1981-82

(PERCENTAGE/NUMBER)

CERTIFICATE

DEGREE

100%/11

ARTS AND SCIENCES
100%/11

FIGURE 14

SITKA COMMUNITY COLLEGE

CERTIFICATES AND DEGREES AWARDED

1978-79 to 1981-82

(PERCENTAGE/NUMBER)

CERTIFICATE

HEALTH SERVICES AND
PARAMEDIC TECHNOLOGIES
100%/4

ASSOCIATE

ARTS AND SCIENCES
59%/10

BUSINESS AND COMMERCE
TECHNOLOGIES
41%/7

71

FIGURE 15

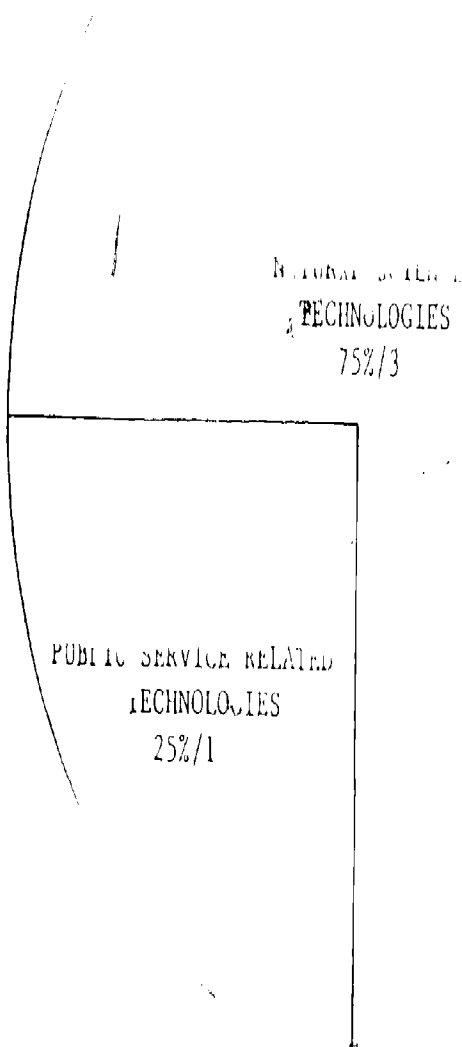
TANANA VALLEY COMMUNITY COLLEGE

CERTIFICATES AND DEGREES AWARDED

1978-79 to 1981-82

(PERCENTAGE/NUMBER)

CERTIFICATE



ASSOCIATE

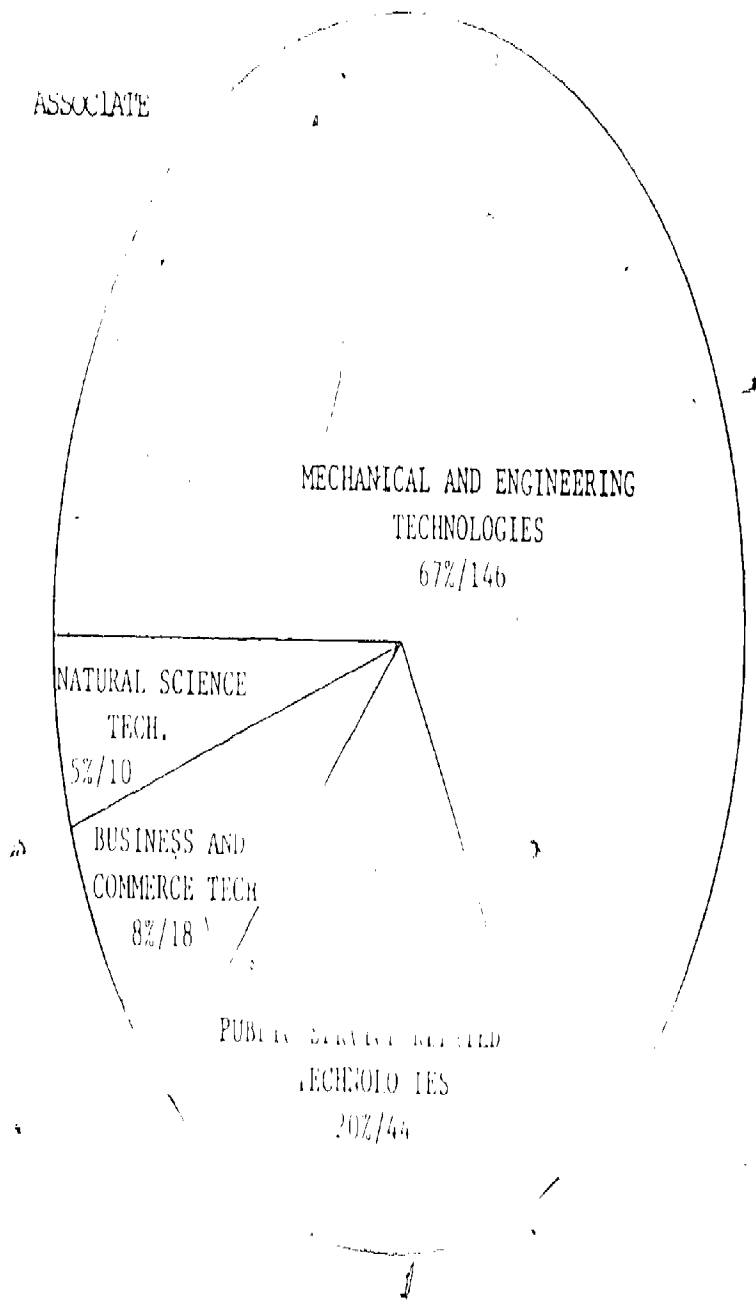


FIGURE 16
ALASKA VOCATIONAL-TECHNICAL CENTER
CERTIFICATES AND DEGREES AWARDED
1978-79 to 1981-82
(PERCENTAGE/NUMBER)

CERTIFICATES

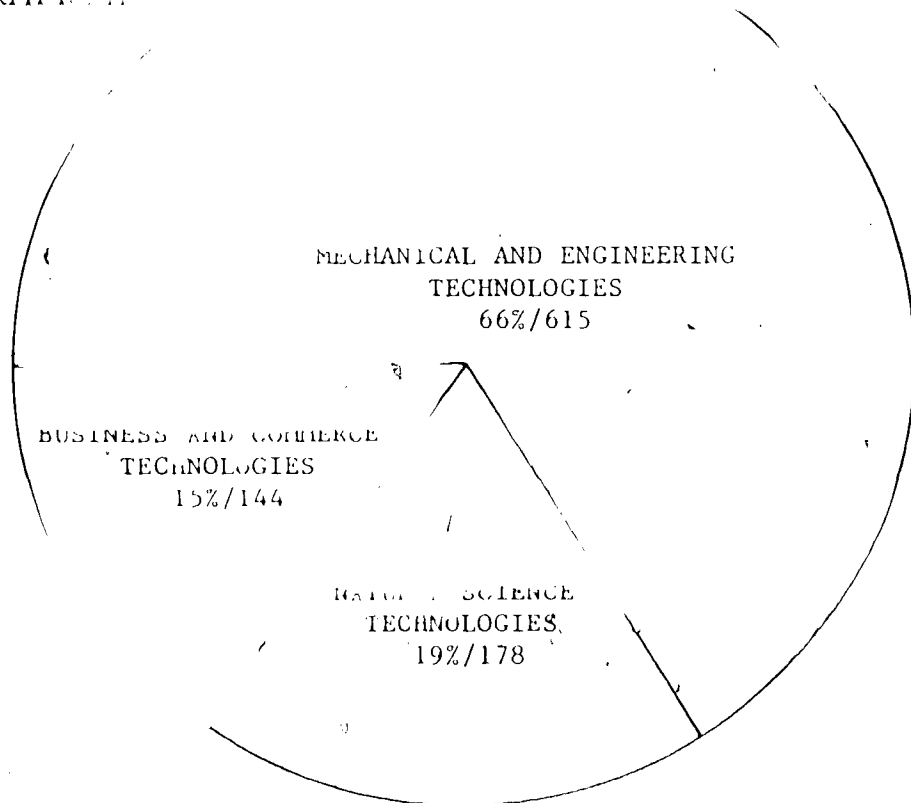


FIGURE 17

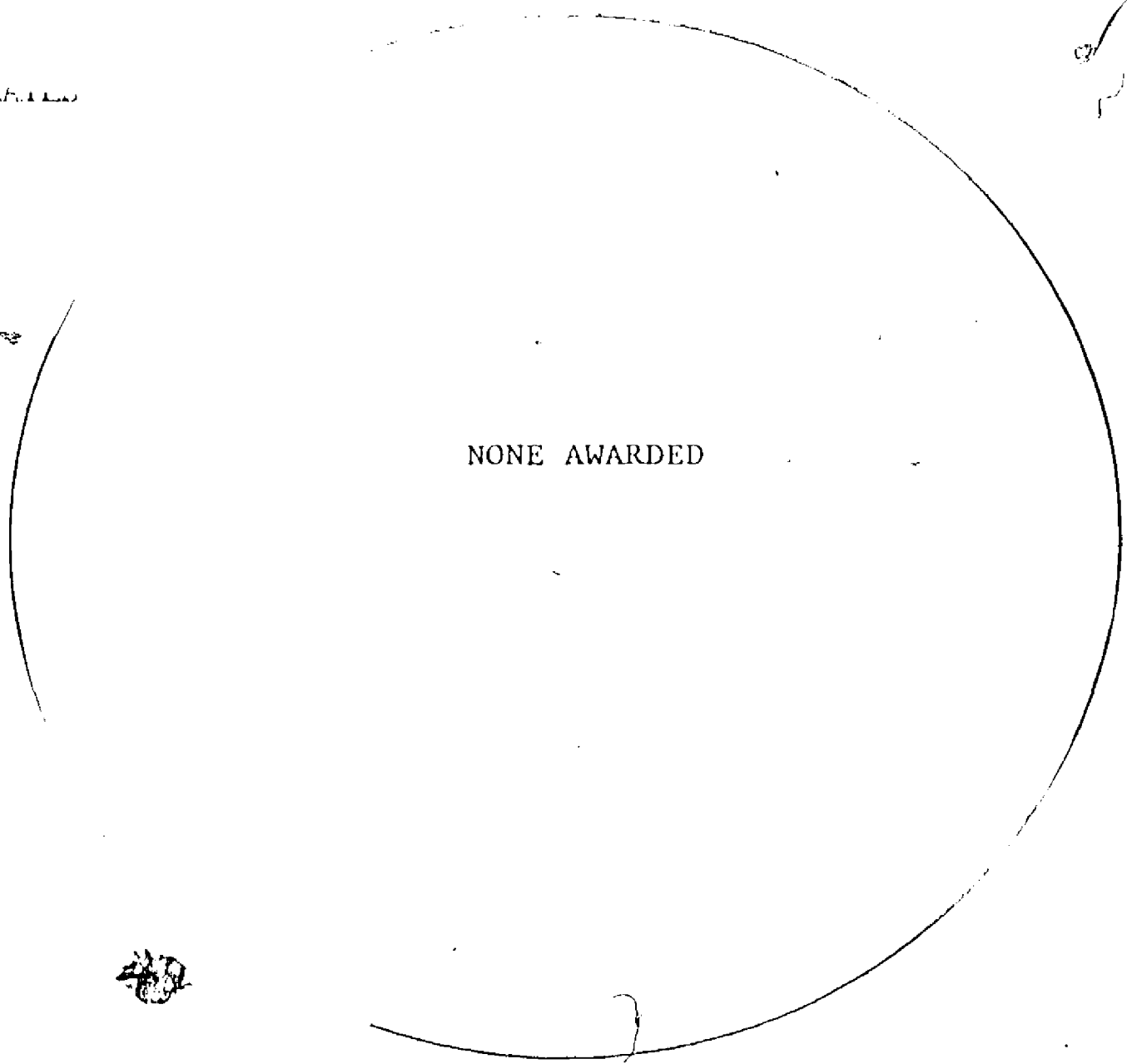
KOTZEBUE TECHNICAL CENTER

CERTIFICATES AND DEGREES AWARDED

1978-79 to 1981-82

(PERCENTAGE/NUMBER)

CERTIFICATE AWARDED



NONE AWARDED

FIGURE 18
ALASKA PACIFIC UNIVERSITY
CERTIFICATES AND DEGREES AWARDED
1978-79 to 1981-82
(PERCENTAGE/NUMBER)

ASSOCIATE

ARTS AND SCIENCES
100%/1

DEGREE AWARDED

FIGURE 19
 ALASKA PACIFIC UNIVERSITY
 CERTIFICATES AND DEGREES AWARDED
 1978-79 to 1981-82
 (PERCENTAGE/NUMBER)

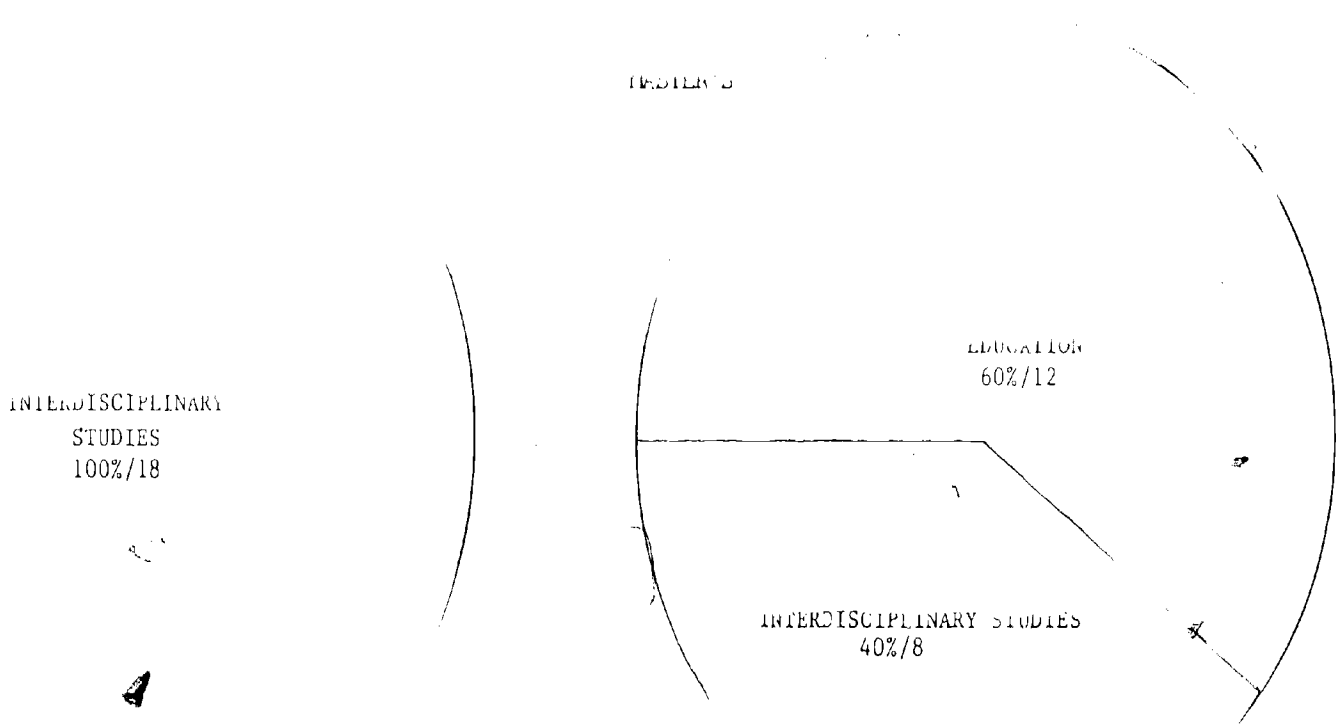


FIGURE 20
SHELDON JACKSON COLLEGE
CERTIFICATES AND DEGREES AWARDED
1978-79 to 1981-82
(PERCENTAGE/NUMBER)

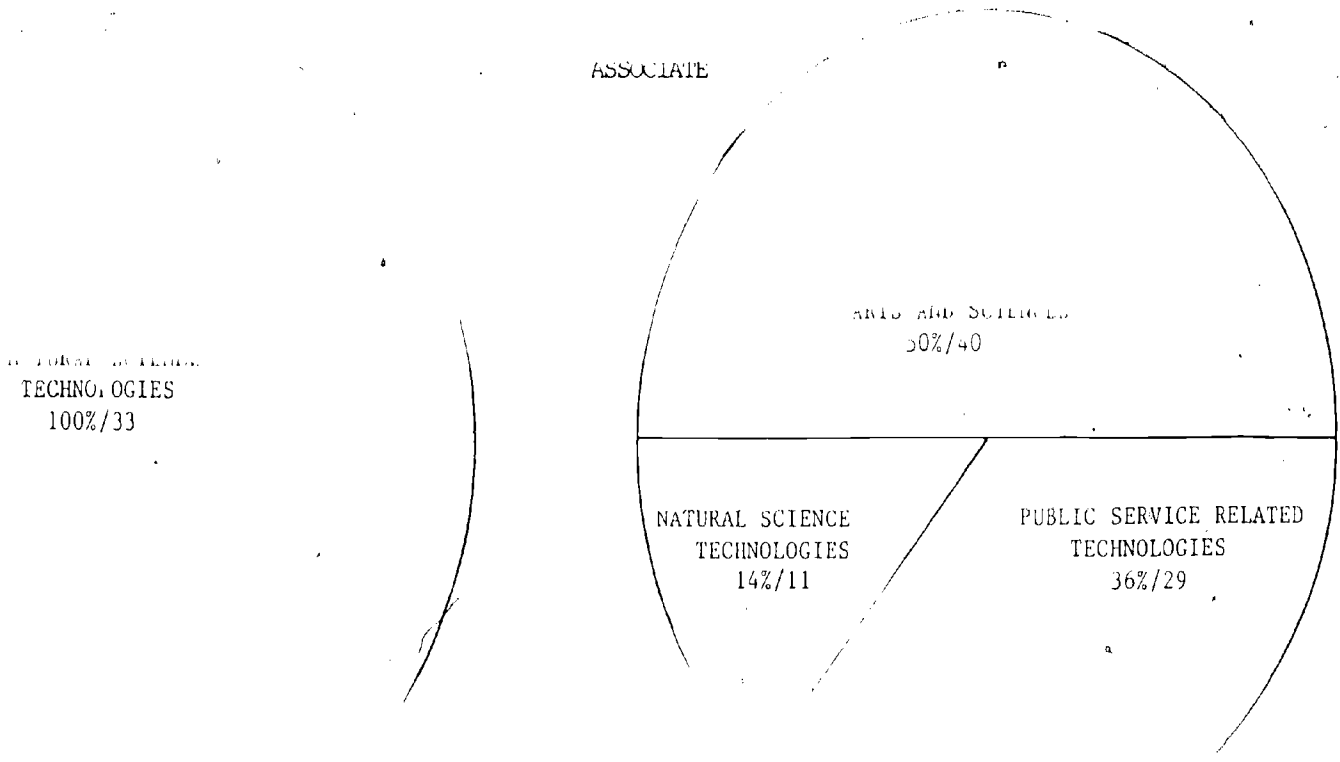


FIGURE 21
SHELDON JACKSON COLLEGE
CERTIFICATES AND DEGREES AWARDED
1978-79 to 1981-82
(PERCENTAGE/NUMBER)

BACHELOR'S

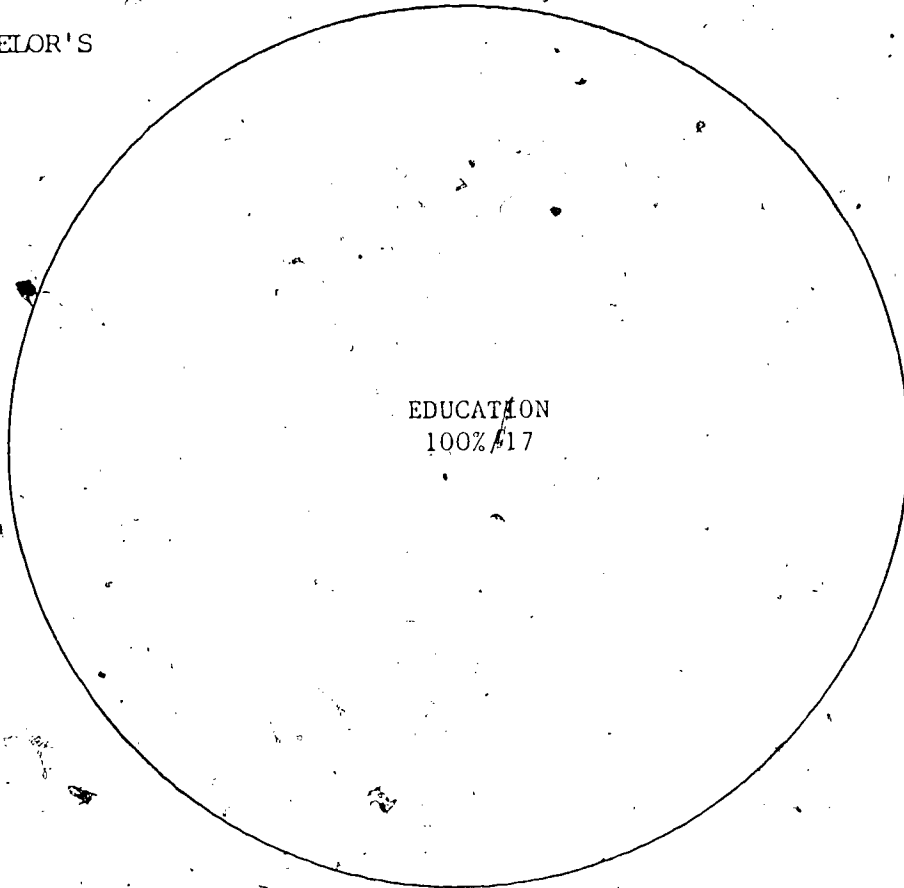


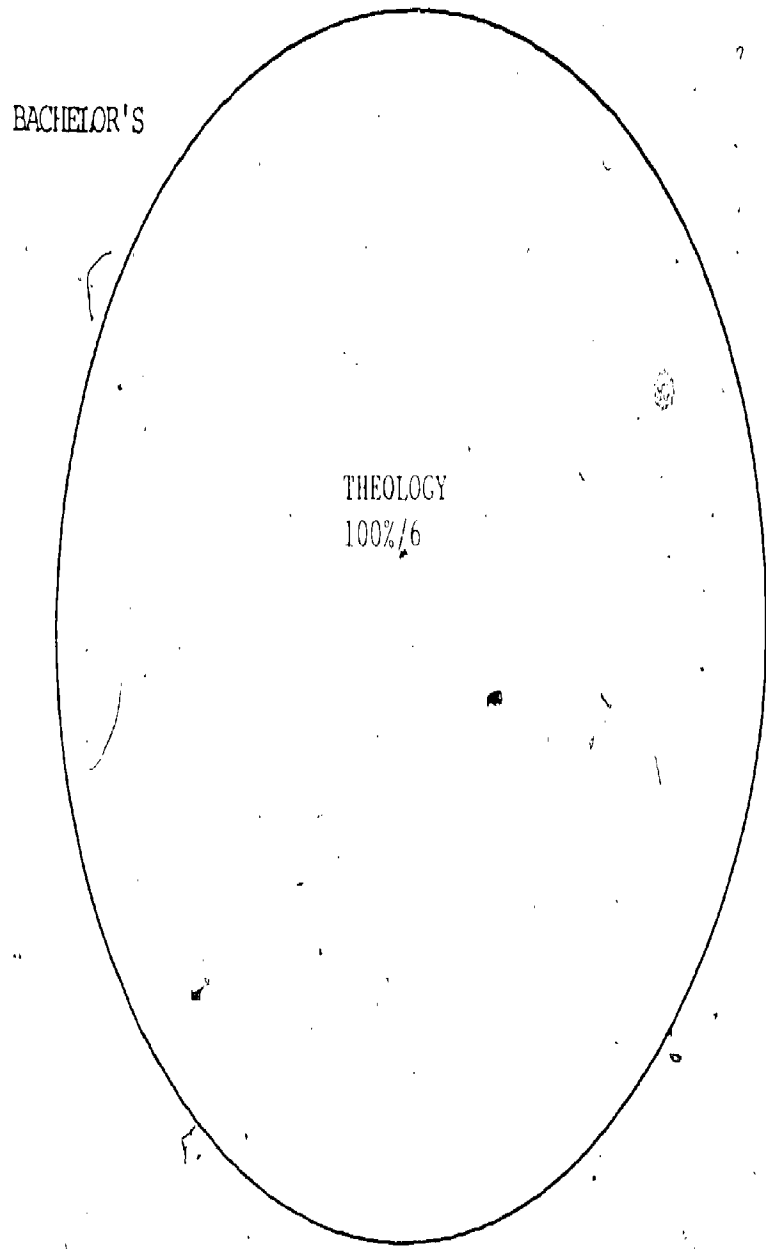
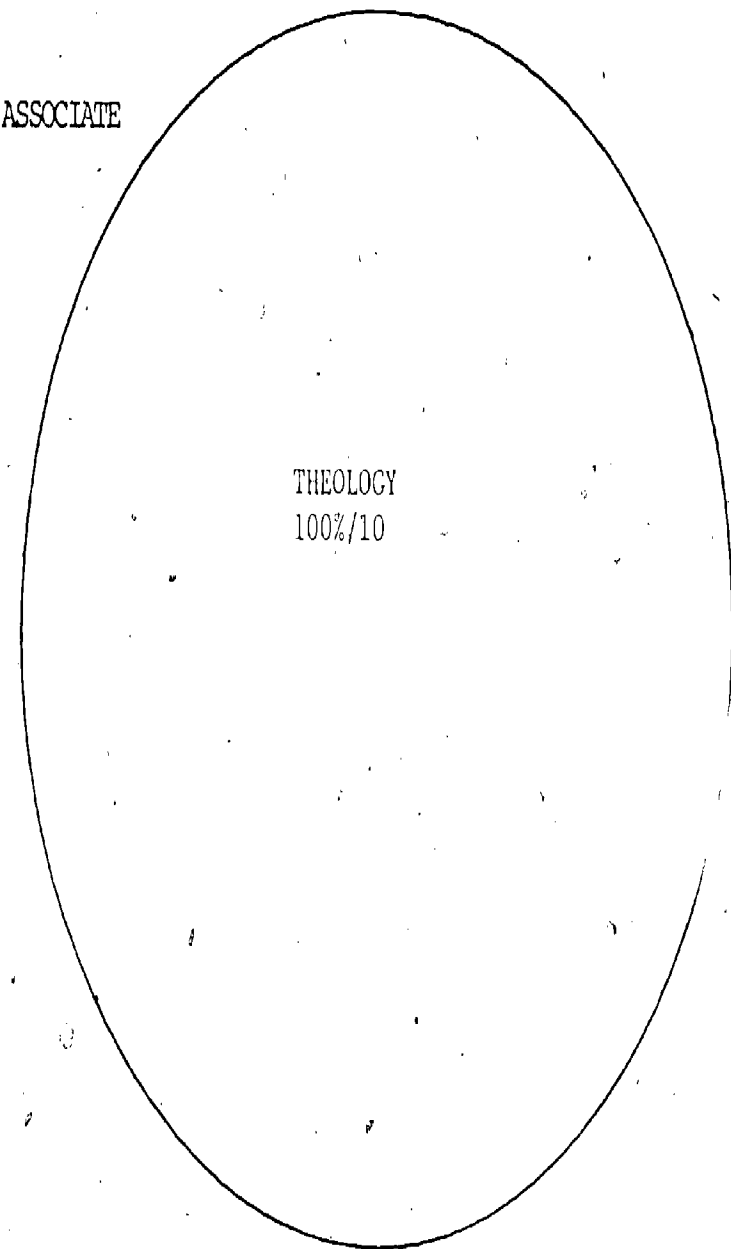
FIGURE 22

ALASKA BIBLE COLLEGE

CERTIFICATES AND DEGREES AWARDED

1978-79 to 1981-82

(PERCENTAGE/NUMBER)



SECTION IV

LISTING OF AWARDS BY PROGRAM AND
THE IDENTIFICATION OF UNDERPRODUCTIVE PROGRAMS

Before the listing of awards by program, some comments about underproductive programs and the entire concept of program review are in order.

Program Review

Program review serves several purposes. A primary purpose is resource reallocation. Others are to provide for quality control, to prevent substandard programs, to encourage good ones, and to assure that the mix of programs represents the most effective use of available resources statewide.² The basis for any program review is a clear and specific role and mission statement for each institution.³

Program review encompasses a wide variety of activities, but fundamentally it describes a process for the evaluation of programs that are already in existence. The types of criteria used in program review in postsecondary education are several. They include, but are not limited to, the number of graduates from the program over the last several years; the number of students enrolled in the program (entry and dropout rates); the size of classes and the cost of courses identified as elements integral to the program; cost per program graduate; faculty workload; program quality as reflected by its regional or national reputation; faculty qualifications; the level of position achieved by graduates of the program; the economies and improvements in quality to

²Postsecondary Education Program Review: Report of a WICHE-NCHEMS Workshop and Study (Boulder, Colorado: Western Interstate Commission for Higher Education, 1980), pp. 7-8.

³Ibid.

be achieved by consolidation and/or elimination of the program; general student interest and demand trends for the program; and the appropriateness of the program to a changed institutional role or mission.

An initial step in program review is the identification of the number of graduates in each program over several years. Degree productivity is the best single index which correlates meaningfully with enrollment of majors in the program, student demand, job market for graduates, and quality of the program.

Since it is not cost-effective to conduct a thorough investigation of every program in a reasonable amount of time, focusing upon degree productivity allows the institution to identify specific programs which may require modification. Identification of those programs that may be underproductive was determined by using the following criteria:

<u>Certificate or Degree</u>	<u>Program was established by:</u>	<u>Number of Graduates over a 4-year period was less than:</u>
Certificate	1978	4
Associate	1977	4
Bachelor's	1975	8
Master's	1977	4
Doctorate	1975	4

Several programs whose graduates are below the minimum criteria are not identified in Tables 8 through 25 as being underproductive for one of two reasons: 1) they have recently been deleted but have had graduates in the last four years or 2) they are new programs that are not subject to review. (Appendix III provides examples of criteria used by other states for the identification of underproductive programs.)

It should be noted that the University of Alaska chancellors, with their faculty, are presently in the process of determining which degree programs are undersubscribed. Special review emphasis was placed on programs with five or fewer degrees awarded over the last four years.

It should also be emphasized that the fact that a program falls below the minimum criteria also does not necessarily mean it is underproductive. For instance, a particular low-producing program may satisfy the needs of the state for a certain kind of specialist and it would be unwise to encourage more graduates in a limited job market. A program may provide a substantial number of service courses for another program of high productivity and eliminating the program may serve little purpose. Moreover, particularly at the certificate and associate degree levels, there is evidence that a significant portion of students find gainful employment before completing all of the course work and thus elect not to graduate.

In sum, the following remarks by Donald K. Smith provide a concise and persuasive rationale for program review.

"We must, as a matter of expressing our commitment to the uses of knowledge for the betterment of the human condition, look steadily and forthrightly at all of our existing programs. And we must be ready and able to make hard decisions about the future, or future direction of those programs."⁵

Table 7 provides a listing of those instructional programs that may be underproductive. Seventy-nine programs were identified. Since Alaska Pacific University was closed during 1976-1977, none of their programs has been in existence long enough to be considered underproductive. It should be noted, however, that of those institutions that have been operating long enough, only Anchorage Community College, Alaska Vocational-Technical Center, and Sheldon Jackson College had no programs that could be considered underproductive.

⁵Donald K. Smith, Academic Program Audit and Review as a Means of Resource Reallocations, paper presented at a Seminar for State Leaders in Postsecondary Education, December, 1975 (Denver, Colorado: Education Commission of the State, 1975), p. 3.

Table 7
Underproductive Programs

<u>Institutions</u>	<u>Program Taxonomy</u>	<u>Program</u>	<u>Formal Award</u>	<u>Number of Graduates from 1978-79 to 1981-82</u>
UAA	0832	Music Education - Elementary	B	1
UAA	0832	Music Education - Secondary	B	2
UAA	1004	Music Performance	B	1
UAA	1005	Music	B	6
UAA	1905	Chemistry	B	2
UAA	0511	Real Estate	M	2
UAA	0922	Environmental Quality Engineering	M	1
UAA	0922	Environmental Quality Science	M	2
UAA	1507	Creative Writing	M	0
UAF	0307	Russian Studies	B	1
UAF	0399	Northern Studies	B	3
UAF	0823	Early Childhood Education	B	6
UAF	0832	Music Education	B	2
UAF	0832	Music Education - Elementary	B	1
UAF	0832	Music Education - Secondary	B	5
UAF	1004	Music Performance	B	5
UAF	1007	Theater	B	6
UAF	1101	Foreign Languages	B	4
UAF	1199	Inupiaq Eskimo	B	3
UAF	1199	Yupik Eskimo	B	3
UAF	1505	Linguistics	B	1
UAF	1506	Speech Communication	B	6
UAF	1509	Philosophy	B	4
UAF	1902	Applied Physics	B	0
UAF	1917	Earth Science	B	3
UAF	2299	Geography and Regional Development	B	0
UAF	4902	General Science	B	6
UAF	4903	Humanities	B	6
UAF	0802	Elementary Education	M	2
UAF	0803	Secondary Education	M	2
UAF	0826	College Student Personnel Administration	M	3
UAF	0826	Guidance & Counseling	M	3
UAF	0909	Electrical Engineering	M	0
UAF	0913	Science Management	M	3
UAF	0918	Mining Engineering	M	2
UAF	0922	Environmental Quality Engineering	M	2
UAF	0922	Environmental Quality Science	M	3
UAF	0999	Arctic Engineering	M	1
UAF	1704	Mathematics	M	2
UAF	1902	Physics	M	2
UAF	4902	General Science	M	1

<u>Institutions</u>	<u>Program Taxonomy</u>	<u>Program</u>	<u>Formal Award</u>	<u>Number of Graduates from 1978-79 to 1981-82</u>
UAF	0107	Wildlife Management	D	0
UAF	1902	Physics	D	0
UAF	1999	Geology and Geophysics	D	2
UAJ	5002	Accounting Clerk	C	0
UAJ	5307	Diesel Mechanics	C	0
UAJ	5317	Marine Carpentry	C	0
UAJ	5317	Woods/Construction	C	0
UAJ	5399	Marine Engine Repair	C	0
UAJ	5503	Early Childhood Education	C	1
UAJ	5399	Power Technology	A	0
UAJ	5406	Marine Technology	A	2
UAJ	0506	Business Administration	M	2
UAJ	0913	Science Management	M	0
KPCC	5600	Business Administration	A	0
KCC	5005	Clerk Typist	C	0
KCC	5005	Stenographer	C	0
KCC	5307	Diesel Technology	A	2
KOCC	5005	Office Occupations	C	0
KOCC	5405	Home Economics	C	0
KOCC	5005	Office Occupations	A	1
KOCC	5499	Commercial Fishing	A	0
KOCC	5499	Seafood Processing	A	0
KOCC	5600	Justice	A	2
KUCC	5299	Community Health Practitioner	A	1
KUCC	5600	Yupik Language	A	0
MSCC	5005	Secretarial Studies	A	0
NWCC	5001	Business	C	0
NWCC	5600	Education	C	0
NWCC	5600	Art	A	0
SCC	5002	Accounting Clerk	C	0
SCC	5005	Clerk Typist	C	0
TVCC	5005	Office Occupations	C	0
TVCC	5404	Food Service Baking Technology	C	3
TVCC	5507	Fire Science Technology	C	1
TVCC	5004	Business Supervision	A	2
TVCC	5303	Graphic Arts & Design	A	2
TVCC	5405	Family Living - Management	A	0
ABC	2301	Theological Professions, General	B	6

Tables 8 through 25 provide a detailed listing of all programs leading to a formal award for each postsecondary institution from 1978-79 to 1981-82. Those programs that may be underproductive are shaded.

On December 11, 1981 the Board of Regents of the University of Alaska approved a change in the Associate of Arts degree which mandated one common set of distribution requirements (courses required for completion of the A.A. degree) throughout the system. This resulted in the deletion of several A.A. degree programs with particular areas of emphasis such as art, history, mathematics and psychology.

TABLE 8
Degrees Awarded
UNIVERSITY OF ALASKA - ANCHORAGE

Level: Bachelor's

Program Taxonomy	Program Name	Number of Graduates				
		78-79	79-80	80-81	81-82	Total
0400	BIOLOGICAL SCIENCES					
0401	Biological Science	0	9	7	8	24
	TOTAL	0	9	7	8	24
0500	BUSINESS & MANAGEMENT					
0501	Business	0	0	0	2	2
0506	Business Administration	34	35	28	46	143
	TOTAL	34	35	28	48	145
0600	COMMUNICATIONS					
0699	Journalism & Public Communications	2	3	1	8	14
	TOTAL	2	3	1	8	14
0700	COMPUTER & INFORMATION SCIENCES					
0701	Computer Science	0	0	0	0	0
	TOTAL	0	0	0	0	0
0800	EDUCATION					
0801	Education (deleted)	0	2	1	0	3
0802	Elementary Education	22	14	19	17	72
0803	Secondary Education	2	2	4	5	13
0832	Music Education - Elementary	0	0	0	1	1
0832	Music Education - Secondary	0	0	0	2	2
0835	Physical Education	0	0	0	3	3
	TOTAL	24	18	24	28	94
0900	ENGINEERING					
0908	Civil Engineering	0	0	0	0	0
	TOTAL	0	0	0	0	0
1000	FINE & APPLIED ARTS					
1002	Art	6	12	5	10	33
1004	Music Performance	0	1	0	0	1
1005	Music	2	0	1	3	6
1007	Theater	0	0	2	0	2
	TOTAL	8	13	8	13	42

may be underproductive

TABLE 8 (continued)
Degrees Awarded
UNIVERSITY OF ALASKA - ANCHORAGE

Level: Bachelor's (cont.)

Program Taxonomy	Program Name	Number of Graduates				
		78-79	79-80	80-81	81-82	Total
1200	HEALTH PROFESSIONS					
1203	Nursing Science	21	35	28	49	133
1223	Medical Technology	0	0	1	1	2
	TOTAL	21	35	29	50	135
1500	LETTERS					
1501	English	6	5	1	9	21
	TOTAL	6	5	1	9	21
1700	MATHEMATICS					
1701	Mathematics	2	4	6	5	17
	TOTAL	2	4	6	5	17
1900	PHYSICAL SCIENCE					
1905	Chemistry	0	1	0	1	2
	TOTAL	0	1	0	1	2
2000	PSYCHOLOGY					
2001	Psychology	20	13	21	12	66
	TOTAL	20	13	21	12	66
2100	PUBLIC AFFAIRS & SCIENCES					
2104	Social Work	2	2	12	11	27
2105	Justice	0	7	7	7	21
	TOTAL	2	9	19	18	48
2200	SOCIAL SCIENCES					
2202	Anthropology	5	7	3	8	23
2204	Economics	2	2	2	3	9
2205	History	9	4	4	2	19
2207	Political Science	8	1	4	8	21
2208	Sociology	4	10	4	5	23
	TOTAL	28	24	17	26	95

may be underproductive

TABLE 8 (continued)
 Degrees Awarded
 UNIVERSITY OF ALASKA - ANCHORAGE

Level: Bachelor's (cont.)

Program Taxonomy	Program Name	Number of Graduates				Total
		78-79	79-80	80-81	81-82	
4900	INTERDISCIPLINARY STUDIES					
4902	Natural Science	0	3	3	4	10
4999	Interdisciplinary Studies	11	0	2	1	14
	TOTAL	11	3	5	5	24
	OTHER	8	0	0	0	8
	TOTAL	8	0	0	0	8
	TOTAL BACHELOR'S DEGREES AWARDED	166	172	166	231	735

Level: Master's

Program Taxonomy	Program Name	Number of Graduates				Total
		78-79	79-80	80-81	81-82	
0200	ARCHITECTURE & ENVIRONMENTAL DESIGN					
0206	Planning	0	0	0	0	0
	TOTAL	0	0	0	0	0
0400	BIOLOGICAL SCIENCES					
0401	Biological Science	0	0	0	0	0
	TOTAL	0	0	0	0	0
0500	BUSINESS & MANAGEMENT					
0506	Business Administration	1	4	6	5	16
0511	Real Estate	0	0	1	1	2
0515	Human Resources Mgmt. (deleted)	0	0	0	2	2
	TOTAL	1	4	7	8	20
0800	EDUCATION					
0801	Education	44	53	38	35	170
	TOTAL	44	53	38	35	170

may be underproductive

TABLE 8 (continued)
 Degrees Awarded
 UNIVERSITY OF ALASKA - ANCHORAGE

Level: Master's (cont.)

Program Taxonomy	Program Name	Number of Graduates.				Total
		78-79	79-80	80-81	81-82	
0900	ENGINEERING					
0908	Civil Engineering	0	2	3	2	7
0913	Engineering Management	2	5	14	3	24
0913	Science Management	3	3	0	0	6
0922	Environmental Quality Engineering	0	1	0	0	1
0922	Environmental Quality Science	0	0	1	1	2
0999	Arctic Engineering	0	0	0	2	2
	TOTAL	5	11	18	8	42
1200	HEALTH PROFESSIONS					
1203	Nursing Science	0	0	0	0	0
	TOTAL	0	0	0	0	0
1500	LETTERS					
1501	English	0	5	1	3	9
1507	Creative Writing	0	0	0	0	0
	TOTAL	0	5	1	3	9
2000	PSYCHOLOGY					
2004	Counseling Psychology	6	4	6	13	29
	TOTAL	6	4	6	13	29
2100	PUBLIC AFFAIRS & SERVICES					
2102	Public Administration	15	4	7	6	32
	TOTAL	15	4	7	6	32
4900	INTERDISCIPLINARY STUDIES					
4909	Interdisciplinary Studies	1	2	1	0	4
	TOTAL	1	2	1	0	4
	TOTAL MASTER'S DEGREES AWARDED	72	83	78	73	306

may be underproductive

TABLE 9
Degrees Awarded
UNIVERSITY OF ALASKA - FAIRBANKS

Level: Associate

Program Taxonomy	Program Name	Number of Graduates				Total
		78-79	79-80	80-81	81-82	
5600	ARTS & SCIENCES					
5600	Chemical Science	2	0	1	2	5
5600	Computer Information Systems	3	3	1	13	20
5600	Justice	0	2	4	10	16
5600	Liberal Arts	0	1	4	1	6
5600	Science	3	3	7	4	17
5600	General Program	9	5	4	7	25
	TOTAL	17	14	21	37	89
	OTHER	0	1	1	0	2
	TOTAL	0	1	1	0	2
	TOTAL ASSOCIATE DEGREES AWARDED	17	15	22	37	91

Level: Bachelor's

0100	AGRICULTURE & NATURAL RESOURCES					
0107	Fisheries Science	0	4	2	5	11
0107	Wildlife Management	6	8	13	7	34
0115	Natural Resources Management	5	13	9	10	37
	TOTAL	11	25	24	22	82
0300	AREA STUDIES					
0307	Russian Studies	0	1	0	0	1
0399	Northern Studies	0	0	3	0	3
	TOTAL	0	1	3	0	4
0400	BIOLOGICAL SCIENCES					
0401	Biological Science	20	30	33	23	106
	TOTAL	20	30	33	23	106
0500	BUSINESS & MANAGEMENT					
0501	Business (deleted)	2	3	4	4	13
0502	Accounting	6	13	14	14	47
0506	Business Administration	7	8	24	27	66
	TOTAL	15	24	42	45	126

may be underproductive

TABLE 9 (continued)
Degrees Awarded
UNIVERSITY OF ALASKA - FAIRBANKS

Level: Bachelor's (cont.)

Program Taxonomy	Program Name	Number of Graduates				Total
		78-79	79-80	80-81	81-82	
0600	COMMUNICATIONS					
0602	Journalism	9	12	12	6	39
	TOTAL	9	12	12	6	39
0700	COMPUTER & INFORMATION SERVICES					
0701	Computer Science	0	0	0	1	1
	TOTAL	0	0	0	1	1
0800	EDUCATION					
0801	Education	9	0	1	0	10
0802	Elementary Education	14	23	25	21	83
0803	Secondary Education	0	3	5	5	13
0823	Early Childhood Education	0	3	2	1	6
0832	Music Education	0	0	2	0	2
0832	Music Education - Elementary	0	0	0	1	1
0832	Music Education - Secondary	0	0	0	5	5
0835	Physical Education	3	1	6	4	14
0899	Cross-Cultural Education	0	3	2	7	12
	TOTAL	26	33	43	44	146
0900	ENGINEERING					
0907	Petroleum Engineering	0	0	0	5	5
0908	Civil Engineering	16	13	16	17	62
0909	Electrical Engineering	2	5	10	10	27
0910	Mechanical Engineering	2	5	4	9	20
0911	Geological Engineering	3	7	5	4	19
0918	Mining Engineering	5	5	3	5	15
	TOTAL	28	32	38	50	148
1000	FINE & APPLIED ARTS					
1002	Art	7	7	8	8	30
1004	Music Performance	0	0	4	1	5
1005	Music	4	5	1	0	10
1007	Theater	0	2	3	1	6
	TOTAL	11	14	16	10	51

may be underproductive

TABLE 9 (continued)
Degrees Awarded
UNIVERSITY OF ALASKA - FAIRBANKS

Level: Bachelor's (cont.)

Program Taxonomy	Program Name	Number of Graduates				Total
		78-79	79-80	80-81	81-82	
1100	FOREIGN LANGUAGES					
1101	Foreign Languages	0	0	2	2	4
1199	Inupiaq Eskimo	0	2	1	0	3
1199	Yupik Eskimo	0	1	0	2	3
	TOTAL	0	3	3	4	10
1500	LETTERS					
1501	English	2	3	9	4	18
1505	Applied Linguistics	0	0	0	0	0
1505	Linguistics	0	0	0	1	1
1506	Speech Communication	2	1	2	1	6
1509	Philosophy	3	1	0	0	4
	TOTAL		5	11	6	9
1700	MATHEMATICS					
1701	Mathematics	6	5	5	5	21
	TOTAL	6	5	5	5	21
1900	PHYSICAL SCIENCE					
1902	Applied Physics	0	0	0	0	0
1902	Physics	3	3	3	3	12
1905	Chemistry	4	3	4	1	12
1914	Geology	8	4	7	5	24
1917	Earth Science	0	1	1	1	3
	TOTAL	15	11	15	10	51
2000	PSYCHOLOGY					
2001	Psychology	4	5	5	10	24
	TOTAL	4	5	5	10	24
2100	PUBLIC AFFAIRS & SERVICES					
2105	Justice	0	4	4	4	12
	TOTAL	0	4	4	4	12

may be underproductive

TABLE 9 (continued)
Degrees Awarded
UNIVERSITY OF ALASKA - FAIRBANKS

Level: Bachelor's (cont.)

Program Taxonomy	Program Name	Number of Graduates				Total
		78-79	79-80	80-81	81-82	
2200	SOCIAL SCIENCES					
2202	Anthropology	6	2	7	2	17
2204	Economics	3	2	1	4	10
2205	History	5	1	3	6	15
2206	Geography	5	2	4	4	15
2207	Political Science	1	4	8	5	18
2208	Sociology	3	9	4	5	21
2212	Alaska Native Studies	0	0	0	0	0
2299	Geography and Regional Dev.	0	0	0	0	0
	TOTAL	23	20	27	26	96
4900	INTERDISCIPLINARY STUDIES					
4902	General Science	1	3	2	0	6
4903	Humanities	3	0	0	3	6
4999	Interdisciplinary Studies	0	0	0	0	0
	TOTAL	4	3	2	3	12
	OTHER	8	5	0	0	13
	TOTAL	8	5	0	0	13
	TOTAL BACHELOR'S DEGREES AWARDED	187	232	283	269	971

Level: Master's

0100	AGRICULTURE & NATURAL RESOURCES					
0107	Wildlife Management	4	6	7	7	24
0115	Natural Resources Management	2	0	2	5	9
0199	Fisheries Biology	0	1	3	1	5
	TOTAL	6	7	12	13	38
0400	BIOLOGICAL SCIENCES					
0401	Biology	1	9	2	4	16
0402	Botany	3	1	0	0	4
0407	Zoology	1	3	3	1	8
0418	Marine Biology	0	0	1	0	1
	TOTAL	5	13	6	5	29

may be underproductive

TABLE 9 (continued)
Degrees Awarded
UNIVERSITY OF ALASKA - FAIRBANKS

Level: Master's (cont.)

Program Taxonomy	Program Name	Number of Graduates				Total
		78-79	79-80	80-81	81-82	
0500	BUSINESS & MANAGEMENT					
0506	Business Administration	10	6	8	12	36
	TOTAL	10	6	8	12	36
0800	EDUCATION					
0801	Education	24	17	31	11	83
0802	Elementary Education	0	0	0	2	2
0803	Secondary Education	0	0	0	2	2
0826	College Student Personnel Admin.	0	0	0	3	3
0826	Guidance and Counseling	0	0	0	3	3
0827	Public School Administration	0	0	0	6	6
0839	Vocational Education	0	0	0	2	2
0899	Cross-Cultural Education	0	0	1	2	3
	TOTAL	24	17	32	31	104
0900	ENGINEERING					
0907	Petroleum Engineering	0	0	0	0	0
0908	Civil Engineering	1	2	5	3	11
0909	Electrical Engineering	0	0	0	0	0
0910	Mechanical Engineering	0	0	0	0	0
0911	Geological Engineering	0	0	0	0	0
0913	Engineering Management	6	1	1	0	8
0913	Science Management	0	2	1	0	3
0918	Mineral Preparation Engineering	2	1	0	1	4
0918	Mining Engineering	0	1	1	0	2
0922	Environmental Quality Engineering	0	0	0	2	2
0922	Environmental Quality Science	0	2	1	0	3
0999	Arctic Engineering	0	0	0	1	1
	TOTAL	9	9	9	7	34
1000	FINE & APPLIED ARTS					
1005	Music	0	2	1	2	5
	TOTAL	0	2	1	2	5
1500	LETTERS					
1501	English	1	0	5	4	10
	TOTAL	1	0	5	4	10

may be underproductive

TABLE 9 (continued)
Degrees Awarded
UNIVERSITY OF ALASKA - FAIRBANKS

Level: Master's (cont.)

Program Taxonomy	Program Name	Number of Graduates				Total
		78-79	79-80	80-81	81-82	
1700	MATHEMATICS					
1701	Mathematics	1	1	0	0	2
	TOTAL	1	1	0	0	2
1900	PHYSICAL SCIENCES					
1902	Physics	1	0	0	1	2
1905	Chemistry	1	2	0	2	5
1913	Atmospheric Science	0	0	1	1	2
1919	Oceanography	2	5	7	3	17
1999	Geology and Geophysics	7	6	3	8	24
1999	Space Physics	0	1	2	3	6
	TOTAL	11	14	13	18	56
2200	SOCIAL SCIENCES					
2202	Anthropology	3	0	7	3	13
2299	Resource Economics	0	0	0	0	0
	TOTAL	3	0	7	3	13
4900	INTERDISCIPLINARY STUDIES					
4902	Science	1	0			1
4999	Interdisciplinary Studies	0	0			1
	TOTAL	1	0	0	1	2
	OTHER	2	4	1	0	7
	TOTAL	2	4	1	0	7
	TOTAL MASTER'S DEGREES AWARDED	73	73	94	96	336

Level: Doctorate

0100	AGRICULTURE & NATURAL RESOURCES					
0107	Wildlife Management	0	0	0	0	0
	TOTAL	0	0	0	0	0

may be underproductive

TABLE 9 (continued)
 Degrees Awarded
 UNIVERSITY OF ALASKA - FAIRBANKS

Level: Doctorate (cont.)

Program Taxonomy	Program Name	Number of Graduates				Total
		78-79	79-80	80-81	81-82	
0400	BIOLOGICAL SCIENCES					
0401	Biological Science	2	0	1	1	4
	TOTAL	2	0	1	1	4
1900	PHYSICAL SCIENCES					
1902	Physics	0	0	0	0	0
1913	Atmospheric Science	0	0	0	0	0
1999	Geology and Geophysics	2	0	0	0	2
1999	Space Physics	0	0	1	0	1
	TOTAL	2	0	1	0	3
4990	INTERDISCIPLINARY STUDIES					
4999	Interdisciplinary Studies	1	0	0	5	6
	TOTAL	1	0	0	5	6
	TOTAL DOCTORAL DEGREES AWARDED	5	0	2	6	13

may be underproductive

TABLE 10
 Certificates and Degrees Awarded
 UNIVERSITY OF ALASKA - JUNEAU

Level: Certificate

Program Taxonomy	Program Name	Number of Graduates				Total
		78-79	79-80	80-81	81-82	
5000	BUSINESS & COMMERCE TECHNOLOGIES					
5002	Accounting Clerk	0	0	0	0	0
5005	Office Occupations	0	0	0	0	0
	TOTAL	0	0	0	0	0
5100	DATA PROCESSING TECHNOLOGIES					
5101	Data Processing	0	0	0	0	0
	TOTAL	0	0	0	0	0
5300	MECHANICAL & ENGINEERING TECHNOLOGIES					
5306	Automotive Technology	0	0	0	5	5
5307	Diesel Mechanics	0	0	0	0	0
5317	Marine Carpentry	0	0	0	0	0
5317	Woods/Construction	0	0	0	0	0
5399	Marine Engine Repair	0	0	0	0	0
	TOTAL			0		5
	PUBLIC SERVICE RELATED TECHNOLOGIES					
5503	Early Childhood Education	0	0	0	1	1
	TOTAL	0	0	0	1	1
	OTHER	1	0	0	0	1
	TOTAL CERTIFICATES AWARDED	1	0	0	6	7

Level: Associate

5000	BUSINESS & COMMERCE TECHNOLOGIES					
5005	Office Administration	0	0	0	0	0
5005	Office Occupations (revised)		0	0	1	3
	TOTAL	2	0	0	1	3
5300	MECHANICAL & ENGINEERING TECHNOLOGIES					
5317	Construction Technology	2	0	0	3	5
5399	Power Technology	0	0	0	0	0
	TOTAL	2	0	0	3	5

may be underproductive

TABLE 10 (continued)
 Certificates and Degrees Awarded
 UNIVERSITY OF ALASKA - JUNEAU

Level: Associate (cont.)

Program Taxonomy	Program Name	Number of Graduates				Total
		78-79	79-80	80-81	81-82	
5400	NATURAL SCIENCE TECHNOLOGIES					
5406	Marine Technology	1	0	0	1	2
	TOTAL	1	0	0	1	2
5500	PUBLIC SERVICE RELATED TECHNOLOGIES					
5503	Early Childhood Education	1	2	0	2	5
5599	Paralegal Studies	0	0	1	1	2
	TOTAL	1	2	1	3	7
5600	ARTS & SCIENCES					
5600	General Program	1	2	11	12	58
	TOTAL	13	22	11	12	58
	TOTAL ASSOCIATE DEGREES AWARDED	19	24	12	20	75

Level: Bachelor's

0100	AGRICULTURE & NATURAL RESOURCES					
0107	Fisheries	0	2	2	2	6
	TOTAL	0	2	2	2	6
0400	BIOLOGICAL SCIENCES					
0401	Biology	0	1	2	2	5
	TOTAL	0	1	2	2	5
0500	BUSINESS & MANAGEMENT					
0506	Business Administration	0	1	3	1	5
	TOTAL	0	1	3	1	5
0800	EDUCATION					
0802	Elementary Education	7	1	2	3	13
0803	Secondary Education	0	0	1	2	3
	TOTAL	7	1	3	5	16

may be underproductive

TABLE 10 (continued)
 Certificates and Degrees Awarded
 UNIVERSITY OF ALASKA - JUNEAU

Level: Bachelor's (cont.)

Program Taxonomy	Program Name	Number of Graduates				Total
		78-79	79-80	80-81	81-82	
1000 1005	FINE & APPLIED ARTS Music	0	0	0	0	0
	TOTAL	0	0	0	0	0
2200 2207	SOCIAL SCIENCES Government	0	0	0	0	0
	TOTAL	0	0	0	0	0
4900 4901 4999	INTERDISCIPLINARY STUDIES Liberal Arts Interdisciplinary Studies	0 0	0 1	0 0	7 0	7 1
	TOTAL	0	1	0	7	8
	OTHER	2	0	0	0	2
	TOTAL	2	0	0	0	2
	TOTAL BACHELOR'S DEGREES AWARDED	9	6	10	17	42

Level: Master's

0100 0107	AGRICULTURE & NATURAL RESOURCES Fisheries	0	3	1	3	7
	TOTAL	0	3	1	3	7
0500 0506	BUSINESS & MANAGEMENT Business Administration	0	1	1	0	2
	TOTAL	0	1	1	0	2
0800 0801 0839	EDUCATION Education Vocational Education	16 0	15 0	6 0	11 0	48 0
	TOTAL	16	15	6	11	48

may be underproductive

TABLE 10 (continued)
 Certificates and Degrees Awarded
 UNIVERSITY OF ALASKA - JUNEAU

Level: Master's (cont.)

Program Taxonomy	Program Name	Number of Graduates				Total
		78-79	79-80	80-81	81-82	
0900	ENGINEERING					
0913	Engineering Management	2	0	4	1	7
0913	Science Management	0	0	0	0	0
	TOTAL	2	0	4	1	7
2100	PUBLIC AFFAIRS & SERVICES					
2102	Public Administration	3	7	2	2	14
	TOTAL	3	7	2	2	14
	OTHER	2	0	0	0	2
	TOTAL	2	0	0	0	2
	TOTAL MASTER'S DEGREES AWARDED	23	26	14	17	80

may be underproductive

TABLE 11
 Certificates and Degrees Awarded
 ANCHORAGE COMMUNITY COLLEGE

Level: Certificate

Program Taxonomy	Program Name	Number of Graduates				Total
		78-79	79-80	80-81	81-82	
5000	BUSINESS & COMMERCE TECHNOLOGIES					
5005	Office Occupations	24	0	0	0	24
	TOTAL	24	0	0	0	24
5200	HEALTH SERVICES & PARAMEDIC TECH.					
5202	Dental Assisting	0	12	12	8	32
5209	Practical Nursing	0	16	15	8	39
	TOTAL	0	28	27	16	71
5300	MECHANICAL & ENGINEERING TECHNOLOGIES					
5302	Aviation Maintenance Tech	0	10	10	0	20
5304	Architectural Drafting	0	4	0	1	5
5306	Automotive Technology	9	2	3	2	16
5307	Diesel Technology	1	8	9	3	21
5310	Electronics Technology	11	12	2	4	29
5399	Civil Engineering Drafting	0	12	0	1	13
5399	Mechanical & Electrical Drafting	25	1	0	0	26
5399	Structural Drafting	0	9	0	3	12
	TOTAL	46	58	24	14	142
	TOTAL CERTIFICATES AWARDED	70	86	51	30	237

Level: Associate

5000	BUSINESS & COMMERCE TECHNOLOGIES					
5001	Business Administration	0	31	27	43	101
5002	Accounting	12	11	6	24	53
5005	Office Occupations	9	13	4	9	35
	TOTAL	21	55	37	76	189
5100	DATA PROCESSING TECHNOLOGIES					
5101	Computer Information Systems	1	11	5	14	31
	TOTAL	1	11	5	14	31

may be underproductive

TABLE 11 (continued)
 Certificates and Degrees Awarded
 ANCHORAGE COMMUNITY COLLEGE

Level: Associate (cont.)

Program Taxonomy	Program Name	Number of Graduates				Total
		78-79	79-80	80-81	81-82	
5200	HEALTH SERVICES & PARAMEDIC TECH					
5200	Paramedic Technology (deleted)	5	5	1	0	11
5202	Dental Assisting	3	4	3	5	15
5203	Dental Hygiene	6	8	10	7	31
5205	Medical Laboratory Technology	9	4	10	11	34
5208	Nursing Science	30	23	19	36	108
5214	Medical Assisting	7	2	1	0	10
	TOTAL	60	46	44	59	209
5300	INDUSTRIAL & CONSTRUCTION TECHNOLOGIES					
5302	Air Traffic Control	0	3	6	5	19
5307	Aviation Administration	0	4	3	2	9
5307	Aviation Maintenance Technology	18	3	1	2	24
5307	Professional Piloting	0	13	12	10	35
5306	Automotive Technology	3	4	2	3	12
5307	Diesel Technology	1	3	3	5	12
5308	Welding Technology	0	1	3	2	6
5309	Surveying Technology	5	5	8	5	23
5310	Electronics Technology	11	17	12	12	52
5399	Architectural & Eng. Drafting Tech	6	12	4	8	30
	TOTAL	44	70	54	54	222
5400	ASSOCIATE ARTS & SCIENCES					
5404	Food Services Technology	1	1	1	1	4
5405	Home Economics	4	2	3	5	14
	TOTAL	5	3	4	6	22
5500	LABOR SERVICES & RELATED TECHNOLOGIES					
5507	Food Science	3	3	5	5	16
	TOTAL	3	3	5	5	16
5600	ARTS & SCIENCES					
5600	General Program	83	63	90	90	331
	TOTAL	83	63	90	90	331
	TOTAL ASSOCIATE DEGREES AWARDED	176	261	229	204	1,040

may be underproductive

TABLE 12
 Certificates and Degrees Awarded
 KENAI PENINSULA COMMUNITY COLLEGE

Level: Certificate

Program Taxonomy	Program Name	Number of Graduates				Total
		78-79	79-80	80-81	81-82	
5000	BUSINESS & COMMERCE TECHNOLOGIES					
5005	Office Occupations	10	12	9	5	36
	TOTAL	10	12	9	5	36
5300	MECHANICAL & ENGINEERING TECHNOLOGIES					
5305	Petroleum Technology	11	7	6	6	30
	TOTAL	11	7	6	6	30
	TOTAL CERTIFICATE DEGREES AWARDED	21	19	15	11	66
5000	BUSINESS & COMMERCE TECHNOLOGIES					
5005	Office Occupations	2	6	5	1	14
	TOTAL	2	6	5	1	14
5300	MECHANICAL & ENGINEERING TECHNOLOGIES					
5314	Industrial Proc. Instrumentation	0	3	10	8	21
5399	Industrial Electronics	0	3	4	2	9
5399	Petroleum Engineering Aide	0	0	3	2	5
5399	Petroleum Technology	4	22	37	36	99
	TOTAL	4	28	54	48	134
5400	AGRICULTURE TECHNOLOGIES					
5405	Forest Technology	0	0	0	0	0
	TOTAL	0	0	0	0	0
5600	ARTS & SCIENCE					
5600	Business Administration	0	0	0	0	0
5600	General Program	9	8	21	19	57
	TOTAL	9	8	21	19	57
	TOTAL ASSOCIATE DEGREES AWARDED	15	42	80	68	205

may be underproductive

TABLE 13
 Certificates and Degrees Awarded
 KETCHIKAN COMMUNITY COLLEGE

Level: ~~Certificate~~

Program Taxonomy	Program Name	Number of Graduates				Total
		78-79	79-80	80-81	81-82	
5000	BUSINESS & COMMERCE TECHNOLOGIES					
5005	Clerk Typist	0	0	0	0	0
5005	Stenographer	0	0	0	0	0
	TOTAL	0	0	0	0	0
5300	MECHANICAL & ENGINEERING TECHNOLOGIES					
5300	Diesel Technology	3	3	4	5	15
	TOTAL	3	3	4	5	15
	TOTAL CERTIFICATES AWARDED	3	3	4	5	15

Level: Associate

5000	BUSINESS & COMMERCE TECHNOLOGIES					
5005	Secretarial Science	2	0	2	0	4
	TOTAL	2	0	2	0	4
5300	MECHANICAL & ENGINEERING TECHNOLOGIES					
5300	Diesel Technology	1	1	0	0	2
	TOTAL	1	1	0	0	2
5600	ARTS & SCIENCES					
5600	General Program	2	5	10	5	22
	TOTAL	2	5	10	5	22
	TOTAL ASSOCIATE DEGREES AWARDED	5	6	12	5	28

may be underproductive

TABLE 14
 Certificates & Degrees Awarded
 KODIAK COMMUNITY COLLEGE

Level: Certificate

Program Taxonomy	Program Name	Number of Graduates				Total
		78-79	79-80	80-81	81-82	
5000	BUSINESS & COMMERCE TECHNOLOGIES					
5005	Office Occupations	0	0	0	0	0
	TOTAL	0	0	0	0	0
5400	NATURAL SCIENCE TECHNOLOGIES					
5405	Home Economics	0	0	0	0	0
	TOTAL	0	0	0	0	0
	TOTAL CERTIFICATE AWARDED	0	0	0	0	0

Level: Associate

5000	BUSINESS & COMMERCE TECHNOLOGIES					
5001	Business	0	0	0	0	0
5001	Business Administration	0	0	2	4	6
5005	Office Occupations	0	1	0	0	1
	TOTAL	0	1	2	4	7
5400	NATURAL SCIENCE TECHNOLOGIES					
5499	Commercial Fishing	0	0	0	0	0
5499	Seafood Processing	0	0	0	0	0
	TOTAL	0	0	0	0	0
5600	ARTS & SCIENCES					
5600	Justice	0	2	0	0	2
5600	General Program	1	7	3	8	19
	TOTAL	1	9	3	8	21
	TOTAL ASSOCIATE DEGREES AWARDED	1	10	5	12	28

may be underproductive

TABLE 15
 Certificates and Degrees Awarded
 KUSKOKWIM COMMUNITY COLLEGE

Level: Certificate

Program Taxonomy	Program Name	Number of Graduates				Total
		78-79	79-80	80-81	81-82	
5000	BUSINESS & COMMERCE TECHNOLOGIES					
5004	Business Mgmt. Tech. (deleted)	1	0	0	0	1
5005	Office Occupations (deleted)	0	3	0	0	3
	TOTAL	1	3	0	0	4
5200	HEALTH SERVICES & PARAMEDIC TECH.					
5299	Community Health Aide	11	20	0	5	42
	TOTAL	11	20	0	5	42
5300	MECHANICAL & ENGINEERING TECHNOLOGIES					
5317	Building Maintenance Tech.	0	0	1	0	1
	TOTAL	0	0	1	0	1
	TOTAL CERTIFICATES AWARDED	12	23	7	5	47

Level: Associate

5200	HEALTH SERVICE & PARAMEDIC TECH.					
5299	Community Health Practitioner	0	0	1	0	1
	TOTAL	0	0	1	0	1
5500	EDUCATION SERVICE RELATED TECHNOLOGIES					
5533	Early Childhood Education	2	1	6	0	9
	TOTAL	2	1	6	0	9
5600	ARTS & SCIENCES					
5600	Yupik Language	0	0	0	0	0
5600	General Program	14	8	1	9	32
	TOTAL	14	8	1	9	32
	TOTAL ASSOCIATE DEGREES AWARDED	16	9	8	9	42

may be underproductive

TABLE 16
 Certificates and Degrees Awarded
 MATANUSKA-SUSITNA COMMUNITY COLLEGE

Level: Certificate

Program Taxonomy	Program Name	Number of Graduates				Total
		78-79	79-80	80-81	81-82	
5300	MECHANICAL & ENGINEERING TECHNOLOGIES					
5310	Electronics Technology	0	7	5	5	17
5317	Heating Technology	2	0	4	3	9
5317	Refrigeration Technology	0	11	10	11	32
	TOTAL	2	18	19	19	58
	TOTAL CERTIFICATES AWARDED	2	18	19	19	58
5000	BUSINESS ADMINISTRATION TECHNOLOGIES					
5001	Business Administration	2	1	1	2	6
5002	Accounting	0	0	0	0	0
5005	Secretarial Studies	0	0	0	0	0
	TOTAL	2	1	4	6	13
5300	MECHANICAL & ENGINEERING TECHNOLOGIES					
5302	Professional Piloting	2	0	1	1	4
5310	Electronics Technology	0	2	3	2	7
5317	Refrigeration & Heating Tech	1	0	2	2	5
	TOTAL	3	2	6	5	16
5500	PUBLIC SERVICE RELATED TECHNOLOGIES					
5501	Justice	7	5	1	0	13
	TOTAL	7	5	1	0	13
5600	ARTS & SCIENCES					
5600	General Program	3	6	13	16	38
	TOTAL	3	6	13	16	38
	TOTAL ASSOCIATE DEGREES AWARDED	15	14	24	27	80

may be underproductive

TABLE 17
 Certificates and Degrees Awarded
 NORTHWEST COMMUNITY COLLEGE

Level: Certificate

Program Taxonomy	Program Name	Number of Graduates				Total
		78-79	79-80	80-81	81-82	
5000	BUSINESS & COMMERCE TECHNOLOGIES					
5001	Business	0	0	0	0	0
	TOTAL	0	0	0	0	0
5200	HEALTH SERVICES & PARAMEDIC TECH					
5277	Health Science	11	0	0	0	11
	TOTAL	11	0	0	0	11
5300	MECHANICAL & ENGINEERING TECHNOLOGIES					
5305	Surveying	0	0	0	0	0
5317	Vocational and Tech. Education	6	0	0	0	6
	TOTAL	6	0	0	0	6
5600	ARTS & SCIENCES					
5600	Education	0	0	0	0	0
	TOTAL	0	0	0	0	0
	TOTAL CERTIFICATES AWARDED	17	0	0	0	17
5000	BUSINESS & COMMERCE TECHNOLOGIES					
5001	Business					5
	TOTAL	0	2	1	2	5
5200	HEALTH SERVICES & PARAMEDIC TECH.					
5299	Health Science	0	0	0	0	0
	TOTAL	0	0	0	0	0
5300	MECHANICAL & ENGINEERING TECHNOLOGIES					
5317	Vocational and Tech. Education	0	0	0	0	0
	TOTAL	0	0	0	0	0

TABLE 17 (continued)
 Certificates and Degrees Awarded
 NORTHWEST COMMUNITY COLLEGE

Level: Associate (cont.)

Program Taxonomy	Program Name	Number of Graduates				Total
		78-79	79-80	80-81	81-82	
5600	ARTS & SCIENCES	0	0	0	0	0
5600	Art	0	2	0	0	2
5600	Education	3	1	0	0	4
5600	General Program					
	TOTAL	3	3	0	0	6
	TOTAL ASSOCIATE DEGREES AWARDED	3	5	1	2	11

may be underproductive

TABLE 18
 Certificates and Degrees Awarded
 PRINCE WILLIAM SOUND COMMUNITY COLLEGE

Level: Certificate

Program Taxonomy	Program Name	Number of Graduates				Total
		78-79	79-80	80-81	81-82	
5000 5005	BUSINESS & COMMERCE TECHNOLOGIES Office Occupations	0	0	0	0	0
	TOTAL	0	0	0	0	0
	TOTAL CERTIFICATES AWARDED	0	0	0	0	0
5000 5005	BUSINESS & COMMERCE TECHNOLOGIES Office Occupations	0	0	0	0	0
	TOTAL	0	0	0	0	0
5500 5599	PUBLIC SERVICE RELATED TECHNOLOGIES Developmental Disabilities	0	0	0	0	0
	TOTAL	0	0	0	0	0
5600 5600	ARTS & SCIENCES General Program	0	0	1	1	2
	TOTAL	0	0	1	1	2
	TOTAL CERTIFICATES AWARDED	0	0	1	1	2

TABLE 19
 Certificates and Degrees Awarded
 SITKA COMMUNITY COLLEGE

Level: Certificate

Program Taxonomy	Program Name	Number of Graduates				Total
		78-79	79-80	80-81	81-82	
5000	BUSINESS & COMMERCE TECHNOLOGIES					
5002	Accounting Clerk	0	0	0	0	0
5005	Clerk Typist	0	0	0	0	0
	TOTAL	0	0	0	0	0
5200	HEALTH SERVICES & PARAMEDIC TECH					
5209	Nursing Nurses Aide	0	4	0	0	4
	TOTAL	0	4	0	0	4
5300	MECHANICAL & ENGINEERING TECHNOLOGIES					
5308	Welding	0	0	0	0	0
	TOTAL	0	0	0	0	0
5400	NATURAL SCIENCE TECHNOLOGIES					
5406	Marine Maintenance Tech.	0	0	0	0	0
	TOTAL	0	0	0	0	0
	TOTAL CERTIFICATES AWARDED	0	4	0	0	4
5500	BUSINESS & COMMERCE TECHNOLOGIES					
5501	Business Administration	0	1	2	1	5
5505	Office Occupations	0	1	0	1	2
	TOTAL	0	2	2	3	7
5600	ARTS & SCIENCES					
5600	General Program	4	0	4	2	10
	TOTAL	4	0	4	2	10
	TOTAL ASSOCIATE DEGREES AWARDED	4	2	6	5	17

may be underproductive

TABLE 20
 Certificates and Degrees Awarded
 TANANA VALLEY COMMUNITY COLLEGE

Level: Certificate

Program Taxonomy	Program Name	Number of Graduates				Total
		78-79	79-80	80-81	81-82	
5000	BUSINESS & COMMERCE TECHNOLOGIES					
5005	Office Occupations	0	0	0	0	0
	TOTAL	0	0	0	0	0
5300	MECHANICAL & ENGINEERING TECHNOLOGIES					
5300	Airframe and Power Plant	0	0	0	0	0
	TOTAL	0	0	0	0	0
5400	NATURAL SCIENCE TECHNOLOGIES					
5404	Food service baking Tech.	1	1	0	1	3
	TOTAL	1	1	0	1	3
5500	PUBLIC SERVICE RELATED TECHNOLOGIES					
5507	Fire Science Technology	1	0	0	0	1
	TOTAL	1	0	0	0	1
	TOTAL CERTIFICATES AWARDED	2	1	0	1	4
5000	BUSINESS & COMMERCE TECHNOLOGIES					
5004	Business Supervision	0	1	0	1	2
5005	Office Occupations	5	4	4	3	16
	TOTAL	5	5	4	4	18
5300	MECHANICAL & ENGINEERING TECHNOLOGIES					
5302	Airframe and Power Plant	0	5	3	4	12
5302	Aviation Technology	10	0	5	1	16
5302	Professional Piloting	0	3	0	0	3
5302	Graphic Arts and Design	0	0	2	0	2
5303	Electronics Technology	7	5	4	13	29
5310	Industrial Tech. (deleted)	14	0	0	0	14
5312	Petroleum Technology	0	17	25	28	70
5399						
	TOTAL	31	30	39	46	146

may be underproductive

TABLE 20 (continued)
 Certificates and Degrees Awarded
 TAANANA VALLEY COMMUNITY COLLEGE

Level: Associate (cont.)

Program Taxonomy	Program Name	Number of Graduates				Total
		78-79	79-80	80-81	81-82	
5400	NATURAL SCIENCE TECHNOLOGIES					
5404	Food Service Baking Tech	1	4	5	0	10
5405	Family Living & Management	0	0	0	0	0
	TOTAL	1	4	5	0	10
5500	EDUCATION SERVICE RELATED TECHNOLOGIES					
5503	Early Childhood Development	0	0	0	1	15
5504	Library Technical Assistant	2	8	3	3	16
5507	Fire Science	1	2	1	2	6
5599	Paraprofessional Counseling	0	0	3	4	7
	TOTAL	9	10	9	16	44
5600	ARTS & SCIENCES					
5600	General Program	0	0	0	0	0
	TOTAL	0	0	0	0	0
	TOTAL ASSOCIATE DEGREES AWARDED	40	49	57	66	218

may be underproductive

TABLE 21
Degrees Awarded
RURAL EDUCATION

Level: Associate

Program Taxonomy	Program Name	Number of Graduates				Total
		78-79	79-80	80-81	81-82	
5400	NATURAL SCIENCE TECHNOLOGIES					
5402	Agriculture	0	0	0	0	0
	TOTAL	0	0	0	0	0
	TOTAL ASSOCIATE DEGREES AWARDED	0	0	0	0	0

may be underproductive

TABLE 22
 Certificates and Degrees Awarded
 ALASKA PACIFIC UNIVERSITY

Level: Certificate

Program Taxonomy	Program Name	Number of Graduates				Total
		78-79	79-80	80-81	81-82	
5000	BUSINESS & COMMERCE TECHNOLOGIES					
5099	Travel Industry Management	0	0	0	0	0
5099	Women In Management	0	0	0	0	0
	TOTAL	0	0	0	0	0
	TOTAL CERTIFICATES AWARDED	0	0	0	0	0

Level: Associate

5600	ARTS & SCIENCES					
5600	Liberal Arts	0	0	0	1	1
	TOTAL	0	0	0	1	1
	TOTAL ASSOCIATE DEGREES AWARDED	0	0	0	1	1

Level: Bachelor's

4900	INTERDISCIPLINARY STUDIES					
4901	Liberal Arts	0	1	3	14	18
	TOTAL	0	1	3	14	18
	TOTAL BACHELOR'S DEGREES AWARDED	0	1	3	14	18

Level: Masters

0500	BUSINESS AND MANAGEMENT					
0599	Management	0	0	0	0	0
	TOTAL	0	0	0	0	0
0800	EDUCATION					
0801	Education	0	0	4	8	12
	TOTAL	0	0	4	8	12

may be underproductive

TABLE 22 (continued)
 Certificates and Degrees Awarded
 ALASKA PACIFIC UNIVERSITY

Level: Master's (cont.)

Program Taxonomy	Program Name	Number of Graduates				Total
		78-79	79-80	80-81	81-82	
4900 4999	INTERDISCIPLINARY STUDIES Liberal Arts	0	3	0	5	8
	TOTAL	0	3	0	5	8
	TOTAL MASTER'S DEGREES AWARDED	0	3	4	13	20

may be underproductive

TABLE 23
 Certificates and Degrees Awarded
 SHELDON JACKSON COLLEGE

Level: Certificate

Program Taxonomy	Program Name	Number of Graduates				Total
		78-79	79-80	80-81	81-82	
5400 5403	NATURAL SCIENCE TECHNOLOGIES Forestry and Wildlife Technologies*	0	10	0	23	33
	TOTAL	0	10	0	23	33
	TOTAL CERTIFICATES AWARDED	0	10	0	23	33

Level: Associate

5400 5403	NATURAL SCIENCE TECHNOLOGIES Forestry and Wildlife Technologies*	4	7	0	0	11
	TOTAL	4	7	0	0	11
5500 5501 5503 5505	PUBLIC SERVICE RELATED TECHNOLOGIES Public Service Technologies, Gen. Education Technologies Police, Law Enforcement, Corrections Technologies	13 6 0	0 2 2	0 0 2	0 3 1	13 11 5
	TOTAL	19	4	2	4	29
5600 5600	ARTS & SCIENCES AA Arts & Science	0	0	20	20	40
	TOTAL	0	0	20	20	40
	TOTAL ASSOCIATE DEGREES AWARDED	23	11	22	24	80

Level: Bachelor's

0800 0802	EDUCATION Elementary Education	7	4	4	2	17
	TOTAL	7	4	4	2	17
	TOTAL BACHELOR'S DEGREES AWARDED	7	4	4	2	17

*Includes Fisheries

may be underproductive

TABLE 24
 Certificates Awarded
 ALASKA VOCATIONAL-TECHNICAL CENTER

Level: Certificate

Program Taxonomy	Program Name	Number of Graduates				Total
		78-79	79-80	80-81	81-82	
5000	BUSINESS & COMMERCE TECHNOLOGIES					
5002	Accounting Technologies	14	5	2	4	25
5005	Secretarial Technologies	26	30	34	29	119
	TOTAL	40	35	36	33	144
5300	MECHANICAL & ENGINEERING TECHNOLOGIES					
5306	Automotive Technologies	14	20	21	20	75
5307	Diesel Technologies	25	23	23	22	93
5308	Welding Technologies	11	34	12	21	78
5315	Mechanical Technologies	32	26	15	21	94
5319	Construction and Building Tech.	36	42	22	18	118
5399	Other Technologies	36	36	46	39	157
	TOTAL	154	181	139	141	615
5400	NATURAL SCIENCE TECHNOLOGIES					
5403	Forestry and Wildlife Tech.	8	16	32	11	67
5404	Food Services Technologies	25	27	26	33	111
	TOTAL	33	43	58	44	178
TOTAL CERTIFICATES AWARDED		227	259	233	218	937

may be underproductive

TABLE 25
Degrees Awarded
ALASKA BIBLE COLLEGE

Level: Associate

Program Taxonomy	Program Name	Number of Graduates				Total
		78-79	79-80	80-81	81-82	
500 5502	PUBLIC SERVICE RELATED TECHNOLOGIES Bible	0	0	5	5	10
	TOTAL	0	0	5	5	10
	TOTAL ASSOCIATE DEGREES AWARDED	0	0	5	5	10

Level: Bachelor's

2300 2301	THEOLOGY Theological Professions, General	0	3	0	3	6
	TOTAL	0	3	0	3	6
	TOTAL BACHELOR'S DEGREES AWARDED	0	3	0	3	6

may be underproductive

SECTION V
COMMISSION RECOMMENDATIONS

-101-

127

The following are the Commission's recommendations with regard to programs that have been identified as being possibly underproductive.

- I. The University of Alaska should establish a time-line for the review of those programs identified as being possibly underproductive.

- II. The University of Alaska, through the appropriate offices, should continue to conduct a thorough review of each identified program with special cognizance of the following questions:
 - 1) Why should this program be offered by this institution?
 - 2) What state needs will be met?
 - 3) What is the minimum cost to operate this program with a basic core of faculty?
 - 4) What standards of quality have been determined for this program?
 - 5) What evidence can be presented to ensure that these standards have been achieved?

- III. The University of Alaska should report the results of their reviews to the Governor, the Legislature, and the Commission on Postsecondary Education.

- IV. Although Alaska Bible College carries out a special mission to a select clientele, a careful review of the bachelor's degree offering in Theological Professions may serve to increase the number of graduates.

APPENDIX I
DEFINITIONS OF FORMAL AWARDS

APPENDIX I

AWARD	DEFINITION
Certificate	: An award given for successful completion of a program of study of less than one year or at least one year (30 undergraduate semester credit hours).
Associate Degree	: A degree conferred by a college or university for successful completion of a program of study of at least two years (60 undergraduate semester credit hours).
Bachelor's Degree	: A degree conferred by a college or university for successful completion of a program of study of at least four years (130 undergraduate semester credit hours).
Master's Degree	: A degree conferred by a college or university for successful completion of a program of graduate study of at least one year (30 graduate semester credit hours). This degree ranks above the bachelor's degree.
Doctorate Degree	: A degree conferred by a college or university for successful completion of a program of graduate study beyond the master's degree. This degree program has no fixed credit requirement at the University of Alaska, Fairbanks.

APPENDIX II
DEFINITIONS OF PROGRAM AREAS

APPENDIX II

DEFINITIONS OF PROGRAM AREAS

SECTION I. CONVENTIONAL ACADEMIC SUBDIVISIONS OF KNOWLEDGE AND TRAINING

- 0100 AGRICULTURE AND
NATURAL RESOURCES Includes those subject field designations which characterize degree programs having to do with the production of food and management of natural fiber, plant, forest, and wildlife resources.
- 0200 ARCHITECTURE AND
ENVIRONMENTAL DESIGN Includes those subject field designations which characterize degree programs having to do with training for a profession in designing buildings, communities, parks, and other manmade aspects of the physio-social environment.
- 0300 AREA STUDIES Includes those subject field designations which characterize degree programs having to do with programs designed to study cultures indigenous to specific geographic regions.
- 0400 BIOLOGICAL SCIENCES Includes those subject field designations which characterize degree programs having to do with the science of life or living matter in all its forms and phenomena especially with regard to the origin, growth, reproduction, and structure of life forms.
- 0500 BUSINESS AND
MANAGEMENT Includes those subject field designations which characterize degree programs related to the organization, operation, administration, and control of private and public organizations.
- 0600 COMMUNICATIONS Includes those subject field designations which characterize degree programs related to collection, preparation, and presentation of ideas and information intended for popular consumption through mass media.
- 0700 COMPUTER AND
INFORMATION SCIENCES Includes those subject field designations which characterize degree programs having to do with the design, development, and application of computer capabilities to data storage and manipulation and related computational procedures.

- 0800 EDUCATION Includes those subject field designations which characterize degree programs related to administration and control of educational organizations and institutions and subjects related to instruction and services both within and outside of such formal organizations.
- 0900 ENGINEERING Includes those subject field designations which characterize degree programs having to do with the practical application of basic scientific knowledge to the design, production, and operation of systems intended to facilitate man's control and use of his natural environment.
- 1000 FINE AND APPLIED ARTS Includes those subject field designations which characterize degree programs having to do with the creation and appreciation of the diverse modes of communicating ideas and emotions by means of stylized, visual, and non-visual representations and symbols.
- 1100 FOREIGN LANGUAGES Includes those subject field designations which characterize degree programs related to mastery of a language other than English or related to the study of a foreign culture through the literature of that culture or the vernacular language.
- 1200 HEALTH PROFESSIONS Includes those subject field designations which characterize degree programs having to do with the maintenance and restoration of physical and mental health.
- 1500 LETTERS Includes those subject field designations which characterize degree programs having to do with English language and literature and value systems related to ancient and modern cultures.
- 1700 MATHEMATICS Includes those subject field designations which characterize degree programs having to do with the science of numbers and space configurations and their operations, measurement, relationships, and abstractions.
- 1900 PHYSICAL SCIENCES Includes those subject field designations which characterize degree programs having to do with the basic nature of matter, energy, and associated phenomena.

- 2000 PSYCHOLOGY Includes those subject field designations which characterize degree programs having to do with behavioral and mental processes.
- 2100 PUBLIC AFFAIRS
AND SERVICES Includes those subject field designations which characterize degree programs related to developing and improving competencies in the management and operation of governmental agencies.
- 2200 SOCIAL SCIENCES Includes those subject field designations which characterize degree programs having to do with all aspects of the past and present activities, conduct, interactions, and organizations of humans.
- 2300 THEOLOGY Includes those subject field designations which characterize degree programs having to do with the practice and application of theological principles and procedures as they apply to the planning, managing and organizing of religious activities.
- 4900 INTERDISCIPLINARY
STUDIES Includes those subject field designations which characterize degree programs involving more than one major discipline without primary concentration in any one area.
- 5600 ARTS AND SCIENCE OR
GENERAL PROGRAMS Includes those subject field designations which characterize degree programs involving arts and science or general programs not organized as occupational programs leading to a two-year associate degree.

SECTION II. TECHNOLOGICAL AND OCCUPATIONAL SUBDIVISIONS OF KNOWLEDGE
AND TRAINING

- 5000 BUSINESS AND COMMERCE
TECHNOLOGIES Includes those subject field designations which characterize degree and certificate programs specifically associated with development of skills required for commercial, business, or secretarial occupations at the semi-professional level. Two years of preparation beyond high school are usually sufficient for entrance into these occupational fields.
- 5100 DATA PROCESSING
TECHNOLOGIES Includes those subject field designations which characterize degree and certificate programs specifically associated with development of skills required for data

processing or related occupations at the semi-professional level. Two years of preparation beyond high school are usually sufficient for entrance into these occupational fields.

5200 HEALTH SERVICES
AND PARAMEDICAL
TECHNOLOGIES

Includes those subject field designations which characterize degree and certificate programs specifically associated with development of skills required for health service related occupations at the semi-professional level. Two years of preparation beyond high school are usually sufficient for entrance into these occupational fields.

5300 MECHANICAL AND
ENGINEERING
TECHNOLOGIES

Includes those subject field designations which characterize degree and certificate programs specifically associated with development of skills required for mechanical and engineering related occupations at the semi-professional level. Two years of preparation beyond high school are usually sufficient for entrance into these occupational fields.

5400 NATURAL SCIENCE
TECHNOLOGIES

Includes those subject field designations which characterize degree and certificate programs specifically associated with development of skills required for natural science related occupations at the semi-professional level. Two years of preparation beyond high school are usually sufficient for entrance into these occupational fields.

5500 PUBLIC SERVICE
RELATED TECHNOLOGIES

Includes those subject field designations which characterize degree and certificate programs specifically associated with development of skills required for public service related occupations at the semi-professional level. Two years of preparation beyond high school are usually sufficient for entrance into these occupational fields.

APPENDIX III
PROGRAM EVALUATION CRITERIA

-110-

136

APPENDIX III
PROGRAM EVALUATION CRITERIA

TENNESSEE

<u>Degree Level</u>	<u>Total Number of Graduates for 4-year period is less than</u>	<u>Average Per Year</u>
Associate	40	10
Bachelor's	40	10
Master's	20	5
Doctorate	12	3

FLORIDA

<u>Degree Level</u>	<u>Total Number of Graduates for 5-year period is less than</u>	<u>Average Per Year</u>
Bachelor's	15 or 30*	5 or 10
Master's	9 or 15*	3 or 5
Doctorate	6	2

*The lower figure represents the expected productivity if the program is the highest level degree program. The higher figure represents the expected productivity if the program is not the highest level degree program.

NEW MEXICO

<u>Degree Level</u>	<u>Total Number of Graduates for 5-year period is less than</u>	<u>Average Per Year</u>
Bachelor's	20	4
Master's	5	3
Doctorate	10	2