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CAREER INFORMATION SYSTEM OF IOWA

Programs of Study
and Training

PROGRAMS OF STUDY AND TRAINING

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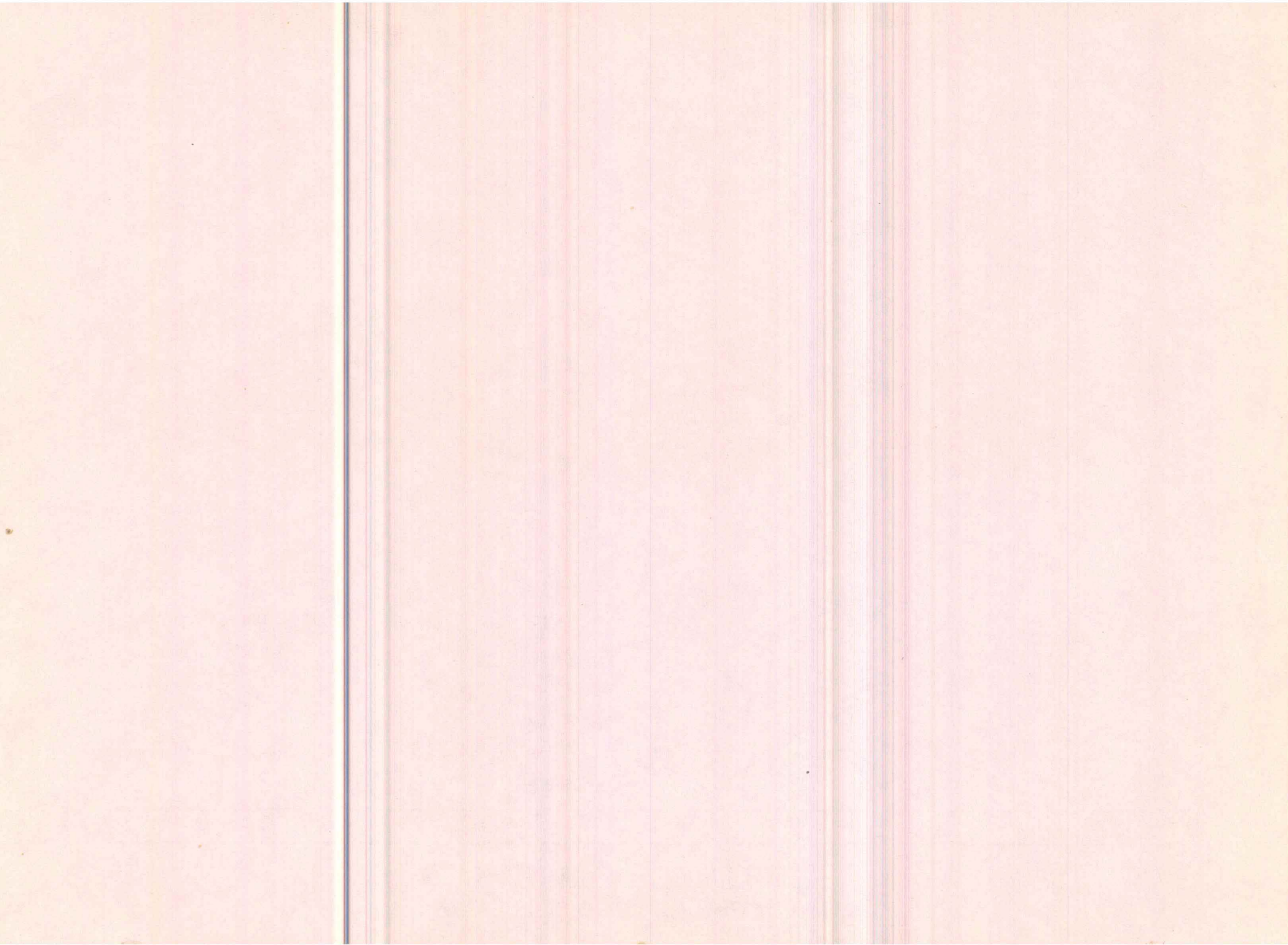
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PROGRAMS OF STUDY AND TRAINING

Career Information System of Iowa

Iowa Dept. Of Education

Grimes State Office Bldg.

Des Moines, IA 50319

Phone (515) 281-5501

AGRICULTURAL BUSINESS

CISI NO. 1002

GROUP: 1000's - AGRIBUSINESS/AGRICULTURAL PRODUCTION

- Agricultural Business Programs include applying business, management, and economic principles to agricultural products and services. Specific areas studied include purchasing, producing and marketing those products and services. The programs are four or two years in length. They may also be used as a base for additional education.
- Course work for Agricultural Business Programs may include:

Animal Science	Agronomy
Botany	Marketing
Zoology	Accounting
Chemistry	Economics
Soil Science	Crop/Livestock Production
Records Management	Mechanics
Business Law	
- In addition to business and agricultural related courses, general liberal arts courses may also be required. These courses may be in the area of English, mathematics and social studies and are often taken during the first two years. There are opportunities to specialize in an area such as livestock marketing. The more specialized courses tend to be taken during the last two years of the program. Generally, agricultural and scientific courses include laboratory experiences. Practical field experiences are required in some programs.

- Courses which would be helpful in preparing for Agricultural Business Programs include physics, biology, chemistry, mathematics, agriculture, English and social studies. Farming or business experience is also beneficial.

- CISI occupations commonly entered by graduates include:

1638 Credit Manager
2675 Agricultural Commodities Inspector
7424 Agricultural Equipment Salesperson
4161 Farm Manager
1183 Agricultural Products Buyer
7425 Agricultural Supplies Salesperson
4164 Farmer
1156 Grain Elevator Superintendent
1636 Loan Officer
7415 Securities/Commodities Sales Agent
8456 Secondary Teacher

- Seven Iowa schools have reported programs in Agricultural Business.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

725 Iowa Central Community College - Fort Dodge

Agri & Consumer Banking

750 North Iowa Area Community College - Mason City:

Agricultural Economics, two years

775 Western Iowa Technical Community College - Sioux City

Agricultural Banking/ Finance and Credit

COLLEGES AND UNIVERSITIES

835 Dordt College - Sioux Center: Agribusiness

991 Iowa State University - Ames: Agricultural Business

890 Morningside College - Sioux City: Agribusiness

905 Northwestern College - Orange City: Agribusiness

920 Simpson College - Indianola

Agricultural Resources Management, four years

991 Iowa State University - Ames

International Agriculture



PROGRAMS OF STUDY AND TRAINING

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AGRICULTURAL POWER MACHINERY

CISI NO. 1009

GROUP: 1000's - AGRIBUSINESS/AGRICULTURAL PRODUCTION

- Agricultural Power Machinery Programs include the steps in selecting, operating, selling, servicing, and repairing all forms of agricultural equipment. Shorter programs emphasize machinery set up and service. As the length increases, management skills are added. The longer programs include applying scientific, mechanical and management knowledge to the development, production, service and application of tools to agricultural production. Programs vary in length from two quarters to four years..

- Course work for Agricultural Power Machinery Programs may include:

Machinery Set-up
Hydraulic Systems
Electrical Systems
Air Conditioning
Trouble Shooting
Communication skills
Manufacturing Processes
Communications
Economics

Engineering
Safety
Welding
Painting
Power Trains
Mathematics
Dealer Experience
Agronomy
Animal Science

- Much of the instruction is presented in a shop setting. On-the-job work experience is available in some programs.

- Courses which would be helpful in preparing for Agricultural Power Machinery Programs include machine shop, mathematics, mechanics, communication skills, industrial arts and vocational agriculture. Repair experience with automobiles, farm equipment or other machinery is also beneficial.

- CISI occupations commonly entered by graduates include:

3112 Auto Mechanic
3115 Agricultural Equipment Mechanic
7424 Agricultural Equipment Salesperson
3145 Forklift Mechanic
3114 Heavy Equipment Mechanic
3144 Industrial Maintenance Mechanic
3121 Motorcycle Mechanic
3118 Small Engine Mechanic

- Related military occupations include:

61009 Aircraft Launch/Recovery Specialists
31120 Automobile Mechanics
31141 Engine Mechanics

- Twelve Iowa schools have reported programs in Agricultural Power Machinery.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

- 715 Hawkeye Institute of Technology** - Waterloo:
Agriculture Power and Equipment, six quarters
- 720 Indian Hills Community College** - Ottumwa:
Farm Machinery Maintenance and Repair, 21 months.
- 725 Iowa Central Community College** - Fort Dodge
Farm Power & Equipment Mechanics
- 730 Iowa Lakes Community College** - Emmetsburg:
Farm Equipment Mechanic, six quarters
- 740 Iowa Western Community College** - Council Bluffs:
Farm Equipment Service, two quarters
Farm Equipment Maintenance, four quarters
Agricultural Power Technology, six quarters
- 745 Kirkwood Community College** - Cedar Rapids:
Agricultural Mechanics, three or six quarters
- 750 North Iowa Area Community College** - Mason City:
Agriculture Power Mechanics, 44 weeks
- 755 Northeast Iowa Technical Institute** - Calmar:
Farm Implement Mechanics, seven quarters
- 770 Southwestern Community College** - Creston:
Agri/Industrial Mechanics, 11 months
- 775 Western Iowa Technical Comm. Coll.** - Sioux City
Agricultural Power Mechanic, four quarters

COLLEGES AND UNIVERSITIES

- 991 Iowa State University** - Ames
Agricultural Mechanization, four years
- 965 William Penn College** - Oskaloosa: Industrial Arts -
Farm Mechanics, four years



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AGRICULTURAL PRODUCTION

CISI NO. 1013

GROUP: 1000's - AGRIBUSINESS AND AGRICULTURAL PRODUCTION

- Agricultural Production Programs include the principles of planning the efficient use of resources in the production of plant and animal products. These resources may be land, water, machinery, chemicals, finance and labor. The program length varies from four quarters to four years.

- Course work for Agricultural Production Programs may include:

Agricultural Buildings	Soil Science
Agricultural Equipment	Futures Marketing
Dairy Production	Legal Problems
Swine Production	Feed Grain Production
Agricultural Marketing	Beef Production
Artificial Insemination	Animal Health
Communication Skills	Biology
Farm Records	Agricultural Finance
Animal Breeding	Crop Production
Animal Science	Corn Production
Agricultural Chemicals	Livestock Production
Forage Crop Production	Grain Grading

- Some programs allow specialization in a specific production area. All programs include on-the-job experience as part of the curriculum.

- Courses which would be helpful in preparing for Agricultural Production Programs include vocational agriculture, chemistry, bookkeeping, business law, mathematics, communication skills, biology and physics.

- CISI occupations commonly entered by graduates include:

4161 Farm Manager
1183 Agricultural Products Buyer
7245 Agricultural Supplies Salesperson
4166 Farm Worker
4164 Farmer

- Nine Iowa schools have reported programs in Agricultural Production.

- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

710 Eastern Iowa Community College - Muscatine

Farm Management Production, two years

715 Hawkeye Institute of Technology - Waterloo:

Farm Management and Operations, six quarters

730 Iowa Lakes Community College - Emmetsburg:

Farm Management, seven quarters

735 Iowa Valley Community College - Iowa Falls:

Farm Operations and Management, two years

740 Iowa Western Community Coll. - Council Bluffs

Agribusiness/Farm Management, eight quarters

745 Kirkwood Community College - Cedar Rapids

Farm and Ranch Technology, seven quarters

750 North Iowa Area Community Coll. - Mason City

Agricultural Production, one year

Farm Management, 80 weeks

765 Southeastern Community Coll. - West Burlington

Agricultural Production, 4 sem plus two summer terms

COLLEGES AND UNIVERSITIES

991 Iowa State University - Ames

Agricultural Extension Education, four years

Farm Operation: Agricultural Studies, four years



PROGRAMS OF STUDY AND TRAINING

Career Information System of Iowa

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ANIMAL PRODUCTION

CISI NO. 1014

GROUP: 1000's - AGRIBUSINESS/AGRICULTURAL PRODUCTION

- Animal Production Programs intend to prepare individuals to operate animal production facilities. Program goals are in developing skills in the selection, breeding, nutrition, health, housing, feeding and marketing of animals. Iowa programs specialize in one or more of the following groups: Dairy Cattle, Swine, Livestock and Beef Cattle. The program length varies from three to seven quarters.

- Course work for Animal Production Programs may include:

Ag. Mathematics
Record Keeping
Tax Accounting
Commodities Markets
Futures Markets
Building Construction
Building Maintenance

Animal Health
Nutrition
Ag. Chemicals
Artificial Insemination
Animal Evaluation &
Herd Management

- Cooperative on-the-job work experiences are included in these programs.
- Courses which would be helpful in preparing for Animal Production Programs include vocational agriculture, science, mathematics and English.

- CISI occupations commonly entered by graduates include:

4174 Animal Caretaker
4161 Farm Manager
1183 Agricultural Products Buyer
4166 Farm Worker
4164 Farmer

- Five Iowa schools have reported programs in Animal Production.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

715 Hawkeye Institute of Technology - Waterloo:

Animal Science, three or six quarters

730 Iowa Lakes Community College - Emmetsburg:

Dairy Farm Management, seven quarters

745 Kirkwood Community College - Cedar Rapids:

Beef Cattle Production, one year

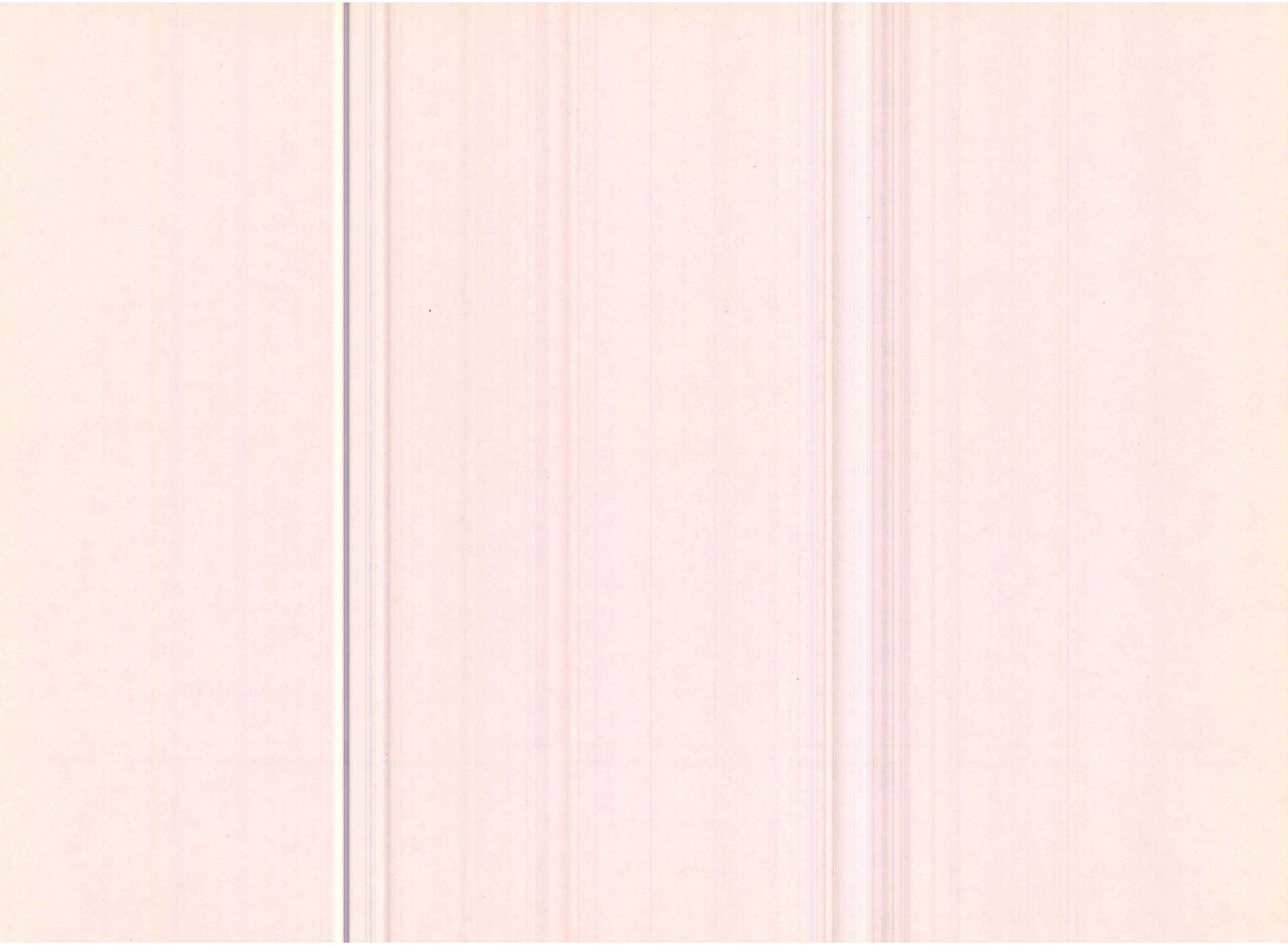
Swine Production, one year

755 Northeast Iowa Technical Institute - Calmar:

Dairy Herd Management, four quarters

775 Western Iowa Technical Comm. Coll. - Sioux City:

Livestock Production & Management, four quarters





PROGRAMS OF STUDY AND TRAINING

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CROP PRODUCTION

CISI NO. 1016

GROUP: 1000's - AGRIBUSINESS/AGRICULTURAL PRODUCTION

- Crop Production Programs intend to prepare individuals in all levels of farm production skills. Attention is given to management and maintenance skills as well as field production skills. The program length is one year. Graduates often continue in related areas to receive an associate degree.

- Course work for Crop Production Programs may include:

Agribusiness Records
Crop Planning
Crop Planting
Crop Harvesting & Drying

Animal Production
Carpentry
Concrete & Masonry
Animal Health Production

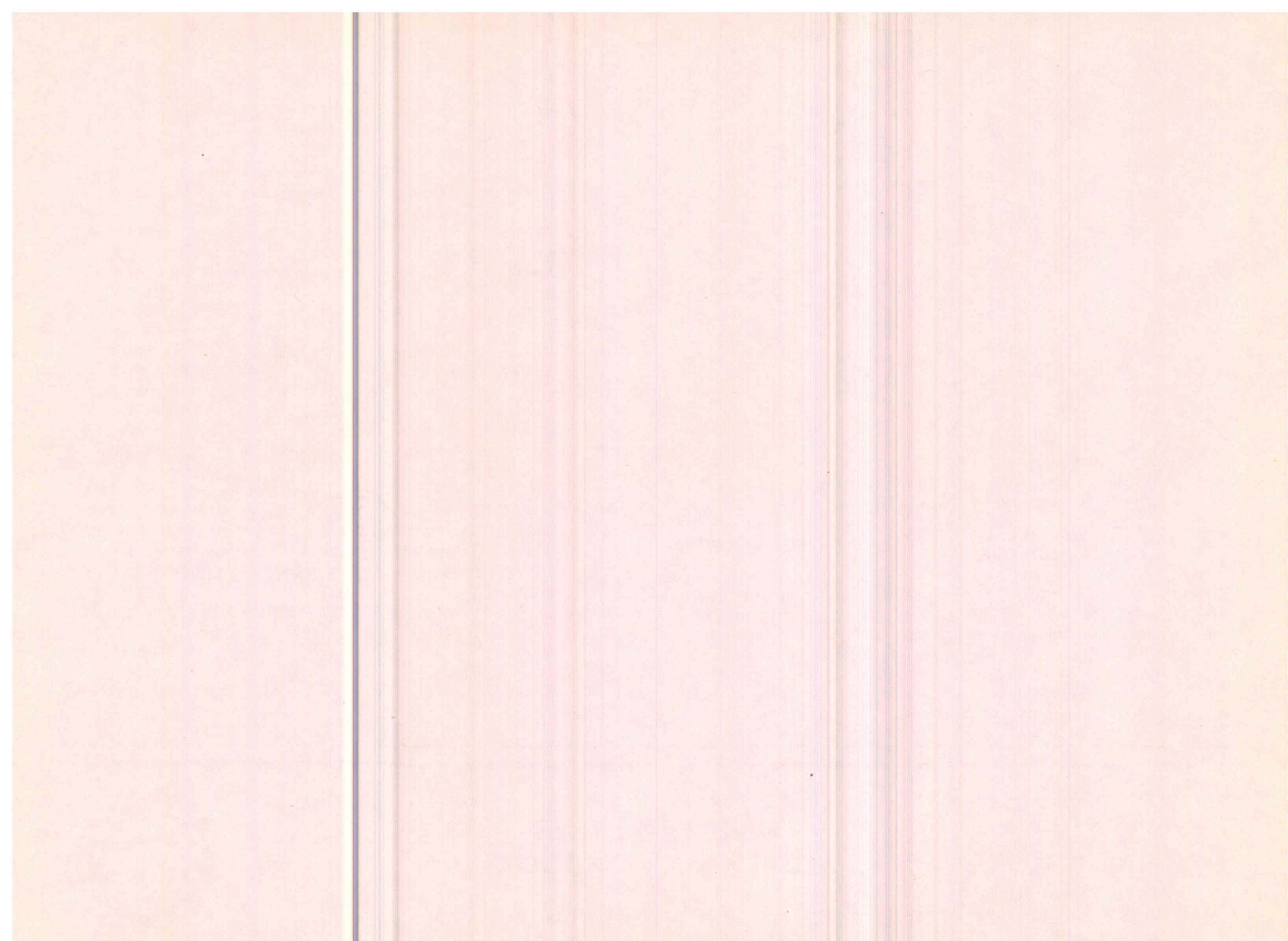
- Work experiences are available.
- Courses which would be helpful in preparing for Crop Production Programs include vocational agriculture, agricultural mechanics, and bookkeeping.
- CISI occupations commonly entered by graduates include all agribusiness occupations but are more commonly:

4161 Farm Manager
4166 Farm Worker
4164 Farmer

- One Iowa school has reported a program in Crop Production.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

745 Kirkwood Community College - Cedar Rapids:
Crop Production, one year





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AGRICULTURAL SUPPLIES AND SERVICES

CISI NO. 1023

GROUP: 1000's - AGRIBUSINESS/AGRICULTURAL PRODUCTION

- Agricultural Supplies and Services Programs emphasize the selling of supplies and services. Included in the program may be how to purchase, grade, store, and transport the agricultural products. The shorter programs contain a specific service area and longer programs provide information in more than one area. The program length varies from four quarters to two years.

- Course work for Agricultural Supplies and Services Programs may include:

Agricultural Equipment
Agricultural Chemicals
Feed Grain Production
Communication Skills
Business Machines
Office Procedures
Animal Nutrition
Crop Diseases
Feed Additives
Legal Problems

Mathematics
Accounting
Animal Health
Grain Grading
Purchasing
Management
Merchandising
Finance
Salesmanship
Soil Science

- Elective courses are required in specialized areas. Practical work experience is an important part of the programs. Course work is presented in lecture and laboratory settings.

- Courses which would be helpful in preparing for Agricultural Supplies and Services Programs include general business, science courses, communication skills, economics, bookkeeping, vocational agriculture and mathematics.

- CISI occupations commonly entered by graduates include:

1616 Bookkeeper
7424 Agricultural Equipment Salesperson
1183 Agricultural Products Buyer
7425 Agricultural Supplies Salesperson
1156 Grain Elevator Superintendent
1636 Loan Officer
7414 Manufacturer's Representative

- Related military occupations include:

16160 Accounting Specialists

- Twelve Iowa schools have reported programs in Agricultural Supplies and Services.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

705 Des Moines Area Community College - Ankeny:

Agribusiness, five terms

710 Eastern Iowa Community College - Muscatine

Feed and Fertilizer Marketing, 2 years

715 Hawkeye Institute of Technology - Waterloo:

Agribusiness Management, six quarters

725 Iowa Central Community College - Fort Dodge:

Elevator and Farm Supplies Management, 45 weeks

730 Iowa Lakes Community College - Emmetsburg:

Feed and Fertilizer Marketing, seven quarters

735 Iowa Valley Community College - Iowa Falls:

Agribusiness, two years

745 Kirkwood Community College - Cedar Rapids:

Agribusiness Technology, one to two years

750 North Iowa Area Community College - Mason City

Agricultural Sales and Services

755 Northeast Iowa Technical Institute - Calmar:

Agribusiness Technology, seven quarters

760 Northwest Iowa Technical College - Sheldon:

Agribusiness Management, six quarters

765 Southeastern Community Coll. - West Burlington

Agriculture Supplies and Services Program,
four semesters plus two summer terms

775 Western Iowa Technical Comm. Coll. - Sioux City

Agribusiness Technology, six quarters



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HORTICULTURE

CISI NO. 1030

GROUP: 1000's - AGRIBUSINESS/AGRICULTURAL PRODUCTION

- Horticulture Programs include the principles and practices of the production and use of decorative plants. Display, planting, arranging and business management skills are included in many of the programs. Some graduates transfer to a four year school for a degree in Horticulture. The program lengths vary from four quarters to two years.

- Course work for the Horticulture Programs may include:

Botany	Salesmanship
Principles of Accounting	Horticulture
General Chemistry	English & Speech
Microbiology	Social Science
Production to Business	Humanities
Floral Design	Psychology
Retailing	Greenhouse Construction

- Course work is both classroom and laboratory experience. Park and golf course management, power equipment maintenance and operation, and practical work experience are available in some of the programs.
- Courses which would be helpful in preparing for Horticulture programs include general mathematics, vocational agriculture, communications, biology, business and chemistry.

- CISI occupations commonly entered by graduates include:

4746 Florist
4128 Forest Technician
4143 Groundskeeper
2371 Interior Designer
4145 Park Custodian
1149 Retail Store Manager
7454 Salesperson
2372 Visual Display Artist
4134 Wildlife/Conservation Aide

- Related military occupations include:

11490 Store Managers

- Six Iowa schools have reported programs in Horticulture.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

705 Des Moines Area Community College - Ankeny:

Commercial Horticulture, four terms

715 Hawkeye Institute of Technology - Waterloo:

Horticulture Science, six quarters

720 Indian Hills Community College - Ottumwa:

Horticulture, 12 months

725 Iowa Central Community College - Fort Dodge:

Horticulture Careers Program, two years

730 Iowa Lakes Community College - Emmetsburg:

Horticultural Careers, seven quarters

745 Kirkwood Community College - Cedar Rapids:

Floriculture, four quarters

Landscape, Nursery and Garden Center Management, six
quarters



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TURF MANAGEMENT

CISI NO. 1036

GROUP: 1000's - AGRIBUSINESS/AGRICULTURAL PRODUCTION

- Turf Management Programs include the principles of establishing, managing and maintaining grassed areas. The areas may be improved for decoration and/or recreational reasons. The program lengths vary from four to six quarters.
- Course work for Turf Management Programs may include:

Plant Pests and Diseases	Nursery Practices
Ecology and Conservation	Landscape Planning
Horticultural Equipment	Irrigation
Home Horticulture	Outdoor Plants
Horticultural Chemicals	Botany
Golf Course Practices	Turf Grass Science
- Elective courses may include nursery or golf course management. All programs include work experiences.
- Courses which would be helpful in preparing for Turf Management Programs include bookkeeping, vocational agriculture, mathematics, biology, communication skills and mechanics.
- CISI occupations commonly entered by graduates include:

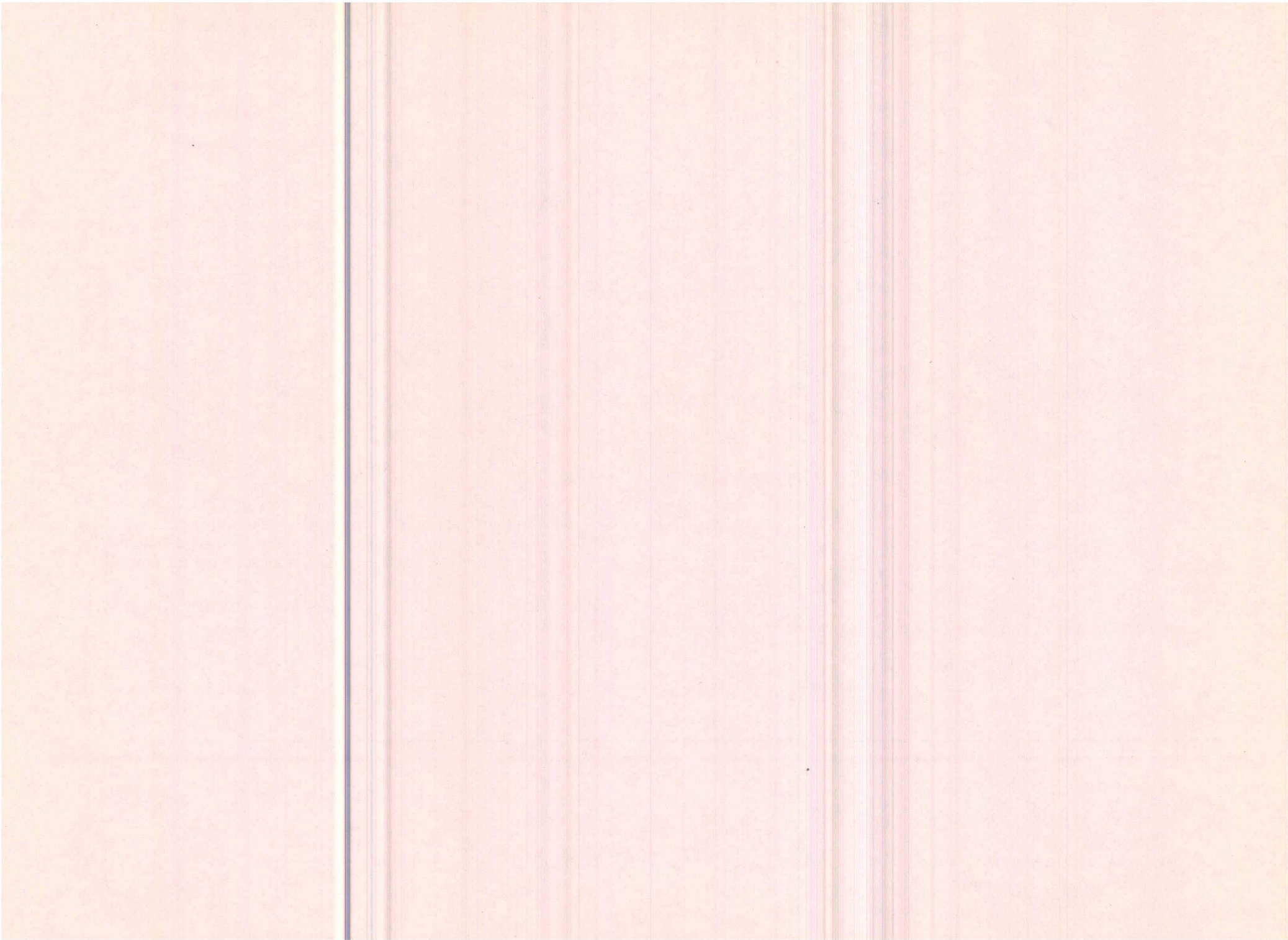
4128 Forest Technician
4143 Groundskeeper

4145 Park Custodian
4134 Wildlife/Conservation Aide

- Two Iowa schools have reported programs in Turf Management.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

745 Kirkwood Community College - Cedar Rapids:
Grounds and Turf Management, six quarters
775 Western Iowa Technical Comm. Coll. - Sioux City
Park and Golf Course Management, four quarters





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AGRICULTURAL SCIENCES

CISI NO. 1201

GROUP: 1200's - AGRICULTURAL SCIENCES

- Agricultural Sciences Programs include the methods of production, processing and distribution of food and fiber products. These programs emphasize the theory and production part of agriculture. One program allows the student to expand into international concepts of agriculture. The program length varies from two to four years.
- Course work for Agricultural Sciences Programs may include:

Animal Science	Soil Science
Agronomy	Related Sciences
Farm Management	Mathematics
- General liberal arts courses are taken during the first part of the program. Practical field experience is available.
- Courses which would be helpful in preparing for Agricultural Sciences Programs include science, vocational agriculture and mathematics.
- CISI occupations commonly entered by graduates include:

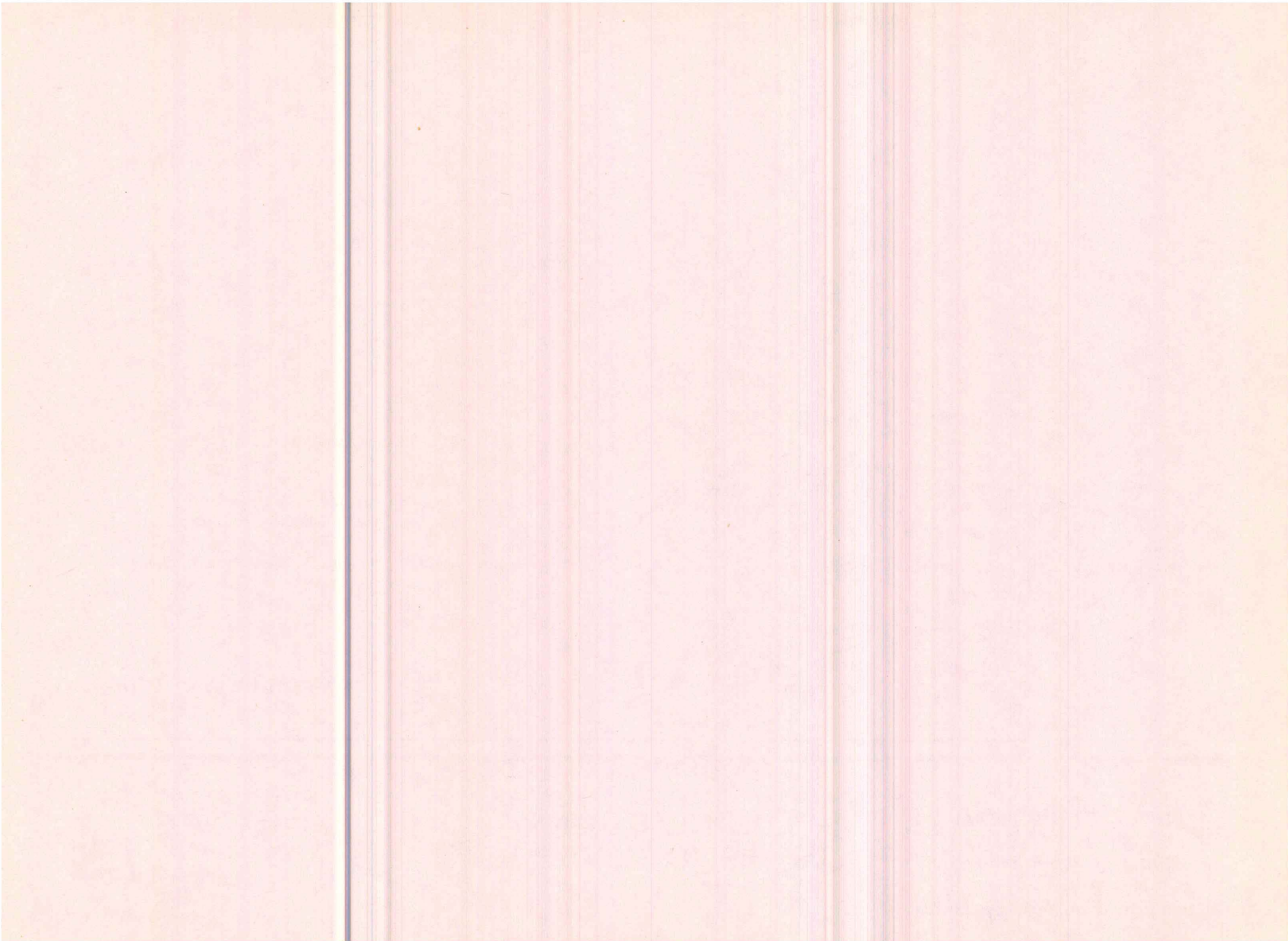
2643 Agronomist
2675 Agricultural Commodities Inspector
4161 Farm Manager
1183 Agricultural Products Buyer
7425 Agricultural Supplies Salesperson

4164 Farmer
1156 Grain Elevator Superintendent
2166 Researcher
7415 Securities/Commodities Sales Agent
2644 Soil Conservationist

- One Iowa school has reported a program in Agricultural Sciences.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

835 Dordt College - Sioux City:
Agriculture, four years
Associate of Arts Agriculture, two years





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ANIMAL SCIENCES

CISI NO. 1202

GROUP: 1200's - ANIMAL SCIENCES

- Animal Sciences Programs include the theory, principles and applications of the technical skills to the production and management of animals and animal products. Emphasis may be on livestock production and marketing. The length of the program is four years.
- Course work for Animal Sciences Programs may include:

Nutrition	Marketing
Breeding	Confinement Systems
Reproduction	Waste Systems
Livestock Products	Swine Complex Management
Enterprise Management	Sheep Production
Chemistry	Beef Production
Anatomy	Feed Grain Production
Genetics	Record Keeping
- Elective courses allow for specialization.
- Courses which would be helpful in preparing for Animal Sciences Programs include mathematics, chemistry, physics, biology, English, vocational agriculture and business courses.

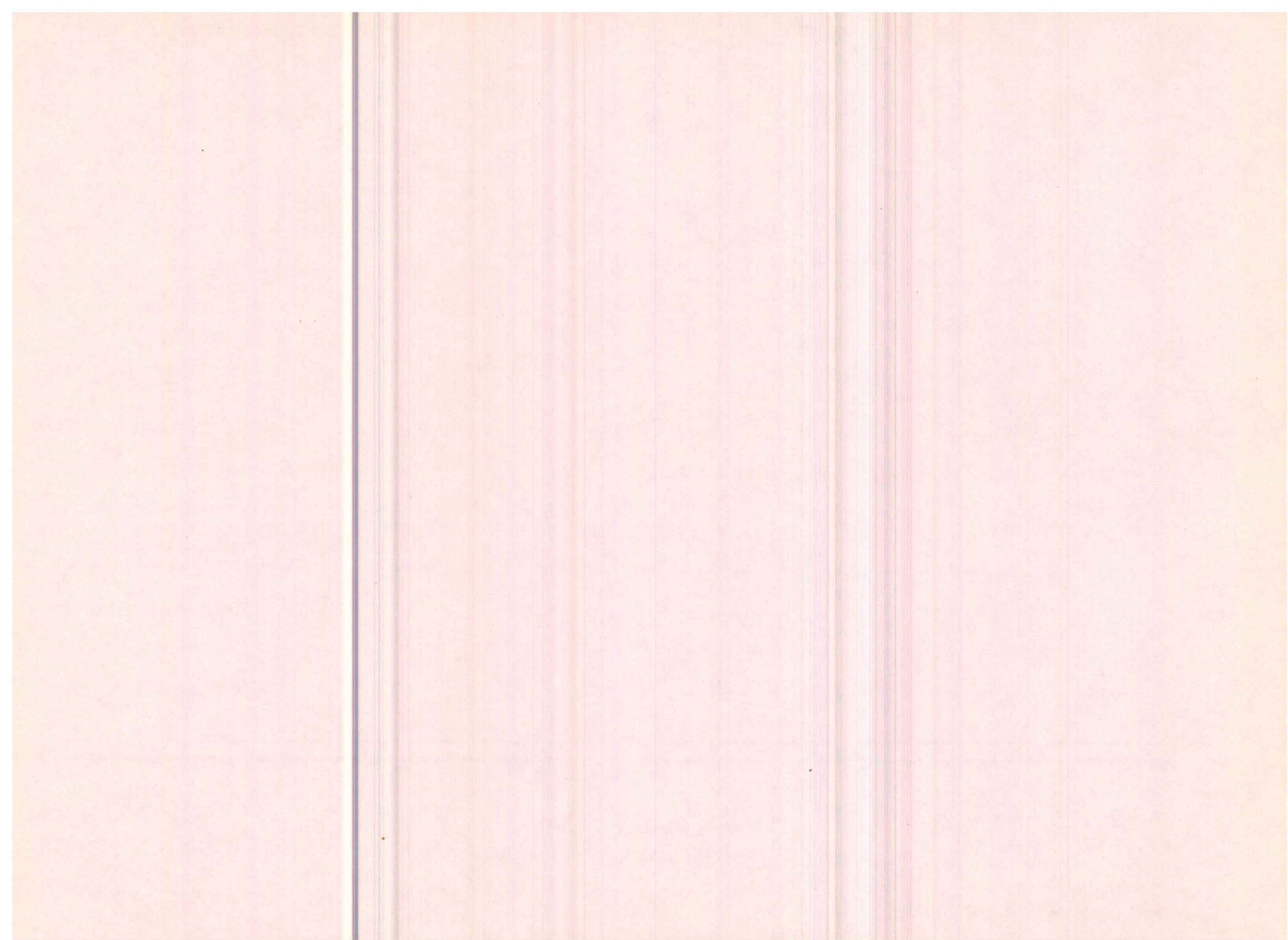
- CISI occupations commonly entered by graduates include:

2675 Agricultural Commodities Inspector
7424 Agricultural Equipment Salesperson
4161 Farm Manager
1183 Agricultural Products Buyer
7425 Agricultural Supplies Salesperson
4164 Farmer
1636 Loan Officer
2166 Researcher

- Two Iowa schools have reported programs in Animal Sciences.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

835 Dordt College - Sioux Center: Animal Science, four yrs
991 Iowa State University - Ames: Animal Science, four yrs





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ANIMAL HEALTH

CISI NO. 1204

GROUP: 1200's - AGRICULTURAL SCIENCES

- Animal Health Programs include the principles that affect the prevention and control of animal disease. These principles may include environment, drugs, antibiotics and blood tests. The program is three quarters in length.
- Course work for the Animal Health Programs may include:

Biology
Cattle Health
Small Animal Physiology
Livestock Evaluation
Breeding

Small Animal Health
Swine Health
Animal Health Products
Nutrition
Kennel Health Management

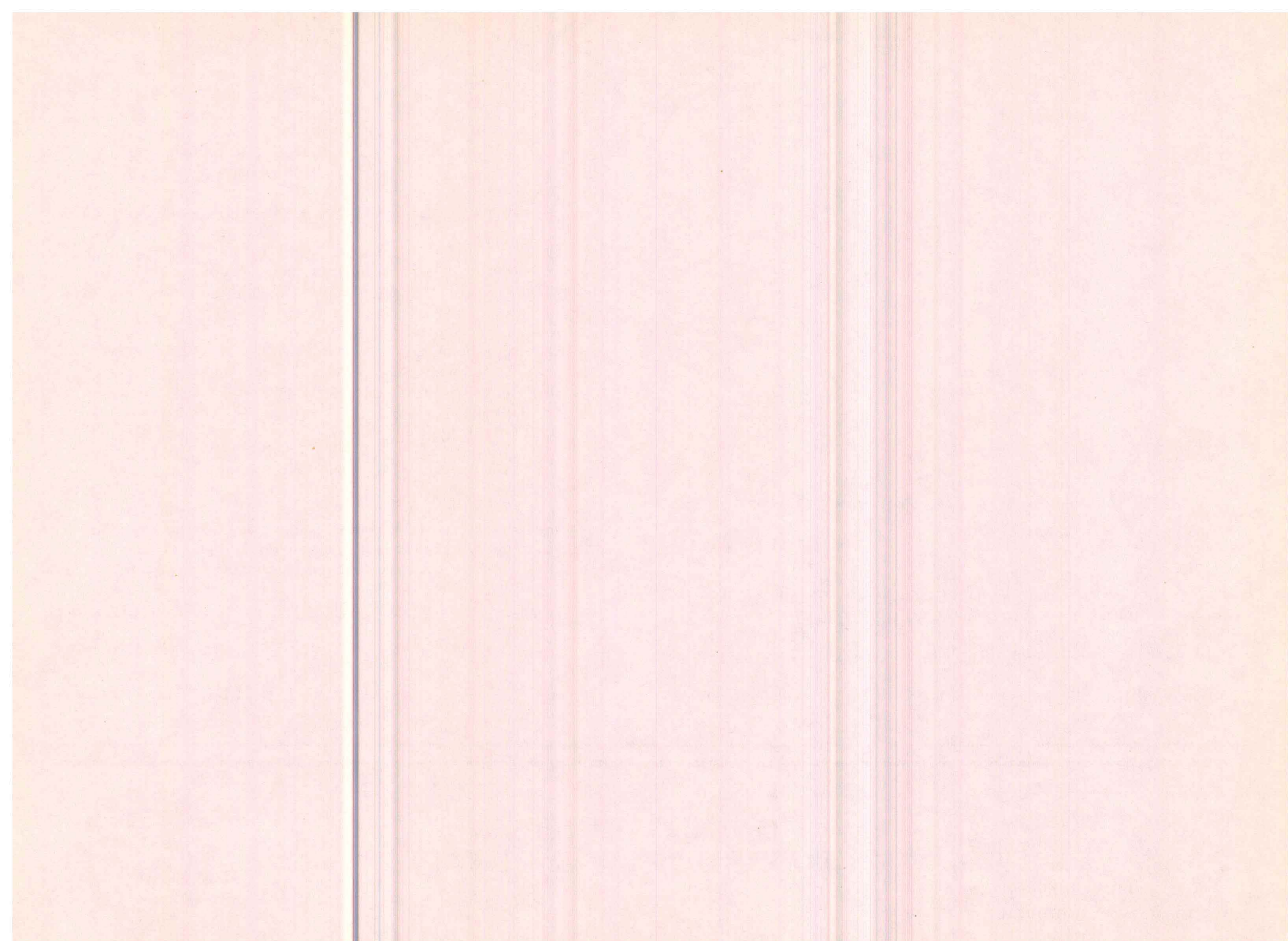
- Courses which would be helpful in preparing for the Animal Health Programs include vocational agriculture, biology, chemistry, accounting and typing.
- CISI occupations commonly entered by graduates include:

4174 Animal Caretaker
4166 Farm Worker
4164 Farmer
4134 Wildlife/Conservation Aide

- One Iowa school has reported a program in Animal Health.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

745 Kirkwood Community College - Cedar Rapids:
Small Animal Services, three quarters





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DAIRY

CISI NO. 1207

GROUP: 1200's - AGRICULTURAL SCIENCES

- Dairy Programs include the theory, principles and application of technical skills to the production and management of dairy farms. Program length is four years.

- Course work for Dairy Programs may include:

Milking Management
Farm Electricity
Herd Health
Dairy Nutrition
Dairy Evaluation
Welding

Swine Production
Grain Marketing
Planting Equipment
Agricultural Chemicals
Farm Records
Corn & Soybean Production

- Instruction is presented in both a classroom setting and a school operated dairy farm. Practical field experience on a farm is also a part of the curriculum. Elective courses allow for different areas of emphasis.
- Courses which would be helpful in preparing for Dairy Programs include vocational agriculture, science, chemistry, mathematics and communication skills.
- CISI occupations commonly entered by graduates include:

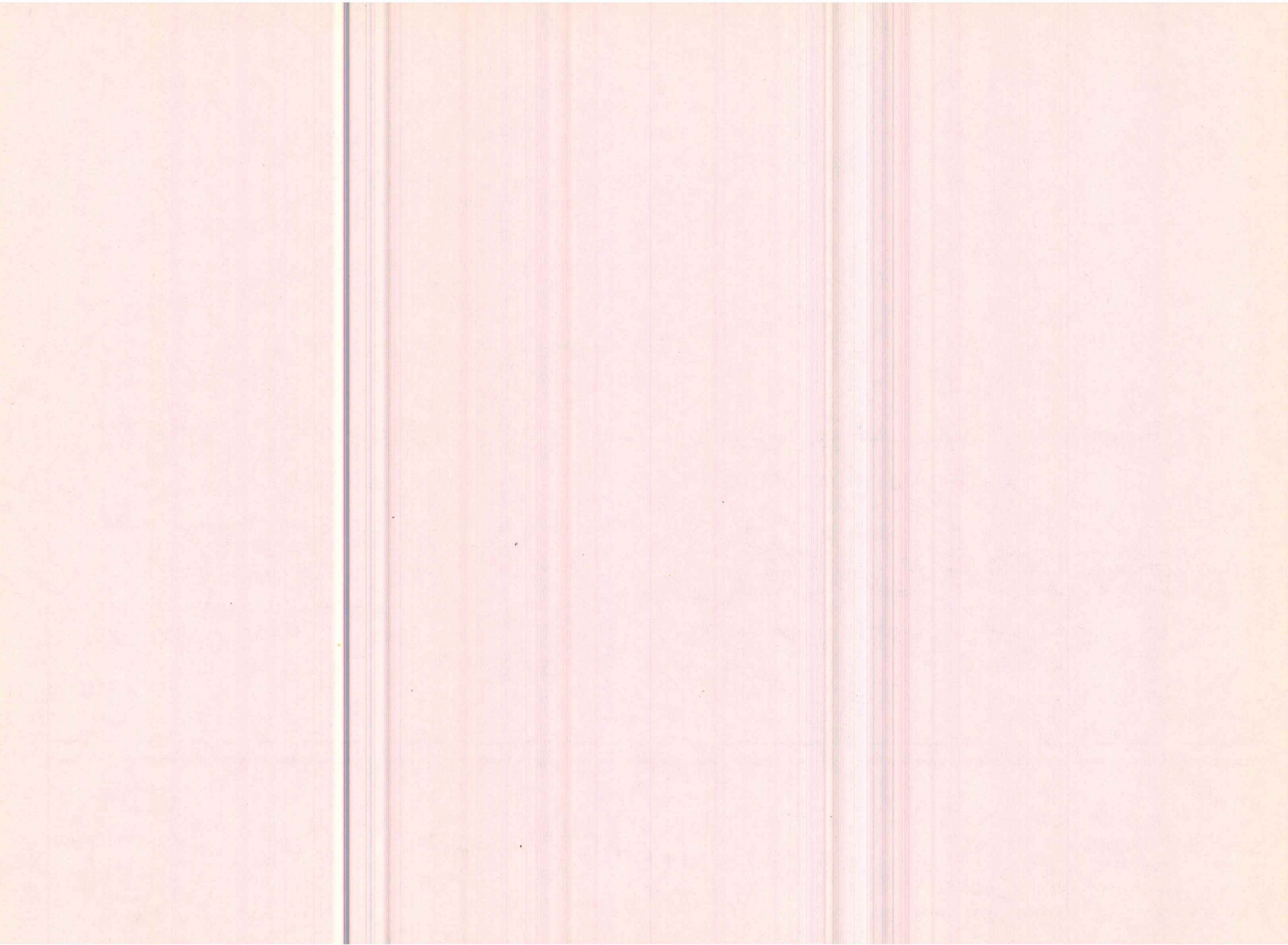
4161 Farm Manager

4166 Farm Worker
4164 Farmer

- One Iowa school has reported a program in Dairy.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

991 Iowa State University - Ames: Dairy Science, four years





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LIVESTOCK

CISI NO. 1209

GROUP: 1200's - AGRICULTURAL SCIENCES

- Livestock Programs include the theories, principles and applications of the production and management of livestock products. Different programs stress different areas of livestock production. The program is six quarters to two years in length.

- Course work for Livestock Programs may include:

Health
Nutrition
Record Keeping
Mathematics
Breeding

Management
Judging
Training
Shows
Communication

- Instruction is presented both in a classroom setting and in the school operated livestock facilities. Cooperative work experience may be available.
- Courses which would be helpful in preparing for Livestock Programs include vocational agriculture, typing, bookkeeping, biology, mathematics, English, economics and industrial arts.
- CISI occupations commonly entered by graduates include:

2675 Agricultural Commodities Inspector
4161 Farm Manager

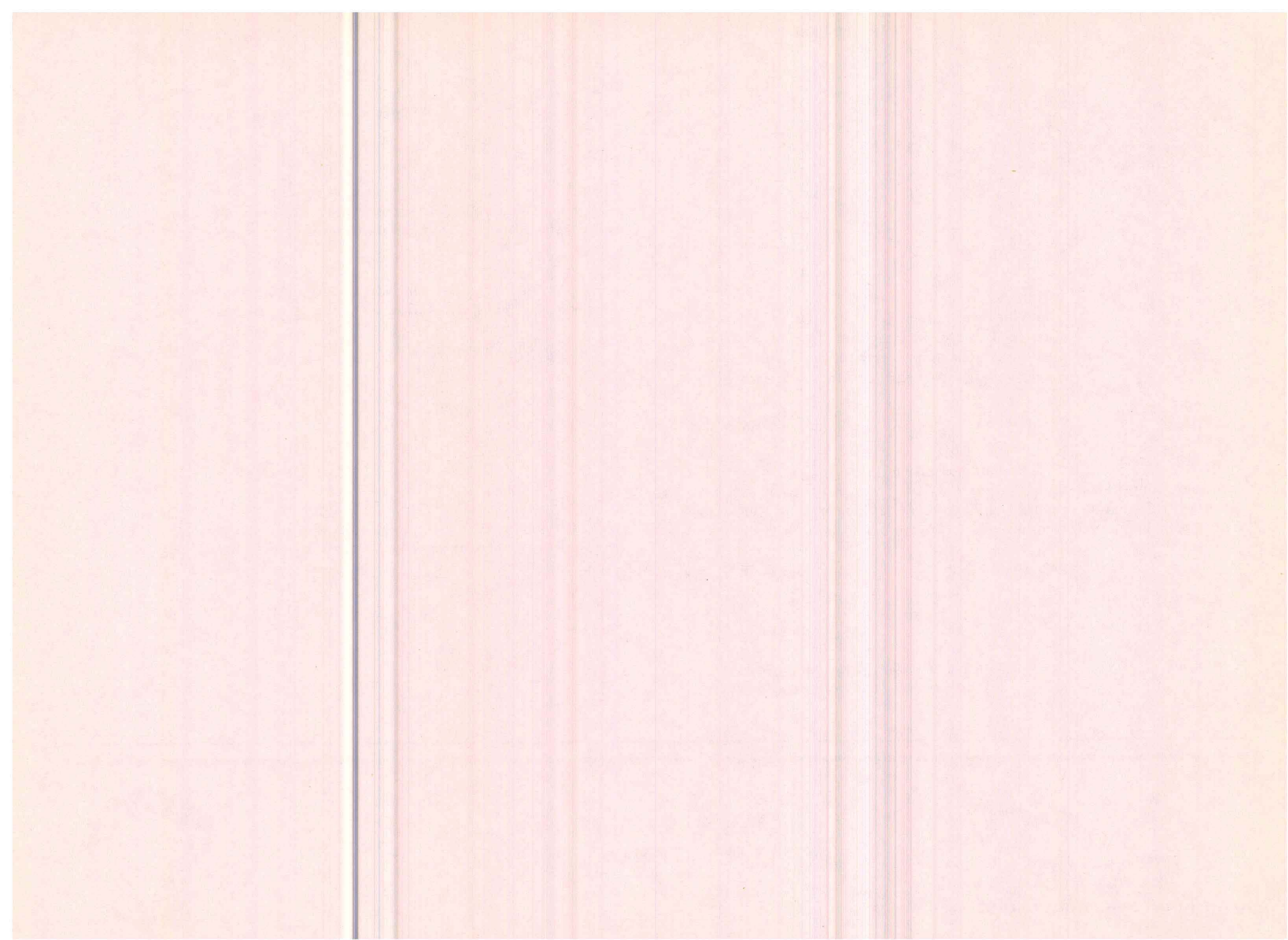
1183 Agricultural Products Buyer
7425 Agricultural Supplies Salesperson
4164 Farmer
1636 Loan Officer
2166 Researcher

- Two Iowa school has reported a program in Livestock.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

735 Iowa Valley Community College - Ellsworth
Equine Management, four semesters

745 Kirkwood Community College - Cedar Rapids:
Horse Science Technology, six quarters





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FOOD SCIENCE

CISI NO. 1217

GROUP: 1200's - AGRICULTURAL SCIENCES

- Food Science Programs include the principles and practices used to convert plants and animals to food. Preserving of the food from harvest to the consumer is also part of the program. Processing and storage before transporting and merchandising of the products may be involved. The program length is four years.
- Course work for the Food Science Programs may include:

Food Chemistry	Bacteriology
Food Sanitation	Economics
Food Regulations	Statistics
Chemistry	Communication
- Industry work assignments are set up during summer vacation for either program option: the business or scientific areas of food technology.
- Courses which would be helpful in preparing for Food Science Programs include science, mathematics and business courses.
- CISI occupations commonly entered by graduates include:

2625 Chemist
2675 Agricultural Commodities Inspector
1183 Agricultural Products Buyer

7425 Agricultural Supplies Salesperson
2693 Laboratory Tester
7414 Manufacturer's Representative
1154 Production Supervisor
2673 Quality Control Technician
2166 Researcher
1181 Wholesale/Retail Buyer

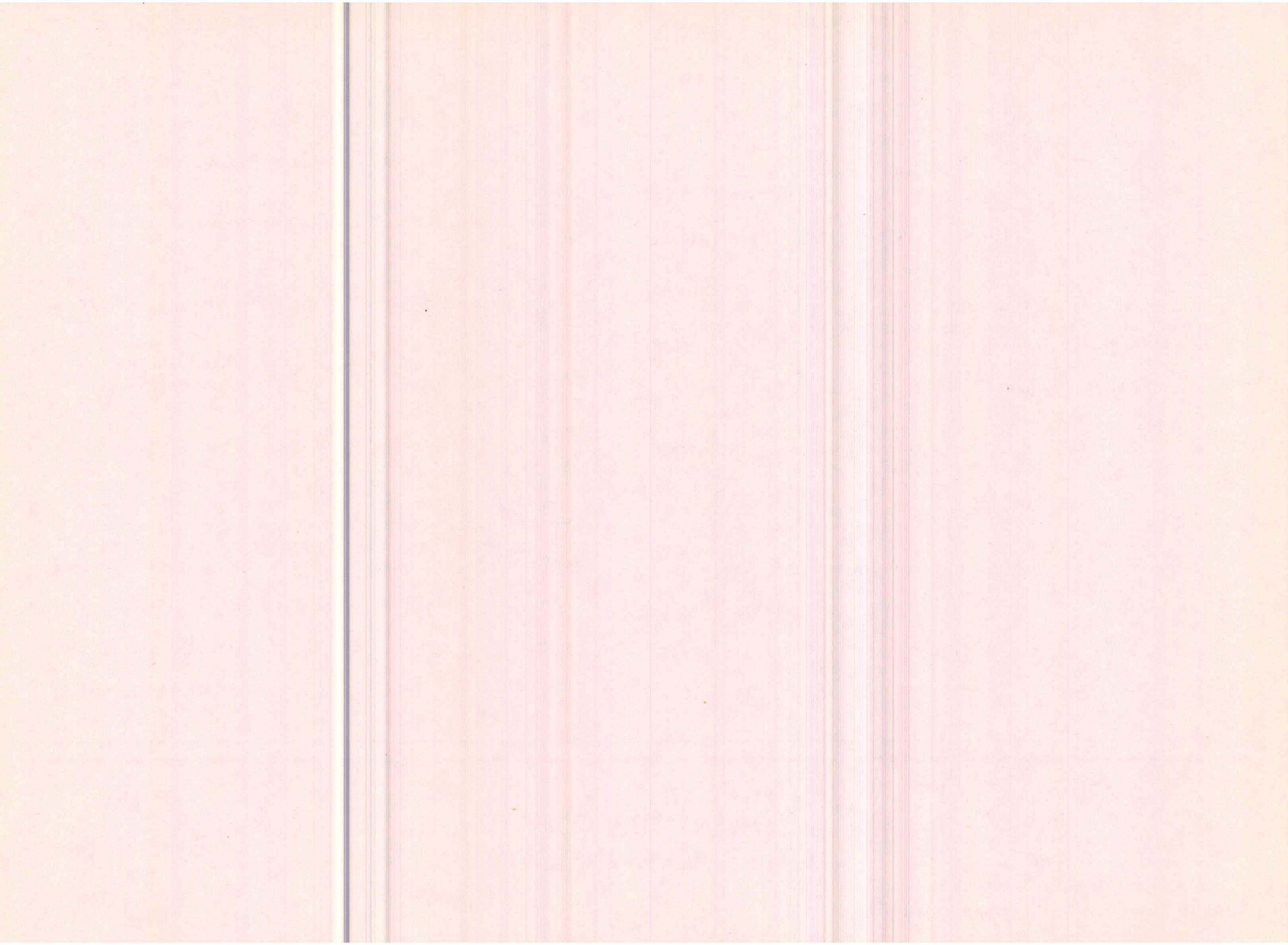
- Related military occupations include:

26250 Chemists
26931 Fuel & Chemical Lab Technicians
26730 Non-Destructive Testers
26731 Survival Equipment Specialists

- One Iowa school has reported a program in Food Science.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

991 Iowa State University - Ames
Food Technology, four years





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AGRONOMY

CISI NO. 1220

GROUP: 1200's - AGRICULTURAL SCIENCES

- Agronomy Programs include the principles and practices of the development, production and management of field crops. The study includes breeding, diseases, soils, insect and weed control. The program length is four years. Advanced degrees in these and related agricultural areas are also an option.
- The basic course work is in the biological and physical sciences. It varies with the area of emphasis chosen.
- Some of the areas of specialization include agronomic science, agricultural climatology, crop production, agricultural chemicals, and soil conservation.
- CISI occupations commonly entered by graduates include:
 - 2643 Agronomist
 - 2675 Agricultural Commodities Inspector
 - 4161 Farm Manager
 - 1183 Agricultural Products Buyer
 - 7425 Agricultural Supplies Salesperson
 - 4164 Farmer
 - 2166 Researcher
 - 8454 University/College Teacher

- Related military occupations include:

84540 Teachers and Instructors

- Three Iowa schools have reported programs in Agronomy.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

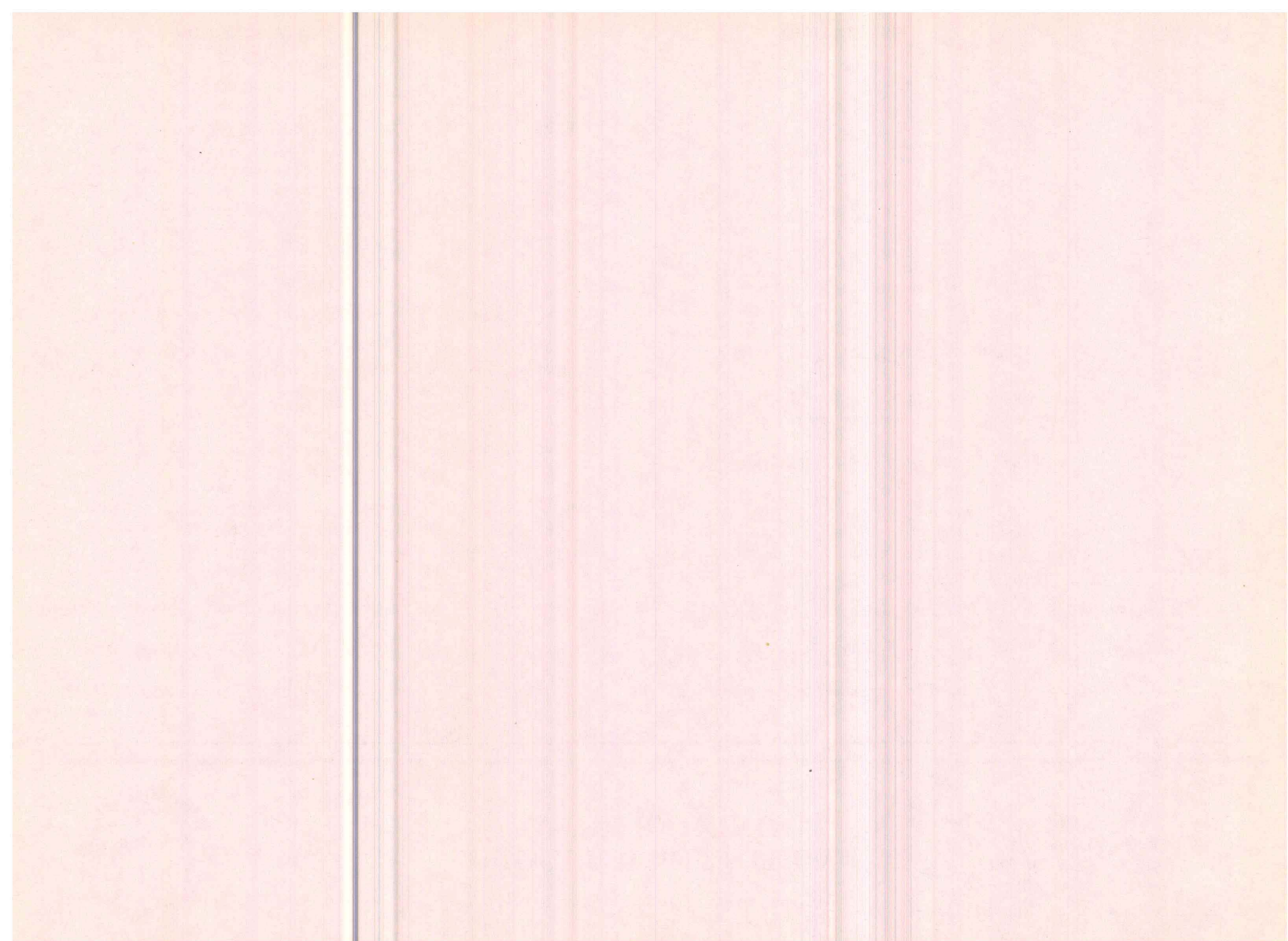
AREA SCHOOLS

750 North Iowa Area Community College - Mason City
Agricultural Bio-technology

COLLEGES AND UNIVERSITIES

835 Dordt College - Sioux Center
Plant Science, four yrs

991 Iowa State University - Ames:
Agronomy, four years
Seed Science, four years





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HORTICULTURE SCIENCE

CISI NO. 1221

GROUP: 1200's - AGRICULTURAL SCIENCES

- Horticulture Science Programs include the principles and practices of fruit and vegetable production. The control of pests and plant diseases may be included in the program. The length of the programs is four years.
- The program allows emphasis in: science, production business management, communication, public service. Work experience is included.
- Courses which would be helpful in preparing for Horticulture Science include biology and environmental subjects and the sciences.
- CISI occupations commonly entered by graduates include:

2675 Agricultural Commodities Inspector
4161 Farm Manager
1183 Agricultural Products Buyer
4164 Farmer
2611 Life Scientist
2676 Pest Control Technician
2166 Researcher
8454 University/College Teacher

- Related military occupations include:

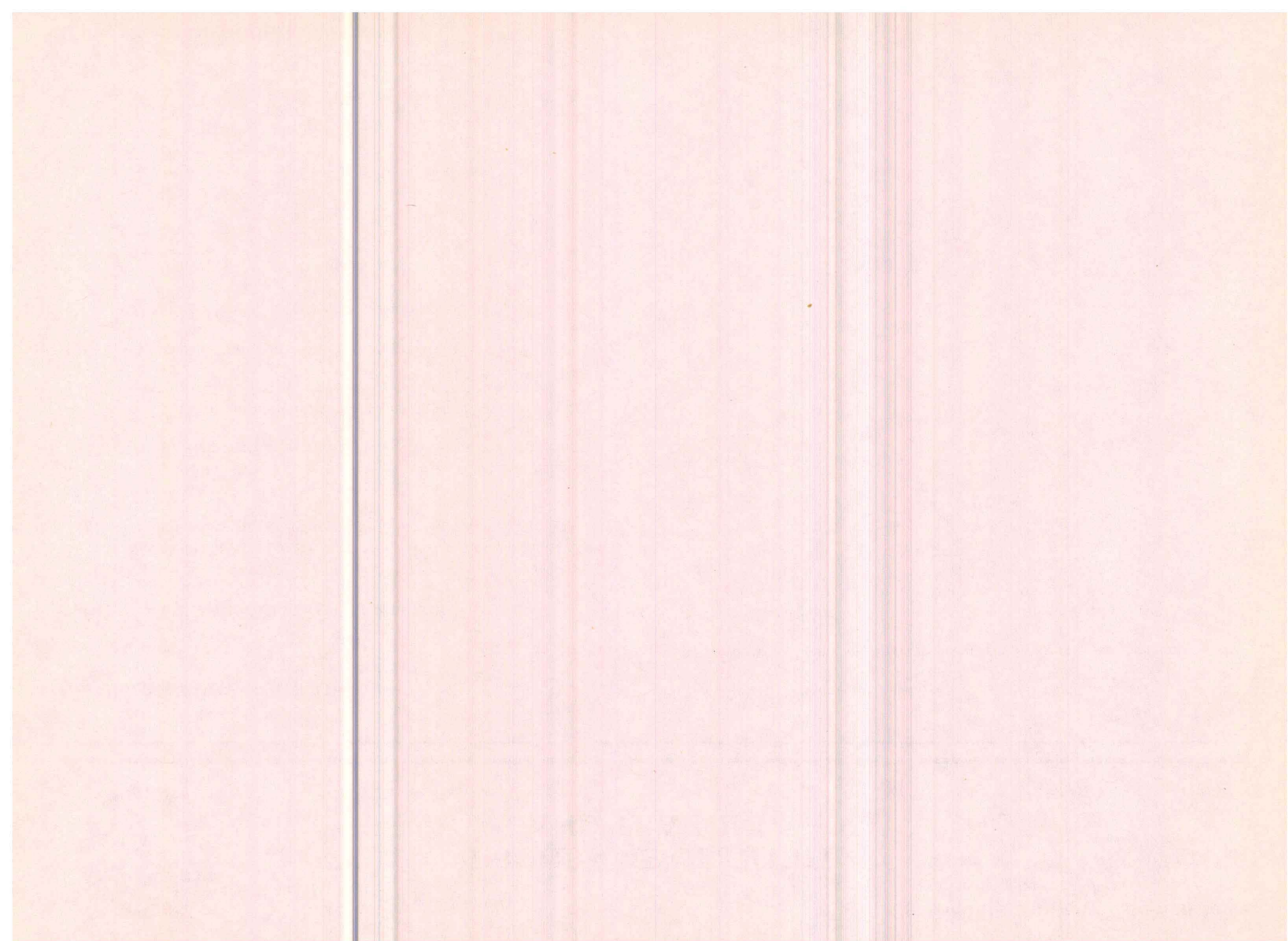
26110 Life Scientists

84540 Teachers and Instructors

- One Iowa school has reported programs in Horticulture Science.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

991 Iowa State University - Ames:
Horticulture, four years





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PLANT PROTECTION

CISI NO. 1226

GROUP: 1200's - AGRICULTURAL SCIENCES

- Plant Protection Programs focus on minimizing loss caused by plant pests. Prevention of infestation and control of pests are primary areas of concern. The program length is four years.

- Course work for Plant Protection Programs may include:

Entomology	Agricultural Chemicals
Pest Management	Meteorology
Weed Identification	Ecology
Plant Pathology	

- Summer employment in related areas is encouraged.
- Courses which would be helpful in preparing for Plant Protection Programs include Biology, Chemistry and Mathematics.
- CISI occupations commonly entered by graduates include most areas of agriculture in addition to:

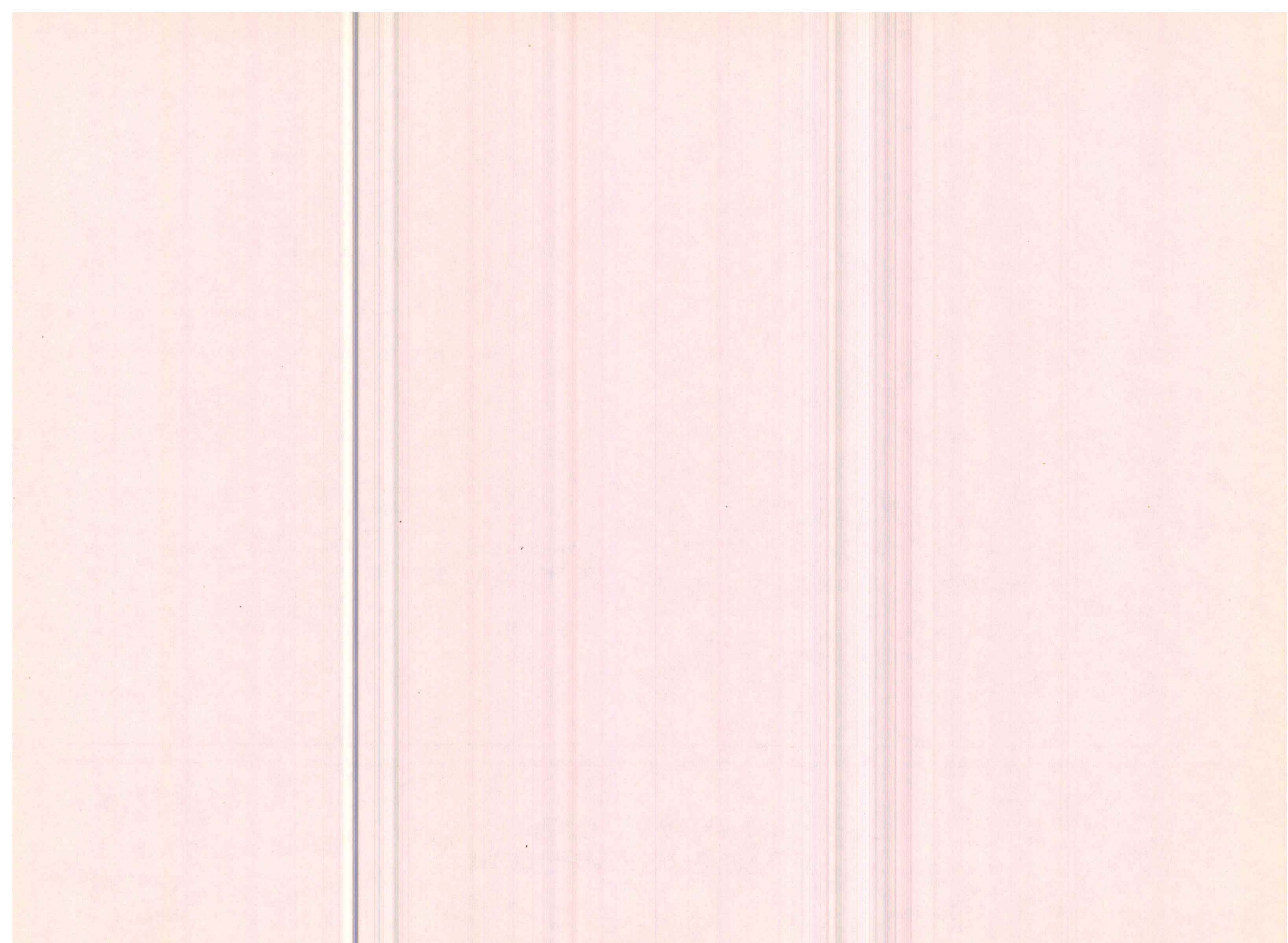
7425 Agricultural Supplies Salesperson
2611 Life Scientist
2676 Pest Control Technician
2166 Researcher

- One Iowa school has reported a program in Plant Protection.

- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

991 Iowa State University - Ames
Pest Management, four years
Plant Pathology, four years





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RENEWABLE NATURAL RESOURCES

CISI NO. 1301

GROUP: 1300's - RENEWABLE NATURAL RESOURCES

- Renewable Natural Resources programs include the activities used in conservation and/or improvement of natural resources. The natural resources may be used for economic or recreational purposes. Natural Resources include: air, soil, water, land, fish and wildlife. The program length varies from six quarters to four years. Graduates of the two year program may transfer to complete a Bachelor's degree.

- Course work for Renewable Natural Resources Programs may include:

Atmospheric Studies
Environmental Health
Environ. Impact Statements
Industrial Hygiene
Water Pollution

Ecology
Zoology
Biology
Microbiology
Aquatics

- Course work is presented in both the classroom and laboratory setting. Work experience is available in some programs. The course work is liberal arts stressing science and math. Electives may be chosen in such areas as: energy conservation and writing environmental impact statements.
- Courses which would be helpful in preparing for Renewable Natural Resources Programs include chemistry, biology, mathematics, physics and social sciences.

- CISI occupations commonly entered by graduates include:

4128 Forest Technician
4145 Park Custodian
2673 Quality Control Technician
2166 Researcher
2674 Sanitarian
5946 Sewage Plant Operator
2644 Soil Conservationist
2315 Urban Planner
4134 Wildlife/Conservation Aide

- Related military occupations include:

26730 Non-Destructive Testers
26731 Survival Equipment Specialists
94822 Environmental Health Specialists
94821 Industrial Hygienists
59460 Water/Sewage Treatment Plant Operators

- Ten Iowa schools have reported programs in Renewable Natural Resources.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

- 710 Eastern Iowa Community College** - Muscatine:
Conservation, two years
- 735 Iowa Valley Community College District** -
Ellsworth: Conservation Technician, two years
- 745 Kirkwood Community College** - Cedar Rapids:
Parks and Natural Resources, six quarters

COLLEGES AND UNIVERSITIES

- 835 Dordt College** - Sioux Center
Environmental Studies four years
- 905 Northwestern College** - Orange City
Conservation of Natural Resources, four years
- 920 Simpson College** - Indianola
Environmental Studies, four years
- 925 University of Dubuque** - Dubuque
Environmental Science, four years
- 995 University of Northern Iowa** - Cedar Falls:
Environmental Planning, four years
- 935 Upper Iowa University** - Fayette:
Conservation Management, four years
- 991 Iowa State University** - Ames
Environmental Studies, four years



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FORESTRY SCIENCE

CISI NO. 1317

GROUP: 1300's - RENEWABLE NATURAL RESOURCES

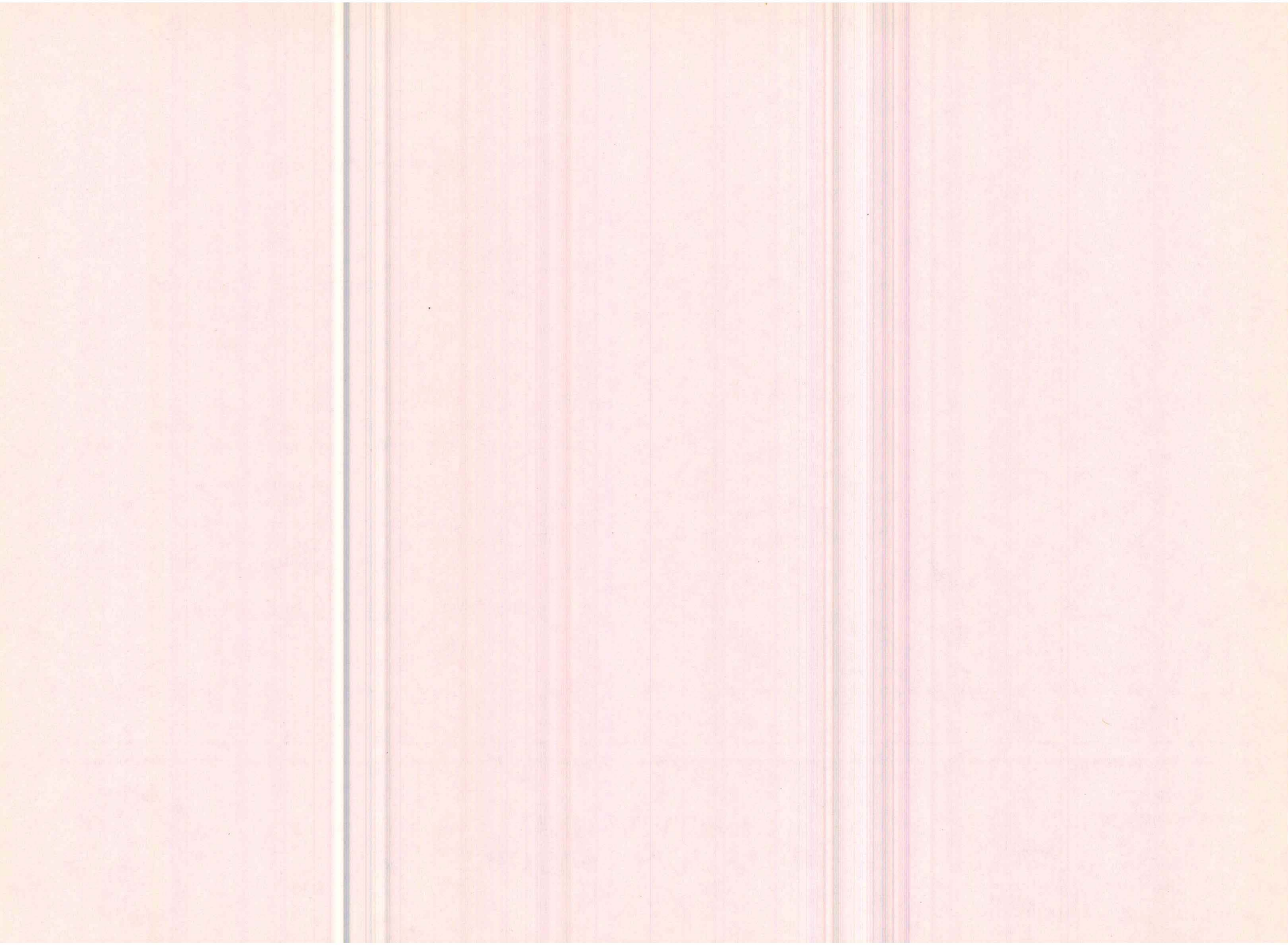
- Forestry Science Programs include the management and use of all natural resources on and in the forest. The length of the program varies from two to four years. After programs of less than four years, students must transfer to a college accredited by the Society of American Foresters to complete a degree.
- Options for specialization include: forest resources, environmental management, forest products, recreation and protection. Summer field experiences and off-campus forestry experiences are part of the programs.
- Courses which would be helpful in preparing for Forestry Science Programs include the biological sciences.
- CISI occupations commonly entered by graduates include:
 - 4128 Forest Technician
 - 4124 Forester
 - 4134 Wildlife/Conservation Aide
- Two Iowa schools have reported programs in Forestry Science.

- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

991 Iowa State University - Ames
Forestry, four years

865 Iowa Wesleyan College - Mount Pleasant
Forestry, two years





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WILDLIFE MANAGEMENT

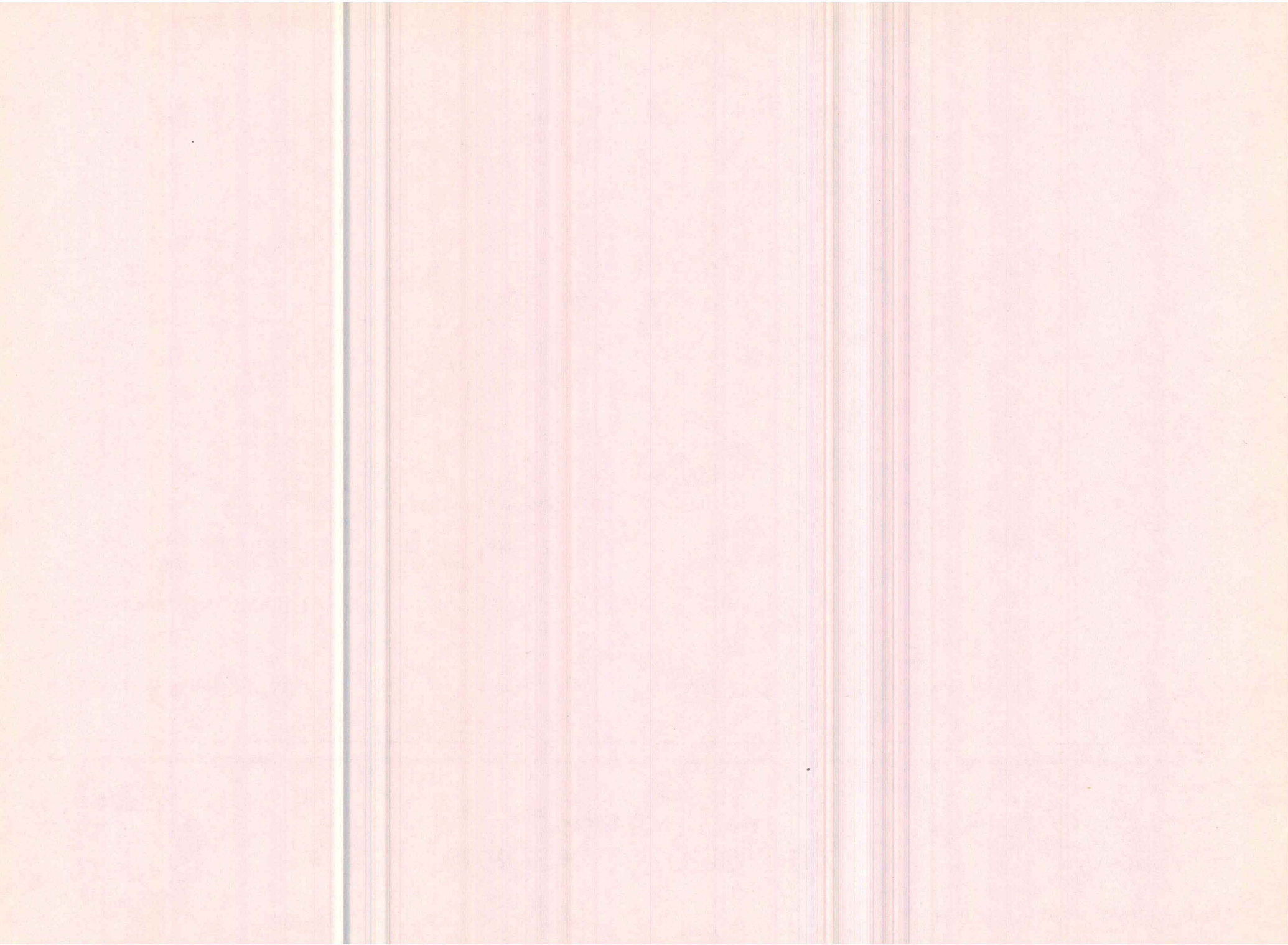
CISI NO. 1326

GROUP: 1300's - RENEWABLE NATURAL RESOURCES

- Wildlife Management Programs include the principles and practices used to produce and improve wildlife resources. The improvement of wildlife resources may be for beautification, ecological and/or recreational use of public and private lands. The program length is four years.
- Course work is built on sciences. Options for emphasis may be fisheries, wildlife, biology, and ecology.
- Courses which would be helpful in preparing for Wildlife Management Programs include chemistry, biology, physics and mathematics.
- CISI occupations commonly entered by graduates include:
 - 4124 Forester
 - 2166 Researcher
 - 4134 Wildlife/Conservation Aide
- One Iowa school has reported a program in Wildlife Management.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

991 Iowa State University - Ames
Fisheries & Wildlife Biology, four years





PROGRAMS OF STUDY AND TRAINING

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ARCHITECTURE

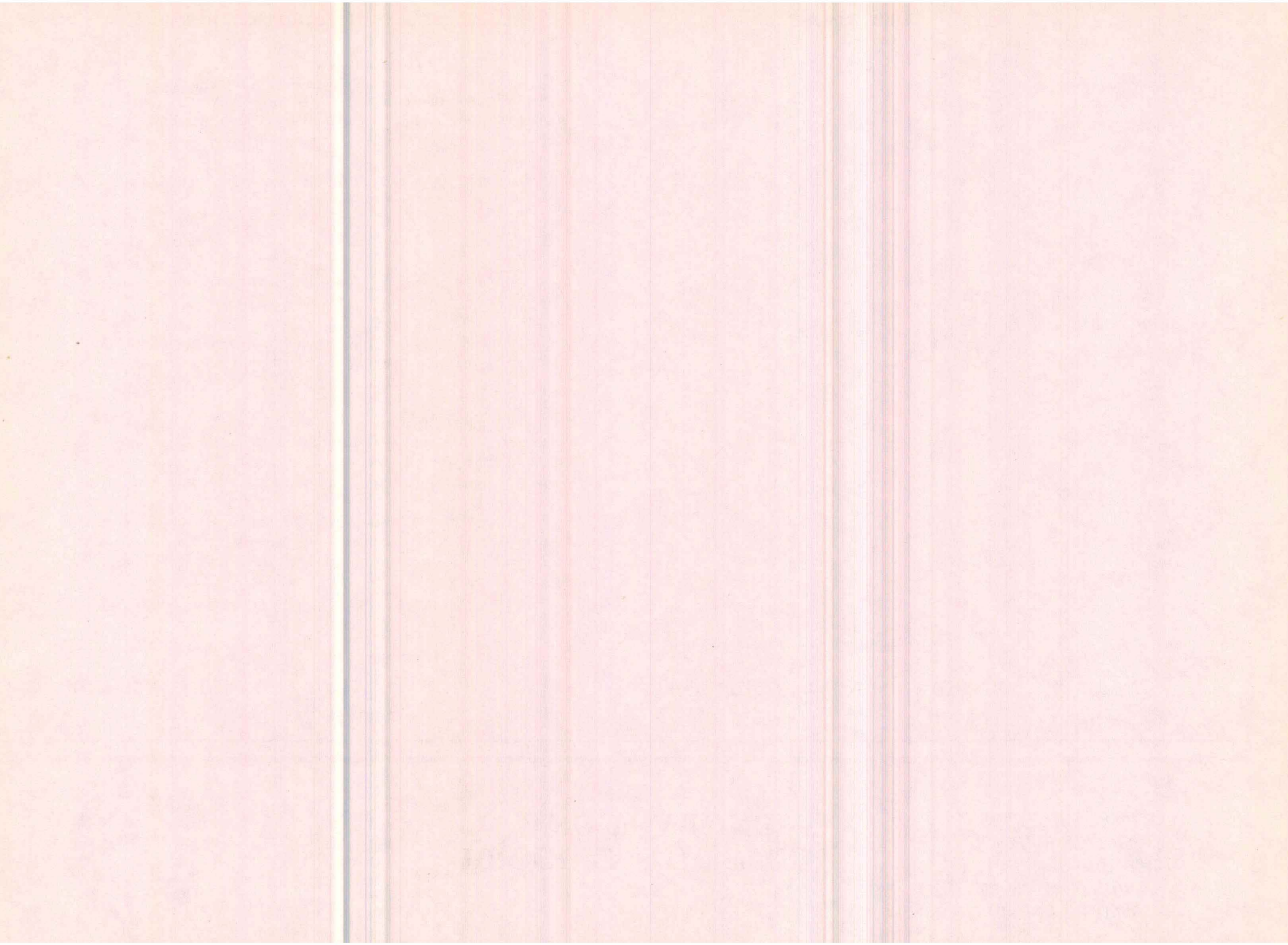
CISI NO. 1502

GROUP: 1500's - ARCHITECTURE AND ENVIRONMENTAL DESIGN

- Architecture Programs include the methods used to design with patterns, forms and structures. Consideration of the natural environment is also stressed. The program length is four years.
- Course work includes sciences and humanities, architectural design, history and theory. Specialization is possible in energy systems engineering, housing design and community planning. An internship is required before licensing by the Iowa State Board of Architectural Examiners.
- Courses which would be helpful in preparing for the Architecture Programs include algebra, geometry, trigonometry, physics and chemistry.
- CISI occupations commonly entered by graduates include:
 - 2316 Architect
 - 2315 Urban Planner
- One Iowa schools have reported programs in Architecture.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

991 Iowa State University - Ames
Architecture, four years





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CITY, COMMUNITY AND REGIONAL PLANNING

CISI NO. 1503

GROUP: 1500's - ARCHITECTURE AND ENVIRONMENTAL DESIGN

- City, Community and Regional Planning Programs include the planning process for the development of the environment. The environment deals with urban, regional and other geographically distinct areas. A graduate level program in urban and regional planning is also available. The program length is four years.
- Course work for City, Community and Regional Planning Programs may include:
 - Quantitative Methods of Analysis
 - Special Organization of Human Activities
 - Computer Programming
 - Maps
 - Computer Graphics
 - Urban Geography
 - Metropolitan Growth & Development
- Internships are available and recommended. Areas of emphasis may include urban design, transportation planning and regional and state planning.
- Courses which would be helpful in preparing for City, Community and Regional Planning Programs include English, social science, government, statistics, mathematics, economics and political science.

- CISI occupations commonly entered by graduates include:

2316 Architect
1138 Public Administrator/Official
2315 Urban Planner

- Related military occupations include:

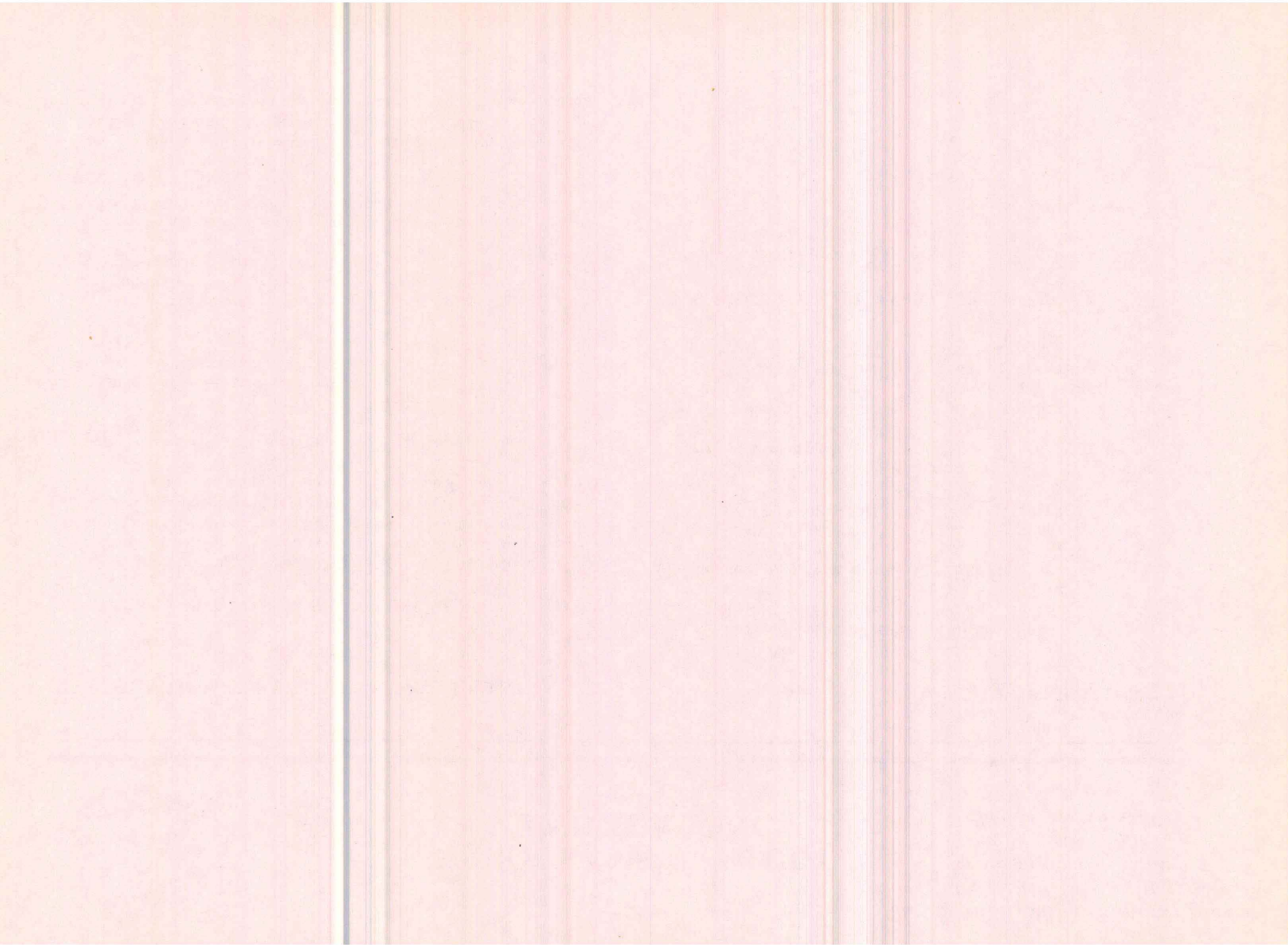
11001 Management Analysts
11381 Postal Directors

- One Iowa school has reported a program in City, Community and Regional Planning.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

991 Iowa State University - Ames

Community and Regional Planning, four years





PROGRAMS OF STUDY AND TRAINING

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AREA STUDIES

CISI NO. 1701

GROUP: 1700's - AREA AND ETHNIC STUDIES

- Area Studies Programs include the study of a specific geographic area. The programs include the history, politics, culture and economics of that area. The program lengths are four years.

- Course work for Area Studies Programs may include:

Government	Foreign Language
Literature	History
Civilization	Geography
Comparative Economics	Russian Geography
Art and Architecture	Economics
Philosophy	Minority Studies
Religion	Women's Studies

- Internships and foreign study opportunities are available in most programs and required in some.
- Courses which would be helpful in preparing for Area Studies Programs include communication skills, history, literature, social science, geography and foreign languages.
- CISI occupations commonly entered by graduates include:

2173 Reporter
8456 Secondary Teacher

8417 Social Worker
8454 University/College Teacher

- Related military occupations include:

21730 Reporters and Newswriters
84560 Trainers
84540 Teachers and Instructors

- Five Iowa schools have reported programs in Area Studies.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

810 Central College - Pella
Latin American Studies, four years

820 Coe College - Cedar Rapids
American Studies, four years
Asian Studies Concentration, four years

860 Grinnell College - Grinnell
American Studies, four years

993 University of Iowa - Iowa City
American Studies, four years
Asian Studies, four years
Latin American Studies, four years

995 University of Northern Iowa - Cedar Falls

American Studies, four years

Asian Studies, four years

European Studies, four years

Latin American Studies, four years

Russian Area Studies, four years



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ETHNIC STUDIES

CISI NO. 1702

GROUP: 1700's - AREA AND ETHNIC STUDIES

- Ethnic Studies Programs include the study of the history, politics, culture and economics of specific ethnic groups. The program lengths are four years.

- Course work for the American Indian Studies Programs may include:

Geography
History
Political Science
Sociology
Art

Business Administration
English Composition
Literature
Culture
Literature

- Field trips and internships may be available as part of the programs.
- Courses which would be helpful in preparing for Ethnic Studies Programs include history, sociology and general college preparatory courses.
- CISI occupations commonly entered by graduates include:

8488 Community Organization Worker
8456 Secondary Teacher
8417 Social Worker
1138 Public Administrator/Official
8454 University/College Teacher

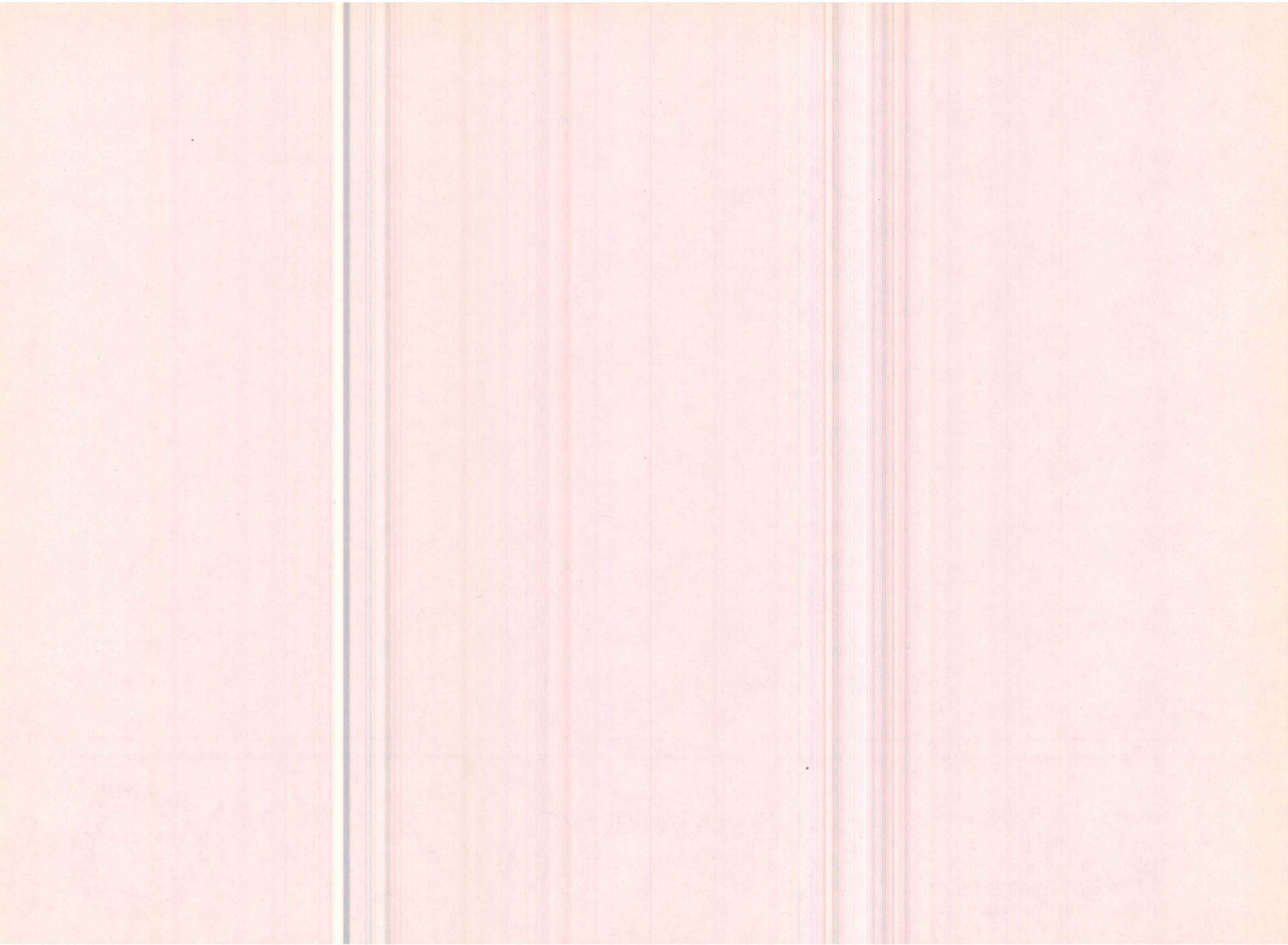
- Related military occupations include:

84170 Social Workers
84560 Teachers
84540 Trainers and Instructors
11001 Management Analysts
11381 Postal Directors

- Four Iowa schools have reported programs in Ethnic Studies.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

- 820 Coe College** - Cedar Rapids
Afro-American Studies, four years
- 875 Luther College** - Decorah
Afro-American Studies, four years
- 890 Morningside College** - Sioux City
Indian Tribal Management, four years
Indian Studies, four years
- 920 Simpson College** - Indianola
Ethnic and Minority Studies, four years





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ACCOUNTING

CISI NO. 1802

GROUP: 1800's - BUSINESS AND MANAGEMENT

- Accounting Programs include the principles, procedures and theories used for financial transactions. Organizing, maintaining and auditing the financial transactions is also part of the program. Shorter programs emphasize the basic principles of accounting. Longer programs expand into other areas such as tax cost and payroll accounting. The program length varies from two quarters to four years.

- Course work for Accounting Programs may include:

Communication Skills
Business Mathematics
Business Machines
Payroll Procedures
Cost Accounting
Data Processing

Federal Taxes
Business Law
Accounting
Auditing
Typing

- Options for emphasis include: marketing, investments, personnel and records management. Cooperative work experiences, practicums and internships may be available. Some include an accounting laboratory which is a simulated job experience.
- Courses which would be helpful in preparing for Accounting Programs include mathematics, bookkeeping, economics, English, speech, business law, typing and office machines.

- CISI occupations commonly entered by graduates include:

1614 Accountant
1617 Accounting Technician
1621 Billing Clerk
1616 Bookkeeper
1638 Credit Manager
1618 Estimator
1411 Office Manager
1628 Payroll/Timekeeping Clerk
1612 Revenue Agent
1622 Statistical Clerk

- Related military occupations include:

16140 Accountants and Auditors
16160 Accounting Specialists
16220 Maintenance Data Specialists
16280 Payroll Specialists

- Forty-one Iowa schools have reported programs in Accounting.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

SPECIALIZED SCHOOLS

- 210 American Institute of Business** - Des Moines:
Accounting & Business Administration, seven quarters
Accounting & Financial Management, eight quarters
General Accounting, eight quarters
- 220 American Institute of Commerce** - Bettendorf
Junior Accounting, four quarters
- 230 American Institute of Commerce** - Cedar Falls
Accounting, four quarters
Business Accounting, two quarters
- 240 Hamilton Business College** - Cedar Rapids:
Administrative Accounting, 18 months
Administrative Accounting/Microcomputer, 18 months
Professional Accounting, 12 months
- 250 Hamilton Business College** - Mason City:
Administrative Accounting, 18 months
Administrative Accounting/Microcomputer, 18 months
Accounting Specialist, 12 months
- 260 Spencer School of Business** - Spencer
Advanced Accounting, 10 months

AREA SCHOOLS

- 705 Des Moines Area Community College** - Ankeny:
Accounting Specialist, five terms
- 710 Eastern Iowa Comm. Coll.** -
Bettendorf: Accounting Technology, two yrs
Muscatine: Accounting Specialist, two yrs
- 715 Hawkeye Institute of Technology** - Waterloo:
Accounting, six quarters
- 735 Iowa Valley Community College** -
Iowa Falls: Accounting, two years
Marshalltown: Accounting, two years
- 745 Kirkwood Community College** - Cedar Rapids:
Accounting Technology, six terms
- 750 North Iowa Area Community College** - Mason City
Accounting, two years

755 Northeast Iowa Technical Institute -

- Calmar: Accounting Specialist, six quarters
Calmar: Accounting, three quarters
Peosta: Accounting Specialist, six quarters

760 Northwest Iowa Technical College - Sheldon:

- Accounting Specialist, four quarters

770 Southwestern Community College - Creston:

- Accounting, two years

775 Western Iowa Technical Comm. Coll. - Sioux City

- Accounting Specialist, seven quarters

COLLEGES AND UNIVERSITIES

800 Briar Cliff College - Sioux City

- Accounting, four years

805 Buena Vista College - Storm Lake

- Accounting, four years

810 Central College - Pella

- Accounting, four years

815 Clarke College - Dubuque

- Accounting, four years

820 Coe College - Cedar Rapids

- Accounting, four years

840 Drake University - Des Moines

- Accounting, four years

855 Grandview College - Des Moines

- Accounting, four years

991 Iowa State University - Ames

- Accounting - Business Administration, four years

865 Iowa Wesleyan College - Mt. Pleasant

- Accounting, four years

870 Loras College - Dubuque

- Accounting & Business, four years

875 Luther College - Decorah

- Accounting, four years

885 Marycrest College - Davenport

- Accounting, four years

890 Morningside College - Sioux City

- Accounting, four years

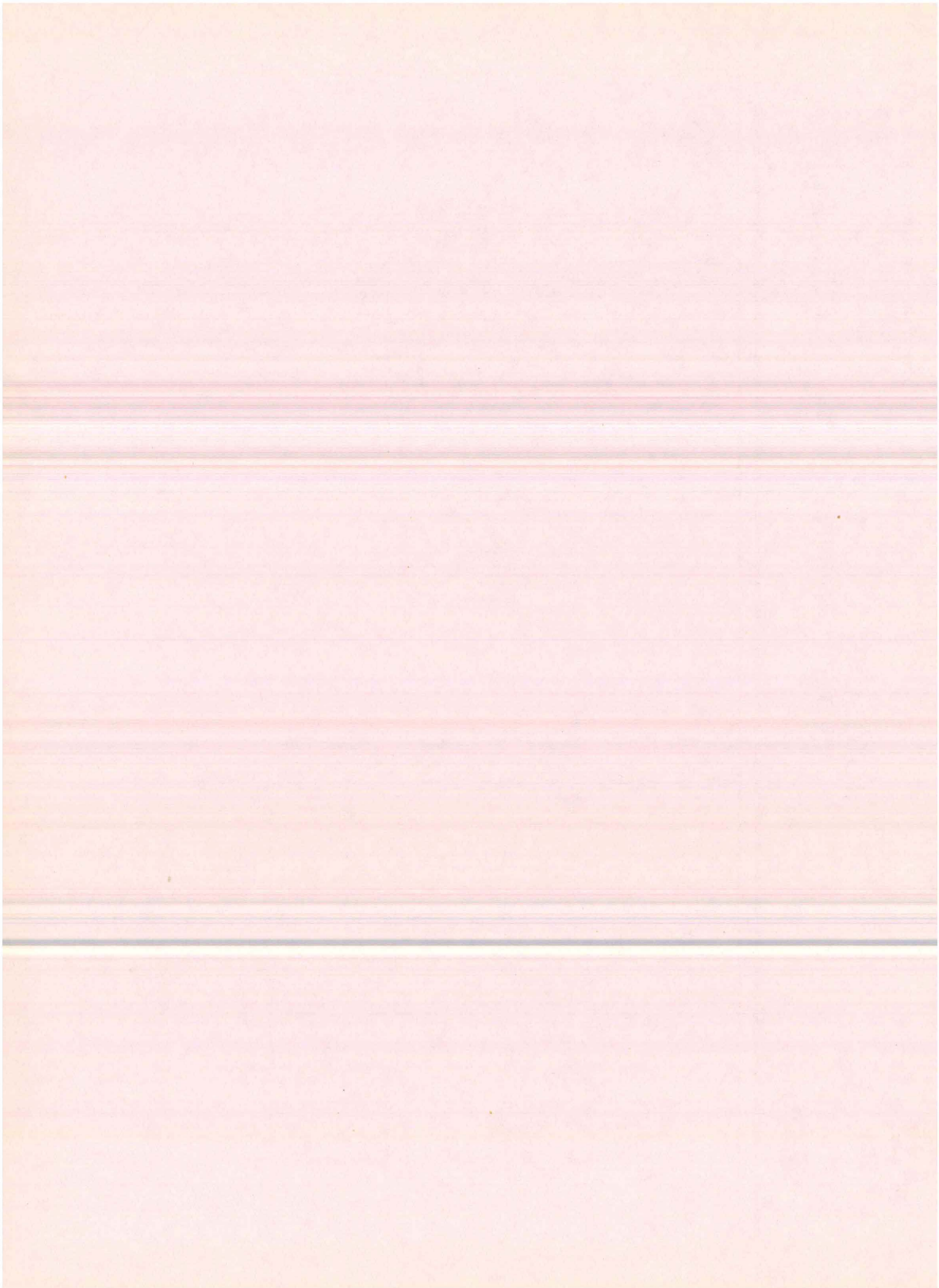


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PROGRAMS OF STUDY AND TRAINING

- 900 Mount St. Clare College** - Clinton
Accounting, four years
- 905 Northwestern College** - Orange City:
Industrial Accounting, four years
Accounting, four years
- 915 St. Ambrose College** - Davenport
Accounting, four years
- 920 Simpson College** - Indianola
Accounting, four years
- 925 University of Dubuque** - Dubuque
Accounting, four years
- 993 University of Iowa** - Iowa City
Accounting, four years
- 995 University of Northern Iowa** - Cedar Falls
Accounting, four years
- 945 Waldorf College** - Forest City
Accountancy, two years
- 950 Wartburg College of Liberal Arts & Sciences** - Waverly
Accounting, four years
- 960 Westmar College** - Le Mars
Accounting, four years
- 965 William Penn College** - Oskaloosa
Accounting, four years





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BANKING AND FINANCE

CISI NO. 1803

GROUP: 1800's - BUSINESS AND MANAGEMENT

- Banking and Finance Programs include the study of the financial management of industrial and commercial businesses, savings and mortgage banking. Investment analysis and portfolio selection are also included. Some programs emphasize agricultural related finances. The program length varies from four quarters to four years
- Course work for Banking and Finance Programs may include:

Financial Management	Investments
Insurance	Real Estate
Banking	Security Analysis
Accounting	Banking Law
Personnel Management	Consumer Credit
Agricultural Finance	Business Math
Mortgage Home Lending	
- Options for emphasis may include personal financial planning, bank management, corporate finance and investments. Internships and cooperative work experience are available in some programs.
- Courses which would be helpful in preparing for Banking and Finance Programs include mathematics, bookkeeping and general business courses.

- CISI occupations commonly entered by graduates include:

1617 Accounting Technician
1634 Appraiser
1616 Bookkeeper
1632 Claim Adjuster
1652 Collector
1638 Credit Manager
7416 Insurance Sales Agent
1636 Loan Officer
1138 Public Administrator/Official
7417 Real Estate Sales Agent
7415 Securities/Commodities Sales Agent
1644 Teller

- Related military occupations include:

16160 Accounting Specialists
11001 Management Analysts
11381 Postal Directors

- Nine Iowa schools have reported programs in Banking and Finance.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

SPECIALIZED SCHOOLS

210 American Institute of Business - Des Moines

Business administration and Financial Management,
eight quarters

AREA SCHOOLS

705 Des Moines Area Community College - Ankeny:

Financial Services, five terms

710 Eastern Iowa Area Comm. College - Bettendorf

Banking and Finance, two years

760 Northwest Iowa Technical College - Sheldon:

Financial Services Marketing, 72 weeks

COLLEGES AND UNIVERSITIES

805 Buena Vista College - Storm Lake

Banking and Finance, four years

840 Drake University - Des Moines

Finance, four years

991 Iowa State University - Ames

Finance - Business Administration, four years

905 Northwestern College - Orange City

Financial Management, four years

993 University of Iowa - Iowa City

Finance, four years



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BUSINESS ADMINISTRATION AND MANAGEMENT

CISI NO. 1804

GROUP: 1800's - BUSINESS AND MANAGEMENT

- Business Administration and Management programs include a basic understanding of planning, organizing and controlling a business. The program considers both the organizational and human aspects of the business. Emphasis is placed on the theories of management, the knowledge and understanding necessary for managing people, and the decision-making process. The program length varies from 12 months to four years.

- Course work for Business Administration and Management Programs may include:

Introduction to Business
Business Machines
Payroll Accounting
Data Processing
Business Finance
Business Law
Mathematics
Accounting

Typing
Marketing
Retailing
Income Tax
English
Economics
Management

- Some programs cover many business areas including liberal arts courses. Options for emphasis include accounting, management principles, marketing, office administration, business education and computer programming. Internships and work experiences are available in many programs.

- Courses which would be helpful in preparing for Business Administration and Management Programs include math, bookkeeping, business law, typing, economics, office machines and general business courses.

- CISI occupations commonly entered by graduates include:

1638 Credit Manager
4161 Farm Manager
7416 Insurance Sales Agent
1411 Office Manager
1186 Personnel Administrator
1138 Public Administrator/Official
1195 Public Relations Specialist
7417 Real Estate Sales Agent
1149 Retail Store Manager
1162 Sales Manager
1188 Union Organizer/Official

- Related military occupations include:

11864 Equal Opportunity Program Managers
11001 Management Analysts
11860 Personnel Managers
11861 Personnel Specialists
11381 Postal Directors
11950 Public Information Officers
11862 Recruiting Specialists
11863 Recruiting Managers
11490 Store Managers

- Thirty Iowa schools have reported programs in Business Administration and Management.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

SPECIALIZED SCHOOLS

- 210 American Institute of Business** - Des Moines:
Business Administration & Office Management, 6 qtrs
Computer Programming & Business Admin, 8 qtrs
- 220 American Institute of Commerce** - Bettendorf
Business Administration - Accounting, seven quarters
Business Administration - Management, seven quarters
- 240 Hamilton Business College** - Cedar Rapids:
Business Administration, 12 months
- 250 Hamilton Business College** - Mason City
Business Administration and Management, 15 months

AREA SCHOOLS

- 705 Des Moines Area Community College** - Ankeny:
Business Administration, two years
- 735 Iowa Valley Community College** - Davenport
Business/Small Business Management, two semesters
- 740 Iowa Western Comm. Coll.** - Council Bluffs
Business Mid-management, two years
- 770 Southwest Iowa Community College** - Sheldon:
Business Administration (Career Option), two years

COLLEGES AND UNIVERSITIES

- 800 Briar Cliff College** - Sioux City
Business Administration, four years
- 810 Central College** - Pella
Business Management, four years

- 815 Clarke College** - Dubuque: Business Admin, four years
- 840 Drake University** - Des Moines:
Management, four years
- 850 Graceland College** - Lamoni
Business Administration, four years
- 855 Grandview College** - Des Moines
Business Administration, four years
- 991 Iowa State University** - Ames
Business, four years
- 865 Iowa Wesleyan College** - Mount Pleasant
Business Administration, four years
- 875 Luther College** - Decorah
Business Administration (management), four years
- 880 Maharishi International Univ.** - Fairfield:
Business Administration
- 885 Marycrest College** - Davenport
Business Administration, four years
Management, four years
- 890 Morningside College** - Sioux City
Business Administration, four years
- 895 Mount Mercy College** - Clinton
Business Administration Accounting, four years
- 900 Mount St. Clare College** - Clinton
Business Administration, four years
- 905 Northwestern College** - Orange City
Business Administration four years
- 920 Simpson College** - Indianola
Management, four years
- 925 University of Dubuque** - Dubuque
Business Administration, four years
- 993 University of Iowa** - Iowa City
Business Administration four years
- 995 University of Northern Iowa** - Cedar Falls
Management, four years
- 950 Wartburg College of Liberal Arts & Sciences** - Waverly:
Business Administration, four years
- 960 Westmar College** - Le Mars
Business Administration, four years



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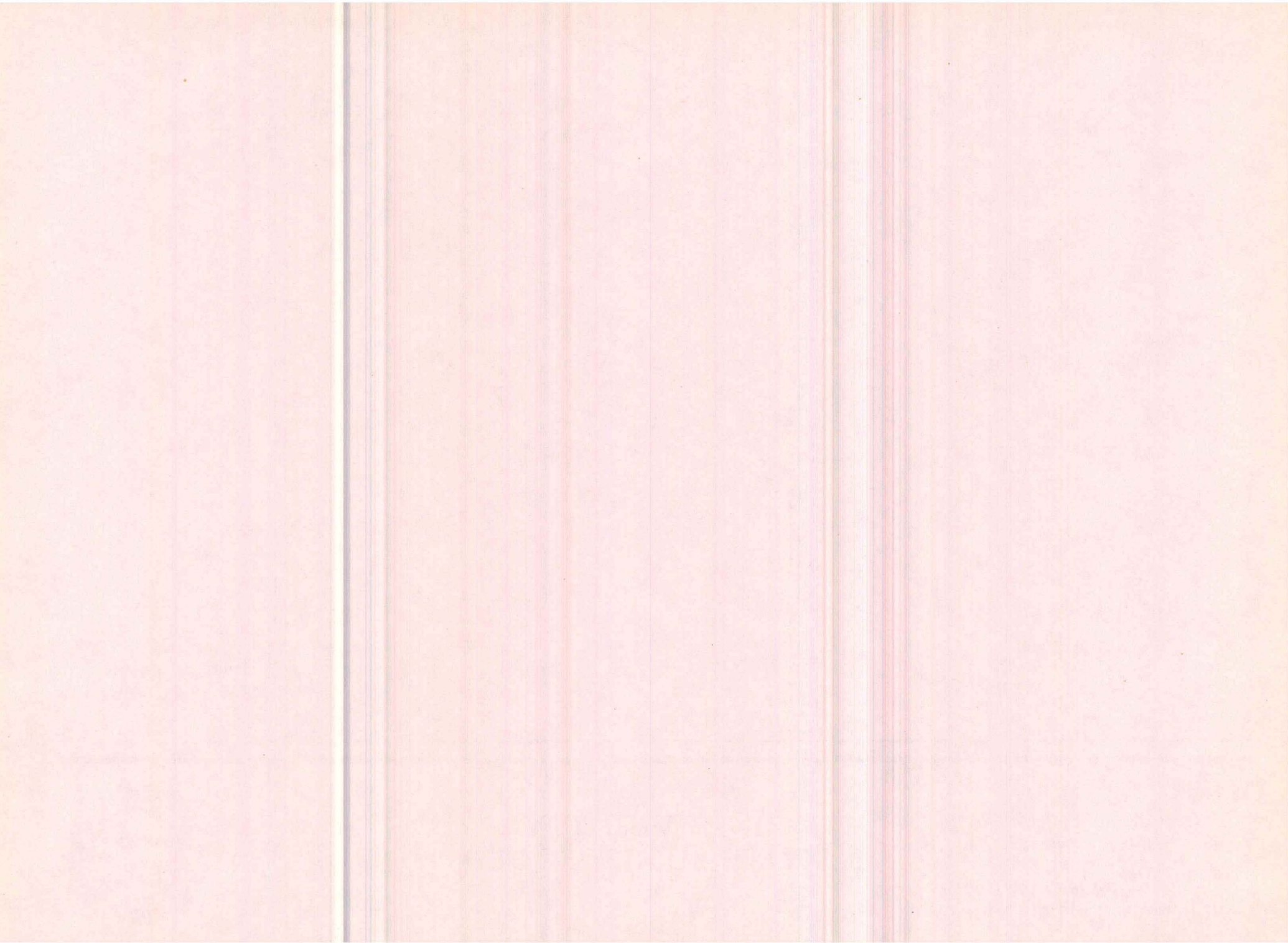
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965 William Penn College - Oskaloosa:

Business Management - Computer Programming, four yrs

Business Management, four years





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BUSINESS ECONOMICS

CISI NO. 1809

GROUP: 1800's - BUSINESS AND MANAGEMENT

- Business Economics Programs include the principles and methods of organizing a business. The program studies the combination of resources to produce goods and services, taking into account costs, prices and competition in the market place. The length of the programs is four years.

- Course work for Business Economics Programs may include:

Business Administration	Economics
Statistics	Computer Science
Accounting	Marketing
Management	Finance

- Internships, off-campus experiences and overseas study programs are available.
- Courses which would be helpful in preparing for Business Economics Programs include mathematics, business law, economics, accounting and statistics.
- CISI occupations commonly entered by graduates include:

1614 Accountant
2146 Economist
7416 Insurance Sales Agent

1636 Loan Officer
1186 Personnel Administrator
1195 Public Relations Specialist
1184 Purchasing Agent
8456 Secondary Teacher
7415 Securities/Commodities Sales Agent
8454 University/College Teacher

- Related military occupations include:

16140 Accountants and Auditors
21441 Attaches
11860 Personnel Managers
11861 Personnel Specialists
11950 Public Information Officers
11001 Management Analysts
11841 Purchasing and Contracting Managers
11842 Supply and Warehousing Managers
84560 Trainers
84540 Teachers and Instructors
11864 Equal Opportunity Program Managers
11862 Recruiting Specialists
11863 Recruiting Managers

- One Iowa school has reported a program in Business Economics.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

820 Coe College - Cedar Rapids

Business Administration and Economics, four years



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HOTEL/MOTEL MANAGEMENT

CISI NO. 1811

GROUP: 1800's - BUSINESS AND MANAGEMENT

- Hotel/Motel Management Programs include the principles and practices of providing lodging, convention facilities and services to travelers. Shorter programs stress the day to day aspects of Hotel/Motel Management. Longer programs study the planning, development and management of Hotel/Motel facilities. The program length varies from seven quarters to four years.

- Course work for Hotel/Motel Management may include:

Union/Management Relations	Food Preparation
Introduction to Business	Accounting
Front Office Procedures	Marketing
Management Principles	Advertising
Dining Room Management	Franchising
Restaurant Management	Payroll Accounting
Resort Management	Insurance
Taxes and Leases	

- Cooperative work experience and internships are available.
- Courses which would be helpful in preparing for Hotel/Motel Management Programs include English, speech, mathematics, economics, salesmanship and business law.

- CISI occupations commonly entered by graduates include:

1132 Hotel/Motel Manager
1411 Office Manager
1186 Personnel Administrator
1184 Purchasing Agent
1181 Wholesale/Retail Buyer

- Related military occupations include:

11860 Personnel Managers
11861 Personnel Specialists
11841 Purchasing and Contracting Managers
11842 Supply and Warehousing Managers
11864 Equal Opportunity Program Managers
11862 Recruiting Specialists
11863 Recruiting Managers

- Four Iowa schools have reported programs in Hotel/Motel Management.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

SPECIALIZED SCHOOLS

220 American Institute of Commerce - Davenport:

Hotel/Restaurant Management

230 American Institute of Commerce - Cedar Falls:

Hotel/Restaurant, four quarters

AREA SCHOOLS

730 Iowa Lakes Community College - Emmetsburg:

Hotel and Restaurant Management, seven quarters

COLLEGES AND UNIVERSITIES

991 Iowa State University - Ames

Hotel, Restaurant & Food Management, four years
(also graduate programs)



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TRANSPORTATION MANAGEMENT

CISI NO. 1815

GROUP: 1800's - BUSINESS AND MANAGEMENT

- Transportation Management Programs include the study of the management principles and procedures used to move goods from place to place. The forms of transportation may be rail, truck or bus. The program length varies from six quarters to four years. Graduates of the shorter programs may transfer to complete the Bachelor's degree.
- Course work for Transportation Management Programs may include:

Nat. Transportation Policy	Business Management
Transportation Regulations	Business Mathematics
Highway Transportation	Accounting
Transportation Principles	Economics
Water Transportation	Statistics
Air Transportation	Business Law

- Electives may emphasize a certain branch of transportation such as air, water or highway. Internships are available in longer programs.
- Courses which would be helpful in preparing for Transportation Management Programs include mathematics, English, geography and bookkeeping.
- CISI occupations commonly entered by graduates include:

1138 Public Administrator/Official

1426 Vehicle Dispatcher

- Related military occupations include:

11381 Postal Directors
61322 Flight Operations Specialists
11001 Management Analysts
14260 Radio Dispatchers
61321 Radio Operators

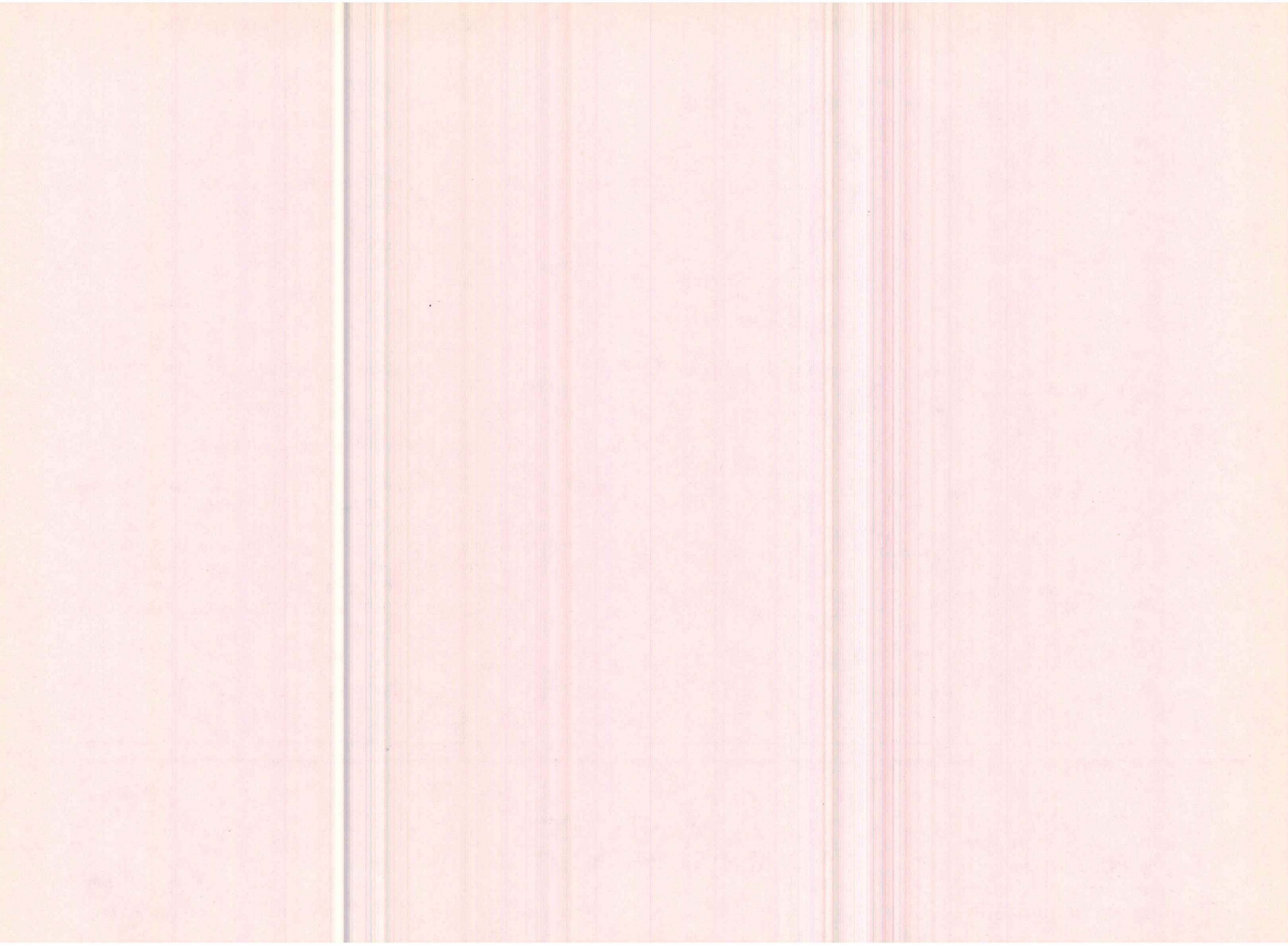
- Three Iowa schools have reported programs in Transportation Management.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

740 Iowa Western Community Coll. - Council Bluffs
Transportation and Transportation Management, six quarters
Transportation/Logistics

COLLEGES AND UNIVERSITIES

991 Iowa State University - Ames
Transportation and Logistics, four years
760 Northwest Iowa Technical College - Sheldon
Transportation Management, six quarters





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INSURANCE AND RISK MANAGEMENT

CISI NO. 1817

GROUP: 1800's - BUSINESS AND MANAGEMENT

- Insurance and Risk Management Programs include the study of risk analysis, and personal and business insurance. The principles are applied to underwriting life, disability, property, liability, fiduciary trust and annuity policies. Management of Insurance offices is included. The program is 72 weeks or four years in length.
- Course work for Insurance and Risk Management Programs may include:

Accounting
Marketing
Personal Finance
Advertising
Salesmanship

Business Management
Business Law
Investments
Economics
Insurance Practices

- Courses which would be helpful in preparing for Transportation Management Programs include mathematics, English, social science and bookkeeping.
- CISI occupations commonly entered by graduates include:

1632 Claim Adjuster
7416 Insurance Sales Agent
1635 Insurance Underwriter

- Two Iowa schools have reported programs in Insurance and Risk Management.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

760 Northwest Iowa Technical College - Sheldon
Insurance Services Management, 72 weeks

COLLEGES AND UNIVERSITIES

840 Drake University - Des Moines
Insurance, four years



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INTERNATIONAL BUSINESS MANAGEMENT

CISI NO. 1818

GROUP: 1800's - BUSINESS AND MANAGEMENT

- International Business Management Programs include the principles and processes of concerns in the international business environment. Export sales, trade controls, foreign operations and monetary problems are among the areas covered. These areas are viewed from their affect on a company's policies, procedures and products. Options are available in cross-cultural forces or foreign language. The program length is four years.
- Course work for International Business Management Programs may include:

Economics
Accounting
Marketing
Statistics

Computing
Politics
Foreign Language

- Courses which would be helpful in preparing for International Business Management Programs are normally covered in college preparatory programs.
- CISI occupations commonly entered by graduates include:

1196 Advertising Account Executive
4164 Farmer
1184 Purchasing Agent

1149 Retail Store Manager
1644 Teller

- Related military occupations include:

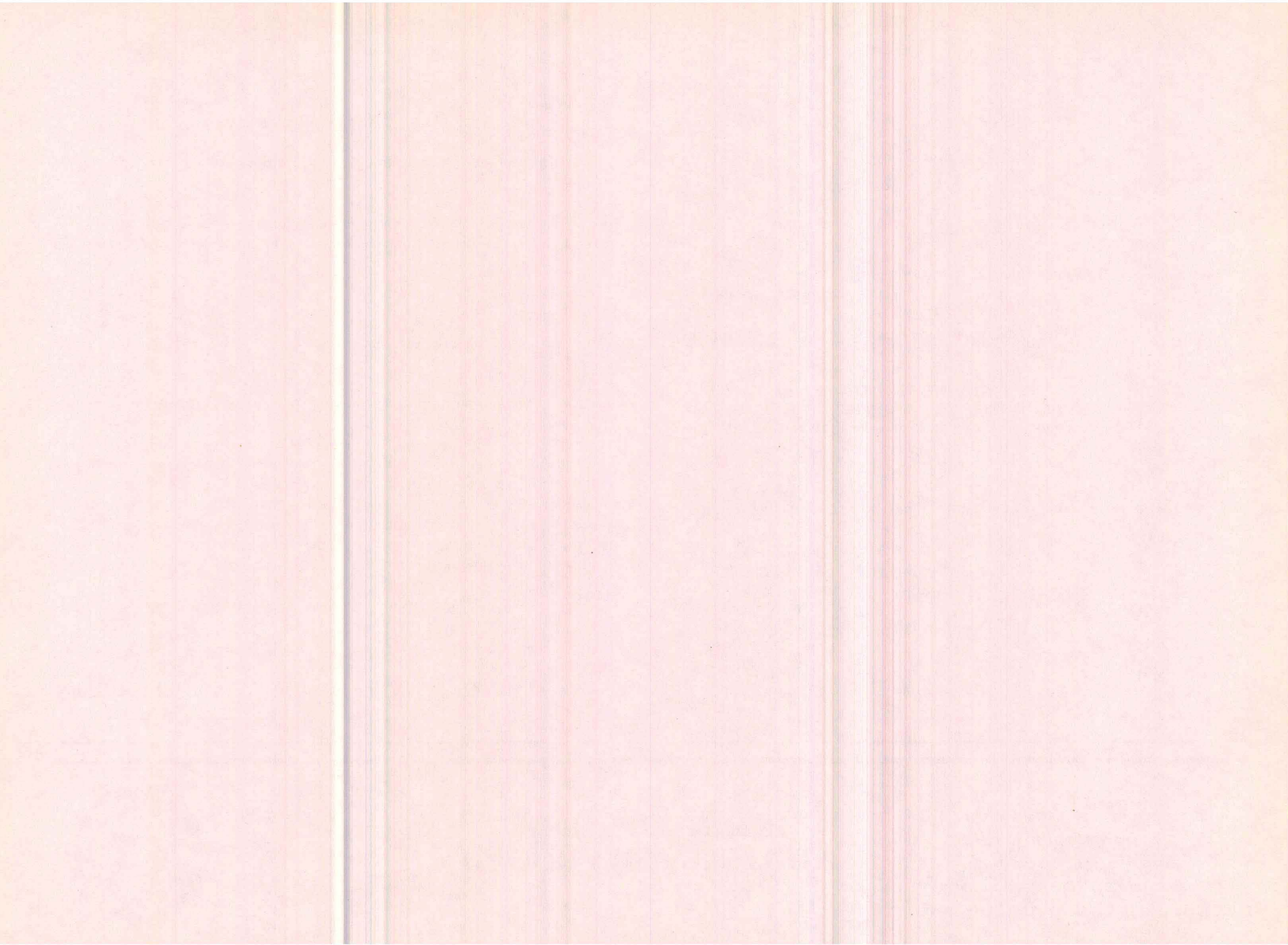
11841 Purchasing and Contracting Managers
11842 Supply and Warehousing Managers
11490 Store Managers

- One Iowa school has reported a program in International Business Management.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

810 Central College - Pella

International Business Management, four years





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LABOR/INDUSTRIAL RELATIONS

CISI NO. 1820

GROUP: 1800's - BUSINESS AND MANAGEMENT

- Labor/Industrial Relations Programs include the study of the history and development of the labor movement. Included are interpretation of legislation, union contracts, labor negotiation, conciliation, arbitration and grievance procedures. Attention is also given to developing good interpersonal relations within an industry. The program length varies from two to four years.

- Course work for the Labor/Industrial Relations Programs may include:

Legislation
Labor Relations
Collective Bargaining

Union Administration
Grievance Handling
Economics of Labor

- Courses which would be helpful in preparing for Labor/ Industrial Relations Programs include accounting, business law, psychology, economics, speech and government.
- CISI occupations commonly entered by graduates include:

1188 Union/Organization Official
- Two Iowa schools have reported programs in Labor/Industrial Relations.

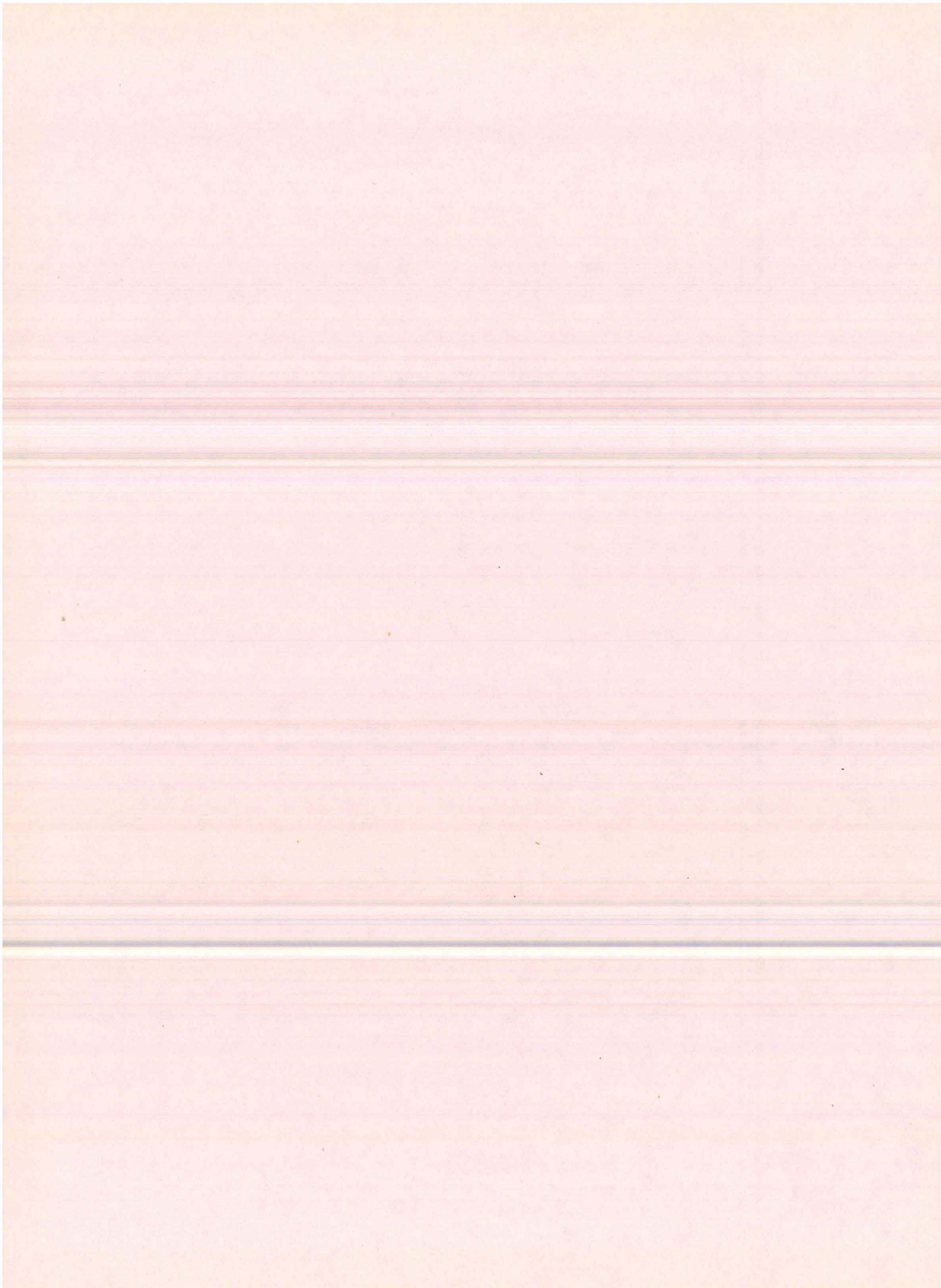
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

705 Des Moines Area Community College - Ankeny:
Labor Studies, two years

COLLEGES AND UNIVERSITIES

993 University of Iowa - Iowa City
Industrial Relations & Human Resources,
four years and up





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MANAGEMENT INFORMATION SYSTEMS

CISI NO. 1821

GROUP: 1800's - BUSINESS AND MANAGEMENT

- Management Information Systems Programs include the methods of working with managers and data processing people. The goal is to use the available information efficiently. The program length is six quarters or four years.
- Course work for the Management Information Systems Programs may include:

Man. Information Systems
Organizational Behavior
Computer Programming

Computer Science
Accounting

- Options for emphasis are available in computer science or management theory. Off and on campus work experiences are available.
- Courses which would be helpful in preparing for Management Information Systems Programs include mathematics, computer science, psychology, economics and a general college preparatory background.
- CISI occupations commonly entered by graduates include:

1686 Computer/Peripheral Equipment Operator
1684 Computer Programmer
1411 Office Manager
1195 Public Relations Specialist

1683 Systems Analyst

- Related military occupations include:

16860 Computer Operators
56009 Space Systems Specialists
16840 Computer Programmers
11950 Public Information Officers
16832 Computer Systems Development Officers
16831 Data Processing Managers
16830 Computer Systems Analysts

- Seven Iowa schools have reported programs in Management Information Systems.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

SPECIALIZED SCHOOLS

220 American Institute of Commerce - Bettendorf
Management Information Systems, six quarters

COLLEGES AND UNIVERSITIES

805 Buena Vista College - Storm Lake

Management Information Systems, four years

Management Sciences, four years

810 Central College - Pella

Systems Management, four years

835 Dordt College - Sioux City

Management Information Systems, four years

875 Luther College - Decorah

Management Information Systems, four years

915 St. Ambrose College - Davenport

Management Science and Statistics, four years

995 University of Northern Iowa - Cedar Falls

Office Information Systems, four years



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MARKETING MANAGEMENT

CISI NO. 1825

GROUP: 1800's - BUSINESS AND MANAGEMENT

- Marketing Management Programs include marketing and management skills application for any industry. These skills are used by mid-management in training programs or in marketing. Program length is two to four years.
- Course work for Marketing Management Programs may include:

Communication Skills	Sales Management
Consumer Motivation	Salesmanship
Quantitative Methods	Business
Market Management	Distribution
Consumer Behavior	Economics
Market Analysis	Advertising
Marketing Channels	Purchasing
Sales Forecasting	Promotion
Behavioral Science	
- Options for emphasis in marketing are available. Off campus internships are available in some programs.
- Courses which would be helpful in preparing for a Marketing Management Program include mathematics, business, English, and speech.

- CISI occupations commonly entered by graduates include:

1196 Advertising Account Executive
1638 Credit Manager
7429 Industrial Products Salesperson
7414 Manufacturer's Representative
1195 Public Relations Specialist
1184 Purchasing Agent
1149 Retail Store Manager
1162 Sales Manager
1181 Wholesale/Retail Buyer

- Related military occupations include:

11950 Public Information Officers
11841 Purchasing and Contracting Managers
11842 Supply and Warehousing Managers
11490 Store Managers

- Thirteen Iowa schools have reported programs in Marketing Management.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

SPECIALIZED SCHOOLS

210 American Institute of Business - Des Moines
Business Admin, Sales and Marketing, eight quarters

AREA SCHOOLS

- 705 Des Moines Area Community College** - Ankeny:
Industrial Management and Marketing, five terms
- 740 Iowa Western Community College** - Council Bluffs:
Marketing Management
Retail Management, six quarters
Retail Sales, two quarters
- 745 Kirkwood Community College** - Cedar Rapids:
Marketing Management
- 755 Northeast Iowa Technical Institute** -
Calmar: Office Specialist-Clerical, three quarters
- 760 Northwest Iowa Technical College** - Sheldon:
Merchandising Management, 72 weeks
- 770 Southwestern Community College** - Creston:
Sales/Marketing Management, two years

COLLEGES AND UNIVERSITIES

- 840 Drake University** - Des Moines
Marketing, four years
- 991 Iowa State University** - Ames
Management - Business Admin, four years
- 905 Northwestern College** - Orange City
Marketing, four years
- 925 University of Dubuque** - Dubuque
Marketing, four years
- 993 University of Iowa** - Iowa City
Management Science, four years
Marketing, four years
- 995 University of Northern Iowa** - Cedar Falls:
Marketing, four years
Chemistry - Marketing, four years



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REAL ESTATE

CISI NO. 1830

GROUP: 1800's - BUSINESS AND MANAGEMENT

- Real Estate Programs include the study of the theories and techniques of buying and selling real estate property. Also included is appraising, renting, managing and leasing property. The programs employment goal includes both sales and office management. The state of Iowa requires a license to sell real estate. The program length is six quarters.

- Course work for Real Estate Programs may include:

Real Estate Finance	Business
Real Estate Appraisal	Accounting
Money and Banking	Insurance
Real Estate Practices	Selling
Office Procedures	Economics
Business Laws	Mathematics

- Work experience in a real estate office is available.
- Courses which would be helpful in preparing for Real Estate Programs include business, mathematics, accounting, speech and psychology.
- CISI occupations commonly entered by graduates include:

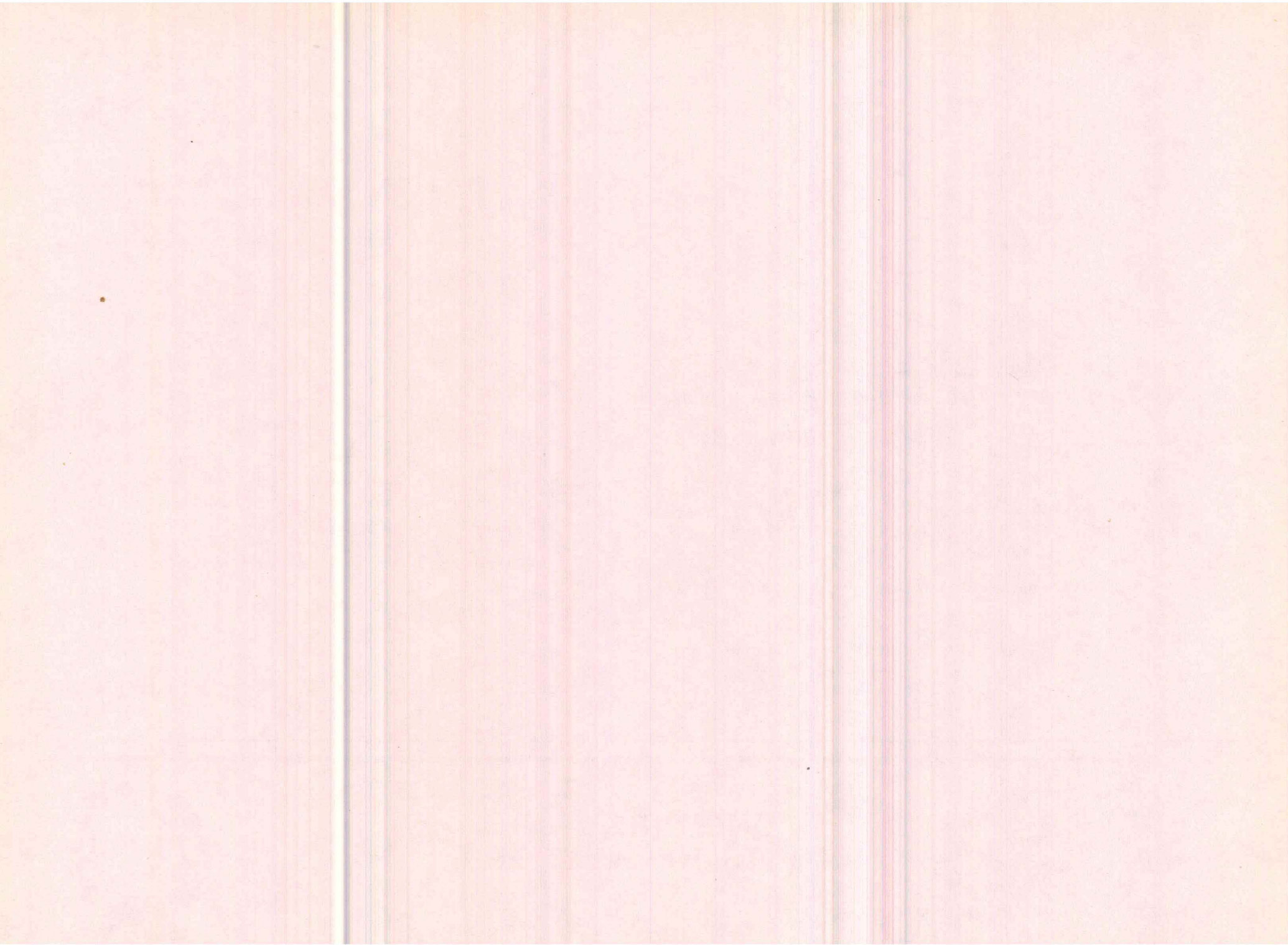
1634 Appraiser

1636 Loan Officer
1411 Office Manager
7417 Real Estate Sales Agent
1162 Sales Manager

- One Iowa school has reported a program in Real Estate.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

740 Iowa Western Community Coll. - Council Bluffs
Real Estate Sales and Management, six quarters





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SMALL BUSINESS MANAGEMENT

CISI NO. 1838

GROUP: 1800's - BUSINESS AND MANAGEMENT

- Small Business Management Programs include the study of management roles, policies and procedures relating to a small business. The program length varies from two to four years.
- Course work for Small Business Management Programs may include:

Advertising & Promotion
Introduction to Business
Communication Skills
Inventory Management
Personnel Management

Business Management
Business Law
Accounting
Data Processing

- Courses which would be helpful in preparing for Small Business Management Programs include communication skills, mathematics and business administration courses.
- CISI occupations commonly entered by graduates include:

No CISI occupations were reported.
- Three Iowa schools have reported programs in Small Business Management.

- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

705 Des Moines Area Community College - Ankeny:

Small Business Enterprise, two years

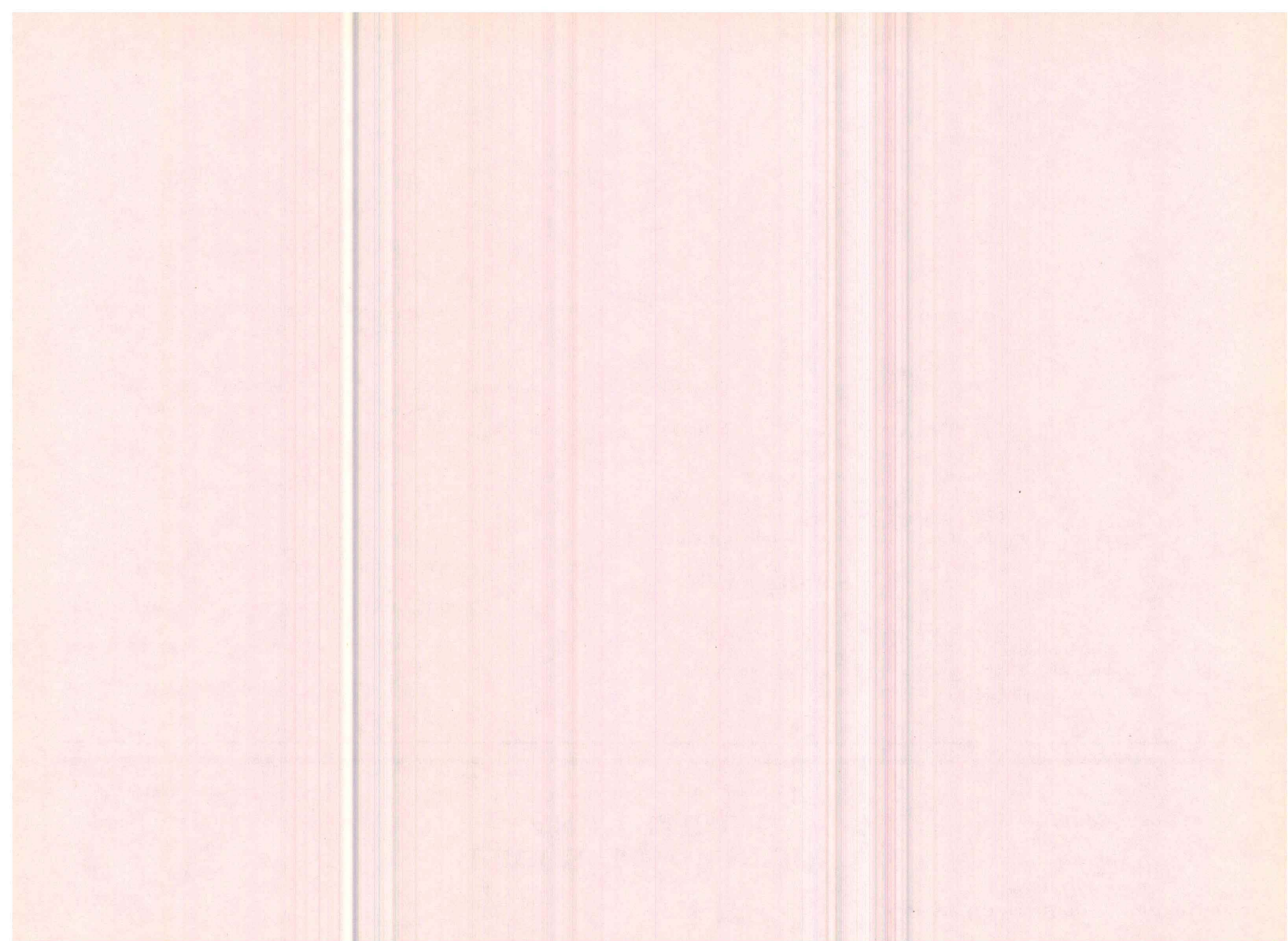
730 Iowa Lakes Community College - Estherville:

Small Business Management, two years

COLLEGES AND UNIVERSITIES

805 Buena Vista College - Storm Lake

Small Business, four years





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TRADE AND INDUSTRIAL SUPERVISION AND

MANAGEMENT

CISI NO. 1842

- GROUP: 1800's - BUSINESS AND MANAGEMENT
- Trade and Industrial Supervision and Management Programs include the study of supervising and managing people. The business may be construction, mechanical repair, precision production, transportation or material moving. Some programs offer an emphasis in safety aspects of management. The program length is four years.
- Course work for Trade and Industrial Supervision and Management Programs may include:

Business Management	Marketing
Business Policy	Accounting
Transportation	Finance
Business Law	
- Course work may include liberal arts courses along with administration and management courses. Options for emphasis may be finance or marketing. Internships and off-campus work experiences are available.
- Courses which would be helpful in preparing for Trade and Industrial Supervision and Management Programs include mathematics, physics, chemistry and industrial arts.

- CISI occupations commonly entered by graduates include:

7429 Industrial Products Salesperson
7414 Manufacturer's Representative
1186 Personnel Administrator
1154 Production Supervisor
2425 Safety Engineer
1162 Sales Manager

- Related military occupations include:

11864 Equal Opportunity Program Managers
11862 Recruiting Specialists
11001 Management Analysts
11860 Personnel Managers
11861 Personnel Specialists
11863 Recruiting Managers

- Three Iowa schools have reported programs in Trade and Industrial Supervision and Management.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

991 Iowa State University - Ames

Occupational Safety, four years

995 University of Northern Iowa - Cedar Falls

Industry, four years

960 Westmar College - Le Mars

Industrial Management, four years



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BOOKKEEPING

CISI NO. 1903

GROUP: 1900's - BUSINESS AND OFFICE

- Bookkeeping Programs include the study of how to compute, classify and record numerical data. The financial data is used to keep records, ledgers and prepare tax reports and monthly statements. The program length varies from three quarters to two years.

- Course work for Bookkeeping Programs may include:

Accounting Principles
Introduction to Business
Business Mathematics
Business Communication
Office Procedures
Business Machines
Cost Accounting

Data Processing
Typewriting
Business Law
Income Tax
English
Payroll

- Course work is both in the classroom and lab setting. Off-campus work experiences is available.
- Courses which would be helpful in preparing for Bookkeeping Programs include business mathematics, office machines, bookkeeping, typing and English.
- CISI occupations commonly entered by graduates include:

1617 Accounting Technician

1621 Billing Clerk
1616 Bookkeeper
1418 General Office Clerk
1628 Payroll/Timekeeping Clerk
1622 Statistical Clerk

- Related military occupations include:

16160 Accounting Specialists
14180 Administrative Support Specialists
16280 Payroll Specialists
16220 Maintenance Data Specialists

- Twelve Iowa schools have reported programs in Bookkeeping.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

SPECIALIZED SCHOOLS

250 Hamilton Business College - Mason City:
Bookkeeping, twelve months

AREA SCHOOLS

705 Des Moines Area Community College - Ankeny:

Bookkeeping/Accounting, three terms

715 Hawkeye Institute of Technology - Waterloo:

Junior Accounting, four quarters

720 Indian Hills Community College - Ottumwa:

Bookkeeper, six months

730 Iowa Lakes Community College - Emmetsburg:

Accounting Specialist, two years

735 Iowa Valley Community College - Ellsworth

Accounting Systems Tech, two semesters

745 Kirkwood Community College - Cedar Rapids:

Accounting, one year

750 North Iowa Area Community College - Mason City

Accounting Clerk (nine months), two semesters

755 Northeast Iowa Technical Institute - Peosta

Bookkeeping/Accounting, three quarters

760 Northwest Iowa Technical College - Sheldon:

Office Accounting, three quarters

765 Southeastern Community Coll. - West Burlington

Accounting, two semesters plus one summer term
(Diploma) or two years (AAS)

775 Western Iowa Technical Comm. Coll. - Sioux City:

Accounting, four quarters

Clerical Bookkeeping, three quarters



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TELLER

CISI NO. 1908

GROUP: 1900's - BUSINESS AND OFFICE

- Teller Programs intend to prepare individuals to receive and pay out money. Also they learn to keep appropriate records of the transactions. Computing finance and service charges and operating machines and computers used in financial institutions is also covered. The program is four weeks in length.

- Course work for The Teller Program includes:

Banking System	Check Cashing Procedures
Robbery and Security	Banking Laws
Customer Service	

- Courses which would be helpful in preparing for Bookkeeping Programs include experiences involving public contact.
- CISI occupations commonly entered by graduates include:
1644 Teller
- Related military occupations include:
16280 Payroll Specialists
- One Iowa school has reported a Teller program.

- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

SPECIALIZED SCHOOLS

695 Teller Training Institute - Des Moines
Teller, four weeks (six weeks/evening program)



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BUSINESS COMPUTER AND CONSOLE OPERATION

CISI NO. 1914

GROUP: 1900's - BUSINESS AND OFFICE

- Business Computer and Console Operation Programs include the study of the operation of computers. The programs include procedures for readying equipment for operation and managing the equipment during operation. The length of the program varies from seven weeks to one year.
- Course work for Business Data Entry Equipment Operation Programs may include:

Data Processing Concepts
Filing & Records Control
Secretarial Accounting
Office Procedures
Mathematics
Intro to Computer Systems

Office Machines
Keypunch
Typing
Computer Operations
Communication Skills

- Courses which would be helpful in preparing for Business Data Entry Equipment Operation Programs include typing, bookkeeping, English, mathematics, office machines and business law.
- CISI occupations commonly entered by graduates include:

1616 Bookkeeper
1686 Computer/Peripheral Equipment Operator

- Related military occupations include:

16280 Computer Operators

- Sixteen Iowa schools have reported programs in Business Computer and Console Operation.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

SPECIALIZED SCHOOLS

- 220 American Institute of Commerce** - Bettendorf:
Information Processing, four quarters
- 230 American Institute of Commerce** - Cedar Falls:
Information Processing, four quarters
- 240 Hamilton Business College** - Cedar Rapids
Data Entry, clerical, nine months
Data Entry Specialist, twelve months
- 250 Hamilton Business College** - Mason City
Data Entry Specialist, twelve months

AREA SCHOOLS

- 705 Des Moines Area Community College** - Ankeny:
Information/Word Processing
- 710 Eastern Iowa Community College** - Bettendorf:
Computer Operations, one semester

- 715 Hawkeye Institute of Technology** - Waterloo:
Data Entry Operator, 12 weeks
- 725 Iowa Central Community College** - Fort Dodge:
Microcomputer Software Specialist, two semesters
Information Processing Specialist
- 730 Iowa Lakes Community College** - Estherville:
Data Processing Specialist, two years
Information Processing Specialist, Seven quarters
- 735 Iowa Valley Community College**- Iowa Falls:
Business Data Processing, two years
Mini Computer Operations and Electronic
- 740 Iowa Western Community College** - Council Bluffs:
Information Systems Operator, one quarter
- 745 Kirkwood Community College** - Cedar Rapids:
Computer Operations, three quarters
Information Processing, three terms
- 755 Northeast Iowa Technical College** - Calmar:
Information Processing Technician, three quarters
- 760 Northwest Iowa Technical College** - Sheldon:
Microcomputer Operation Management
- 770 Southwestern Community College** - Creston:
Microcomputer Operator, one year
- 775 Western Iowa Technical Comm. Coll.** - Sioux City:
Data Processing, four quarters
Micro Processor Specialist, four quarters



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OFFICE SUPERVISION AND MANAGEMENT

CISI NO. 1920

GROUP: 1900's - BUSINESS AND OFFICE

- Office Supervision and Management Programs include study of the supervision and coordination of employees and office activities. The program includes organizing and revising office operations and procedures dealing with correspondence, records and other materials. The process of evaluating employees and office efficiency is also included. Shorter programs stress management skills. Longer programs include general business and liberal arts courses. The program length varies from four quarters to four years.

- Course work for Office Supervision and Management Programs may include:

Business Mathematics
Office Management
Office Procedures
Data Processing
Word Processing

Business Law
Accounting
Economics
Shorthand
Typing

- Options for specialization in the longer programs include management areas such as accounting, marketing and secretarial. Internships and off-campus work experience may be available.
- Courses which would be helpful in preparing for Office Supervision and Management Programs include typing, shorthand, English, mathematics and general business programs.

- CISI occupations commonly entered by graduates include:

1444 Legal Secretary
1446 Medical Secretary
1411 Office Manager
1186 Personnel Administrator
1162 Sales Manager
1142 Secretary
1462 Word Processing Operator

- Related military occupations include:

14420 Secretaries and Stenographers
11864 Equal Opportunity Program Managers
11862 Recruiting Specialists
11863 Recruiting Managers
11001 Management Analysts
11860 Personnel Managers
11861 Personnel Specialists

- Fifteen Iowa schools have reported programs in Office Supervision and Management.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

SPECIALIZED SCHOOLS

220 American Institute of Commerce - Bettendorf:

Administrative Assistant, six quarters
Medical Administrative Assistant, four quarters
plus six weeks
Medical Office Specialist, four quarters

230 American Institute of Commerce - Cedar Falls:

Medical Office Specialist, four quarters

240 Hamilton Business College - Cedar Rapids:

Administrative Legal, 15 months
Administrative Medical, 15 months
Administrative Secretarial, 15 months

250 Hamilton Business College - Mason City:

Legal Office Administration, 15 months
Medical Office Administration, 15 months
Executive Office Administration, 15 or 18 months

260 Spencer School of Business - Spencer

Medical Administrative Assistant, 8 1/2 months

AREA SCHOOLS

705 Des Moines Area Community College - Ankeny:

Administrative Secretary, two years
Office Management, two years

710 Eastern Iowa Community College - Muscatine:

Administrative Assistant, two years

720 Indian Hills Community College - Ottumwa:

Administrative Secretarial, nine months

725 Iowa Central Community College - Fort Dodge:

Administrative Secretary, 36 weeks

730 Iowa Lakes Community College - Emmetsburg:

Administrative Assistant

740 Iowa Western Community College - Council Bluffs

Administrative Assistant, four semesters
Medical Administrative Assistant

755 Northeast Iowa Technical College - Peosta:

Administrative Assistant, six quarters
Administrative Assistant Clerical/Secretarial

760 Northwest Iowa Technical College - Sheldon:

Administrative Secretary, two quarters

COLLEGES AND UNIVERSITIES

890 Morningside College - Sioux City

Office Administration, four years

905 Northwestern College - Orange City

Office Management four years

945 Waldorf college - Forest City

Office Administration, two years



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COURT REPORTING

CISI NO. 1926

GROUP: 1900's - BUSINESS AND OFFICE

- Court Reporting Programs include the study of the process of making accurate transcripts of courtroom proceedings. The program length is eight quarters.
- Course work for Court Reporting Programs may include:

Medical Transcription	Court Reporting
Legal Transcription	Communications
Medical Terminology	Speed Building
Legal Accounting	Human Anatomy
Business Management	Typing
Legal Terminology	
- Courses which would be helpful in preparing for Court Reporting Programs include typing, business law, bookkeeping, science and speech.
- CISI occupations commonly entered by graduates include:

1415 Court Reporter
- Related military occupations include:

14150 Court Reporters

- Three Iowa schools have reported programs in Court Reporting.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

SPECIALIZED SCHOOLS

- 210 American Institute of Business** - Des Moines
Court Reporting Major, eight quarters
- 220 American Institute of Commerce** - Bettendorf
Court Reporting, eight quarters

COLLEGES AND UNIVERSITIES

- 960 Westmar College** - Le Mars: Court Reporting, four years



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EXECUTIVE SECRETARIAL

CISI NO. 1927

GROUP: 1900's - BUSINESS AND OFFICE

- Executive Secretarial Programs include the study of the methods of support to management by organizing corporate records. Additional duties may be preparing reports, planning conferences and organizing office procedures. Longer programs stress management and administrative skills. The program length varies from three quarters to two years.

- Course work for Executive Secretarial Programs may include:

Personnel Management	Mathematics
Introduction to Business	Accounting
Payroll Accounting	Psychology
Data Processing	Shorthand
Business Management	Typing
Office Procedures	Law
Communications	

- Off-campus work experiences may be available.
- Courses which would be helpful in preparing for Executive Secretarial Programs include bookkeeping, mathematics, English, speech, typing, shorthand and general business courses.

- CISI occupations commonly entered by graduates include:

1444 Legal Secretary
1446 Medical Secretary
1411 Office Manager
1186 Personnel Administrator
1542 Receptionist
1442 Secretary

- Related military occupations include:

14420 Secretaries and Stenographers
11864 Equal Opportunity Program Managers
11862 Recruiting Specialists
11863 Recruiting Managers
11001 Management Analysts
11860 Personnel Managers
11861 Personnel Specialists

- Fifteen Iowa schools have reported Executive Secretarial programs.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

SPECIALIZED SCHOOLS

210 American Institute of Business - Des Moines

Executive Secretarial- Business Admin

Executive Secretarial- Legal

Executive Secretarial- Medical

General Business, four quarters

220 American Institute of Commerce - Bettendorf

Executive Secretarial, four quarters

240 Hamilton Business College - Cedar Rapids

Executive Secretarial, twelve months

250 Hamilton Business College - Mason City

Executive Secretary

Executive Accounting Secretary

260 Spencer School of Business - Spencer

Executive Secretarial, 10 months

AREA SCHOOLS

705 Des Moines Area Community College - Ankeny:

Executive Assistant, four terms

710 Eastern Iowa Community College -

Clinton: Secretarial, two years

Muscatine: Secretarial, two years

715 Hawkeye Institute of Technology - Waterloo:

Executive Secretary

735 Iowa Valley Community College - Iowa Falls:

Executive Secretary, two years

740 Iowa Western Community College - Council Bluffs:

Office Occupations Specialist, two quarters

745 Kirkwood Community College - Cedar Rapids:

Administrative Secretarial Technology

750 North Iowa Area Community College - Mason City:

Secretary, Executive, two years

760 Northwest Iowa Technical College - Sheldon:

Administrative Secretary

775 Western Iowa Technical Comm. Coll. - Sioux City

Administrative Assistant, three quarters

COLLEGES AND UNIVERSITIES

900 Mount St. Clare College - Clinton

Executive Secretarial, two years



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LEGAL SECRETARIAL

CISI NO. 1928

GROUP: 1900's - BUSINESS AND OFFICE

- Legal Secretarial Programs include the study of the methods for handling secretarial duties in a law office. A knowledge of legal terms is learned along with office emphasis in areas such as estate planning, private and real estate law. The program length varies from four quarters to eight quarters.

- Course work for Legal Secretarial Programs may include:

Legal Office Practices
Records Management
American Government
Legal Terminology
Business Law

Income Tax
Accounting
Shorthand
English
Typing

- Internships, off-campus work experience and on-the-job training may be available.
- Courses which would be helpful in preparing for Legal Secretarial Programs include shorthand, typing, English, bookkeeping, business law and other business courses.
- CISI occupations commonly entered by graduates include:

1444 Legal Secretary
1452 Receptionist

1442 Secretary

- Related military occupations include:

14420 Secretaries and Stenographers

- Eleven Iowa schools have reported programs in Legal Secretarial.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

SPECIALIZED SCHOOLS

- 210 American Institute of Business** - Des Moines
Legal Specialist, eight quarters
- 220 American Institute of Commerce** - Bettendorf
Legal Secretarial, four quarters
- 240 Hamilton Business College** - Cedar Rapids:
Legal Clerical, 9 months
Legal Secretary, 12 months
- 250 Hamilton Business College** - Mason City:
Legal Accounting Secretary
Legal Clerical, 9 months
Legal Secretary, 12 months

AREA SCHOOLS

705 Des Moines Area Community College - Ankeny:

Legal Secretary, five terms

710 Eastern Iowa Community College District -

Muscatine: Secretarial, two years

735 Iowa Valley Community College - Iowa Falls

Legal Secretary, two years

740 Iowa Western Community Coll. - Council Bluffs

Legal Office Specialist, one year

Legal Secretarial Program

745 Kirkwood Community College - Cedar Rapids:

Legal Secretarial, four quarters

750 North Iowa Area Community College - Mason City:

Secretary - Legal, two semesters

Secretary - Legal, two years

775 Western Iowa Technical Comm. Coll. - Sioux City

Legal Secretary, four quarters



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MEDICAL SECRETARIAL

CISI NO. 1929

GROUP: 1900's - BUSINESS AND OFFICE

- Medical Secretarial Programs include the study of the methods for handling secretarial duties in a medical office. Longer programs include a variety of medical related courses such as medical laboratory practices, medical sciences, physiology and pharmacology. The program length varies from four quarters to two years.

- Course work for Medical Secretarial Programs may include:

Medical Terminology
Business Machines
Business Mathematics
Payroll Accounting
Office Procedures
Records Management
Communications

Human Relations
Human Anatomy
Transcription
Accounting
Shorthand
Typing

- Internships may be available.
- Courses which would be helpful in preparing for Medical Secretarial Programs include anatomy, physiology, biology, shorthand, typing, bookkeeping and English.
- CISI occupations commonly entered by graduates include:

1446 Medical Secretary

1452 Receptionist
1442 Secretary

- Related military occupations include:

14420 Secretaries and Stenographers

- Eleven Iowa schools have reported programs in Medical Secretarial.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

SPECIALIZED SCHOOLS

240 Hamilton Business College - Cedar Rapids:

Medical Secretary, 12 months

250 Hamilton Business College - Mason City:

Medical Accounting Secretary

Medical Secretary, 12 months

AREA SCHOOLS

705 Des Moines Area Community College - Ankeny:

Medical Secretary, three terms

710 Eastern Iowa Community College District -

Muscatine: Secretarial, two years

715 Hawkeye Institute of Technology - Waterloo:

Medical Secretary, three quarters

735 Iowa Valley Community College - Iowa Falls

Medical Secretary, two years

740 Iowa Western Community Coll. - Council Bluffs

Medical Office Specialist, four quarters

745 Kirkwood Community College - Cedar Rapids:

Medical Secretarial, four quarters

750 North Iowa Area Community College - Mason City

Secretary - Medical, nine months or two years

775 Western Iowa Technical Comm. Coll. - Sioux City

Medical Secretary, four quarters

Medical Secretary Assistant

COLLEGES AND UNIVERSITIES

900 Mount St. Clare College - Clinton

Medical Secretary, two years



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SECRETARIAL

CISI NO. 1930

GROUP: 1900's - BUSINESS AND OFFICE

- Secretarial Programs include the study of supporting the administration by doing general office duties. The programs include scheduling appointments, receptionist duties and dictation. Shorter programs stress secretarial skills such as typing and shorthand. Longer ones include more business management and administrative courses. The program length varies from three quarters to three years.

- Course work for Secretarial Programs may include:

Business Man. Principles
Business Mathematics
Communication Skills
Office Procedures
Secretarial Accounting
Payroll Accounting
Records Management
Business Machines

Secretarial Procedures
Word Processing
Business Law
Letter Writing
Speed Writing
Transcribing
Shorthand
Typing

- Many programs include options to specialize in areas such as legal secretary, medical secretary, administrative secretary and stenographer. Internships, on-the-job training and other off-campus work experiences are included in many programs.

- Courses which would be helpful in preparing for Secretarial Programs include English, bookkeeping, typing, shorthand, speech, machine transcribing, office procedures, psychology, office machines and other business courses.

- CISI occupations commonly entered by graduates include:

1418 General Office Clerk
1444 Legal Secretary
1446 Medical Secretary
1411 Office Manager
1452 Receptionist
1442 Secretary
1414 Stenographer
1462 Word Processing Operator

- Related military occupations include:

14180 Administrative Support Specialists
14420 Secretaries and Stenographers

- Eighteen Iowa schools have reported programs in Secretarial.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

SPECIALIZED SCHOOLS

- 210 American Institute of Business** - Des Moines:
General Secretarial, four quarters
- 230 American Institute of Commerce** - Cedar Falls:
Secretary, four quarters
- 240 Hamilton Business College** - Cedar Rapids:
Office Specialist, nine months
Secretarial Specialist
- 250 Hamilton Business College** - Mason City
Secretarial Specialist

AREA SCHOOLS

- 710 Eastern Iowa Community College District** -
Bettendorf: Secretarial Education, one year
Muscatine: Secretarial Program, two semesters
- 715 Hawkeye Institute of Technology** - Waterloo:
Secretary, four quarters
- 725 Iowa Central Community College** - Fort Dodge:
Correspondence Secretary, 36 weeks
- 735 Iowa Valley Community College District** -
Iowa Falls: Secretarial, one year
Marshalltown: Secretarial, one year
- 740 Iowa Western Community Coll.** - Council Bluffs
Secretarial Program, three quarters
- 745 Kirkwood Community College** - Cedar Rapids:
General Secretarial, three or four quarters
- 750 North Iowa Area Community College** - Mason City
Secretarial Program, nine months
- 755 Northeast Iowa Technical Institute** -
Calmar: Office Specialist-Secretarial, three qtrs
Peosta: Office Specialist-Secretarial, three qtrs
- 765 Southeastern Comm. Coll.** -
Keokuk: Secretarial Options, two semesters
West Burlington: Office Career Program - Clerical/
Secretarial Options, two semesters
- 770 Southwestern Community College** - Creston:
Office Occupations / Secretary
Secretarial Sciences, two years

- 775 Western Iowa Technical Comm. Coll.** - Sioux City
Secretarial, four quarters

COLLEGES AND UNIVERSITIES

- 835 Dordt College** - Sioux Center
Secretarial Sciences, two years
- 845 Faith Theological Seminary** - Ankeny
Secretarial Training, three years
- 900 Mount St. Clare College** - Clinton
Secretarial, one year



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TOURISM AND TRAVEL

CISI NO. 1933

GROUP: 1900's - BUSINESS AND OFFICE

- Tourism and Travel include general secretarial skills and specific skills or specialties. The specialty areas may be insurance, travel, church and bilingual secretaries. The program length varies from four quarters to two years.
- Course work for the Tourism and Travel may include:

Business Letter Writing	Office Machines
Communication Skills	Human Relations
Word Processing	Business Law
Records Management	Shorthand
Office Procedures	Filing
- Courses in the specialty areas are part of the programs with the basic secretarial course work. Internships and off-campus work experience may be available. Program includes numerous courses relating to its area of specialty. Internships and other off-campus work experiences are included in some of the programs.
- Courses which would be helpful in preparing for Tourism and Travel include typing, shorthand, office procedures, bookkeeping, English, machine transcription and business math.

- CISI occupations commonly entered by graduates include:

1621 Billing Clerk
1433 File Clerk
1418 General Office Clerk
1411 Office Manager
1452 Receptionist
1442 Secretary
1425 Ticket Agent
1424 Travel Agent
1417 Typist

- Related military occupations include:

14180 Administrative Support Specialists
14420 Secretaries and Stenographers
14240 Transportation Specialists

- Nine Iowa schools have reported programs in Tourism and Travel.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

SPECIALIZED SCHOOLS

605 American College of Travel & Word Processing -
Des Moines: Travel Careers, 15 weeks
220 American Institute of Commerce - Bettendorf
Airline & Travel Careers/ Accounting

230 American Institute of Commerce - Cedar Falls

Travel & Tourism, four quarters

240 Hamilton Business College - Cedar Rapids:

Travel & Tourism, 12 months

250 Hamilton Business College - Mason City

Travel & Tourism, 12 months

635 Hawkeye Travel School - Waterloo:

Travel Careers

670 Midwest Travel Institute - Davenport

Travel Careers, eight weeks

260 Spencer School of Business - Spencer

Airline and Travel Careers, 10 months

AREA SCHOOLS

730 Iowa Lakes Community College - Estherville:

Travel & Tourism, two years



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CLERICAL

CISI NO. 1938

GROUP: 1900's - BUSINESS AND OFFICE

- Clerical Programs include the study of general clerical duties. These duties may be copying data, compiling reports, tabulating and posting data, operating office machines and handling mail and correspondence. Shorter programs stress typing and filing. Longer programs add courses in more office skills. The length of the programs varies from one semester to one year.

- Course work for Clerical Programs may include:

Business Writing	Human Relations
Secretarial Accounting	Data Processing
Records Management	Word Processing
Business Mathematics	Business Law
Business Machines	English
Office Procedures	Typing

- Liberal arts courses may be part of the programs. Options for areas of emphasis are insurance, legal and medical. On-the-job training and off-campus work experience may be available.
- Courses which would be helpful in preparing for Clerical Programs include typing, English, office procedures, bookkeeping, mathematics, office machines and machine transcription.

- CISI occupations commonly entered by graduates include:

1435 Admitting Clerk
1433 File Clerk
1418 General Office Clerk
1628 Payroll/Timekeeping Clerk
1622 Statistical Clerk
1454 Telephone Operator
1417 Typist
1436 Ward Clerk

- Related military occupations include:

14350 Lodging Specialists
14180 Administrative Support Specialists
16280 Payroll Specialists
16220 Maintenance Data Specialists
14540 Telephone Operators

- Sixteen Iowa schools have reported programs in Clerical.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

SPECIALIZED SCHOOLS

210 American Institute of Business - Des Moines

General Clerical

240 Hamilton Business College - Cedar Rapids

Medical Clerical

Office Clerical

250 Hamilton Business College - Mason City

Office Clerical

620 Job Corps - Denison:

Clerk Typist, eight months

General Office Clerk, eight months

AREA SCHOOLS

705 Des Moines Area Community College - Ankeny:

Clerical, two quarters

710 Eastern Iowa Community College District -

Bettendorf: Clerical Education Program, two sem

Clinton: Clerical Receptionist Program, one year

Muscatine: General Office Program, two semesters

715 Hawkeye Institute of Technology - Waterloo:

Business Office Clerical, two quarters

725 Iowa Central Community College - Fort Dodge,

Eagle Grove, Webster City: Office Assistant, two semesters

735 Iowa Valley Community College District -

Iowa Falls: Cooperative Clerical Program, two sem.

Clerical, one year

Marshalltown: Clerical Services, one or two years

740 Iowa Western Community College - Council Bluffs

Office Clerk - One semester

Office Skills, one semester

745 Kirkwood Community College - Cedar Rapids:

Clerical, three quarters

750 North Iowa Area Community College - Mason City:

Clerical Program, nine months

Clerical Receptionist, two years

755 Northeast Iowa Technical Institute -

Calmar: Office Education, Clerical, three quarters

Peosta: Office Education, Clerical, three quarters

765 Southeastern Community College -

Keokuk: Office Careers Clerical, two semesters

West Burlington: Office Careers Clerical, two semesters

770 Southwestern Community College - Creston:

Office Occupations - Clerical, two semesters

775 Western Iowa Technical C C - Sioux City

Office Assistant, two quarters



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RECEPTIONIST AND COMMUNICATION SYSTEMS

OPERATION

CISI NO. 1940

- **GROUP: 1900's - BUSINESS AND OFFICE**
- Receptionist and Communication Systems Operation Programs include the study of the methods of answering and recording phone calls and making appointments. Other duties studied may be: making travel reservations, operating a switchboard, supplying information and operating other equipment for sending and receiving messages. Longer programs stress office skills. The program length varies from three to four quarters.
- Course work for Receptionist and Communication Systems Operation Programs may include:

Receptionist Training	Records Management
General Word Processing	Office Procedures
Business Letter Writing	English
Secretarial Accounting	Speech
Business Mathematics	Typing
- Courses which would be helpful in preparing for Receptionist and Communication Systems Operation Programs include typing, English, office procedures, bookkeeping, office machines and mathematics.

- CISI occupations commonly entered by graduates include:

1433 File Clerk
1418 General Office Clerk
1452 Receptionist
1454 Telephone Operator
1425 Ticket Agent
1417 Typist

- Related military occupations include:

14180 Administrative Support Specialists
14540 Telephone Operators
14240 Transportation Specialists

- Three Iowa schools have reported programs in Receptionist and Communication Systems Operation.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

SPECIALIZED SCHOOLS

- 210 American Institute of Business** - Des Moines
Receptionist and General Office, four quarters
- 250 Hamilton Business College** - Mason City
Office Receptionist, 12 months
- 620 Job Corps** - Denison:
Receptionist



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STOCK CLERK

CISI NO. 1941

GROUP: 1900's - BUSINESS AND OFFICE

- Stock Clerk programs intend to prepare individuals to pack and prepare outgoing material, to receive and unpack materials, and to maintain appropriate records. Methods of maintaining inventory, organizing and resupplying are included. The program is six months in length.
- CISI occupations commonly entered by graduates include:
 - 7116 Shipping and Receiving Clerk
 - 7118 Stock Clerk
- Related military occupations include:
 - 71160 Shipping and Receiving Specialists
 - 71180 Stock and Inventory Control Specialists
- One Iowa school has reported a Stock Clerk program.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

SPECIALIZED SCHOOLS

620 Job Corps - Denison
Stock Clerk, six months



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WORD PROCESSING

CISI NO. 1944

GROUP: 1900's - BUSINESS AND OFFICE

- Word Processing Programs include study of how to produce and edit written communication on special purpose machines. These machines correct, format and print information. The program length is four quarters.

- Course work for the Word Processing Programs includes:

Business Communication
Automatic Office Systems
Office Accounting
Records Management
Typing

Office Procedures
Math & Machines
Human Relations
Word Processing

- Office Practicums are included in the program.
- Courses which would be helpful in preparing for Word Processing Programs include typing, bookkeeping and general business.
- CISI occupations commonly entered by graduates include:

1621 Billing Clerk
1418 General Office Clerk
1628 Payroll/Timekeeper Clerk
1442 Secretary
1622 Statistical Clerk

1425 Receptionist
1417 Typist
1462 Word Processing Operator

- Related military occupations include:

14180 Administrative Support Specialists
14420 Secretaries and Stenographers

- Five Iowa school has reported a program in Word Processing.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

SPECIALIZED SCHOOLS

220 American Institute of Commerce - Bettendorf
Airline & Travel Careers/ Word Processing
Word Processing Specialist, four quarters

605 American College of Travel & Word Processing
Des Moines: Word Processing, five or eight weeks

620 Job Corps - Denison
Word Processing, eight months

AREA SCHOOLS

755 Northeast Iowa Technical College - Peosta:

Word Processing, 36 weeks

775 Western Iowa Technical C C - Sioux City

Information/Word Processing, four quarters



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FASHION MERCHANDISING

CISI NO. 2002

GROUP: 2000's - MARKETING AND DISTRIBUTION

- Fashion Merchandising Programs include the study of the marketing of apparel and accessories. Included in the program is fashion selling and buying, fashion cycles, and coordination. Longer programs include liberal arts and general business courses. The program length varies from four quarters to four years.

- Course work for Fashion Merchandising Programs may include:

Intro to Fashion Business	Advertising
Fashion Show Procedures	Promotions
Business Mathematics	Textiles
Business Principles	Retailing
Color and Design	Marketing
Salesmanship	Display
Accounting	Buying

- On-the-job training and off-campus work experience may be available.
- Courses which would be helpful in preparing for Fashion Merchandising Programs include bookkeeping, business, home economics (clothing), mathematics, typing and art design.
- CISI occupations commonly entered by graduates include:

1196 Advertising Account Executive

4724 Commercial Artist
7414 Manufacturer's Representative
2372 Visual Display Artist
7448 Product Demonstrator
1149 Retail Store Manager
4446 Tailor
1181 Wholesale/Retail Buyer

- Related military occupations include:

47240 Graphic Designers and Illustrators
11490 Store Managers

- Eight Iowa schools have reported programs in Fashion Merchandising.

- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

SPECIALIZED SCHOOLS

220 American Institute of Commerce - Bettendorf
Fashion Merchandising, four quarters

AREA SCHOOLS

705 Des Moines Area Community College - Ankeny:

Fashion Merchandising, five terms

715 Hawkeye Institute of Technology - Waterloo:

Textiles and Fashion Merchandising, six quarters

725 Iowa Central Community College - Fort Dodge:

Fashion Merchandising Program, four semesters

735 Iowa Valley Community College - Iowa Falls

Fashion Merchandising, four semesters

740 Iowa Western Community College - Council Bluffs

Fashion Merchandising, two years

745 Kirkwood Community College - Cedar Rapids:

Fashion Merchandising, seven quarters

COLLEGES AND UNIVERSITIES

991 Iowa State University - Ames

Fashion Merchandising, four years



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FASHION MODELING

CISI NO. 2003

GROUP: 2000's - MARKETING AND DISTRIBUTION

- Fashion Modeling Programs include the study of the display of clothing and accessories. Individual appearance and poise are stressed. The program length varies thirty weeks to two years.

- Course work for the Fashion Modeling Programs may include:

Personality Development	Wardrobe
Camera and Television Work	Hair Care
Voice Improvement	Make Up
Visual Poise	Skin Care

- Courses which would be helpful in preparing for Fashion Modeling Programs include theater and dance.

- CISI occupations commonly entered by graduates include:

7448 Product Demonstrator

- Five Iowa schools have reported programs in Fashion Modeling.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

SPECIALIZED SCHOOLS

600 Ada Gaffney Shaff Charm & Modeling School - Bettendorf
Modeling

610 Barbizon School of Modeling - Des Moines: Model, 23 wk

616 Corrine Shover School of Modeling - Cedar Rapids:
Model

645 Iowa Institute of Technology - Waterloo
Fashion Merchandising/Arts/Modeling, three semesters

672 Mirage International, Ltd. - Des Moines: Model, 24 wk



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FOOD MARKETING

CISI NO. 2023

GROUP: 2000's - MARKETING AND DISTRIBUTION

- Food Marketing Programs include the study of the wholesale distribution of food and beverages to consumers. The consumers are usually retailers, restaurant and institutional users. Retail store management is stressed. The program length varies from six quarters to two years.

- Course work for Food Marketing Programs may include:

Merchandising	Salesmanship
Accounting	Retailing
Business Law	Marketing
Business Economics	Promotions

- On-the-job work experience is available.
- Courses which would be helpful in preparing for Food Marketing Programs include retailing, salesmanship, general math, bookkeeping and distributive education.
- CISI occupations commonly entered by graduates include:

7414 Manufacturer's Representative
1184 Purchasing Agent
7454 Salesperson
1181 Wholesale/Retail Buyer

- Related military occupations include:

11841 Purchasing and Contracting Managers
11842 Supply and Warehousing Managers
16420 Sales and Stock Specialists

- Two Iowa schools have reported programs in Food Marketing.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

725 Iowa Central Community College - Fort Dodge:
Food Marketing Management, two years
745 Kirkwood Community College - Cedar Rapids:
Food Store Management, six quarters



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AUCTIONEERING

CISI NO. 2029

GROUP: 2000's - MARKETING AND DISTRIBUTION

- Auctioneering Programs include the study of how to organize and conduct auctions. Appraising and valuing merchandise is included. The program length is two weeks.

- Course work for the Auctioneering Programs may include:

Horse and Pony Auctions
Real Estate Auctions
Dog and Gun Auctions
Automobile Auctions
Auction House Sales
Livestock Managing
Household Auctions
Machinery Auctions

Tobacco Auctions
Antique Auctions
Bankruptcy Sales
Farm Auctions
Auction Law
Advertising
Clerking
Voice

- CISI occupations commonly entered by graduates: No CISI occupations were reported.

- CISI occupations commonly entered by graduates include:

1634 Appraiser
7442 Auctioneer

- Three Iowa schools have reported programs in Auctioneering.

- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

SPECIALIZED SCHOOLS

637 International College of Auctioneering - Davenport:

Auctioneer, one week

665 Mason City College of Auctioneering - Mason City:

Auctioneering, 7 days

698 World Wide College of Auctioneering - Mason City

Auctioneering, two weeks



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INTERNATIONAL MARKETING

CISI NO. 2031

GROUP: 2000's - MARKETING AND DISTRIBUTION

- International Marketing Programs include the study of marketing activities in world markets. Trade controls, foreign trade operations, locating markets, negotiating and international public relations are all included in the program. The program length is two years.
- Course work for the International Marketing Programs may include:

Foreign Trade Documentation
International Transportation
Intro to Data Processing
Techniques of Marketing
Principles of Exporting
International Business

Exploring World Trade
Principles of Selling
Foreign Cultures
Accounting
Economics
Foreign Language

- Courses which would be helpful in preparing for International Marketing Programs include bookkeeping, mathematics, foreign language and typing.
- CISI occupations commonly entered by graduates include:

7429 Industrial Products Salesperson
7414 Manufacturer's Representative
7415 Securities/Commodities Sales Agent
1181 Wholesale/Retail Buyer

- Two Iowa school have reported programs in International Marketing.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

705 Des Moines Area Community College - Ankeny:

International Trades, two years

745 Kirkwood Community College - Cedar Rapids:

International Trade Marketing, six quarters



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RETAILING

CISI NO. 2033

GROUP: 2000's - MARKETING AND DISTRIBUTION

- Retailing Programs include the study of how to apply marketing skills in a retail business. Longer programs stress more detail and a wider variety of retailing specialties. The program length varies from three quarters to four years.

- Course work for Retailing Programs may include:

Psychology of Human Relation	Product Analysis
Introduction to Business	Merchandising
Principles of Retailing	Salesmanship
Principles of Marketing	Accounting
Credit, Collections/ Finance	Business Law
Business Mathematics	Advertising
Personnel Management	Economics
Communication Skills	Display

- Fashion merchandising may be available as an emphasis. On-the-job training may be available.
- Courses which would be helpful in preparing for Retailing Programs include English, speech, mathematics, bookkeeping, business law and general business courses.

- CISI occupations commonly entered by graduates include:

7418 Automobile Salesperson
7429 Industrial Products Salesperson
7414 Manufacturing Representative
1184 Purchasing Agent
1149 Retail Store Manager
1162 Sales Manager
7454 Salesperson
1181 Wholesale/Retail Buyer

- Related military occupations include:

11841 Purchasing and Contracting Managers
11842 Supply and Warehousing Managers
11490 Store Managers
16420 Sales and Stock Specialists

- Thirteen Iowa schools have reported programs in Retailing.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

SPECIALIZED SCHOOLS

230 American Institute of Commerce - Cedar Falls:

Retail Marketing, four quarters

260 Spencer School of Business - Spencer

Retail Merchandising, 10 months

AREA SCHOOLS

- 705 Des Moines Area Community College** - Ankeny:
Retail Marketing Management, five terms
Retail Merchandising, three terms
- 715 Hawkeye Institute of Technology** - Waterloo:
Marketing Management, six quarters
Retail Sales, two quarters
- 725 Iowa Central Community College** - Fort Dodge:
Retail Management Technology, three terms
- 735 Iowa Valley Community College** - Iowa Falls
Retail Marketing Management, two years
- 740 Iowa Western Community College** - Council Bluffs
Retail Merchandising - One Year
- 745 Kirkwood Community College** - Cedar Rapids:
Retail Marketing, seven quarters
Retail Management Technology
Retail Marketing Specialist
- 750 North Iowa Area Community College** - Mason City
Retail Merchandising (with fashion option), two yrs
- 755 Northeast Iowa Technical College** - Peosta:
Marketing, seven quarters
- 760 Northwest Iowa Technical College** - Sheldon:
Marketing Management, four quarters or six quarters
- 775 Western Iowa Technical Comm. Coll.** - Sioux City:
Retail Sales, four quarters
Marketing Management, four quarters (four prerequisite)

COLLEGES AND UNIVERSITIES

- 840 Drake University** - Des Moines
Retailing Management, four years



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WHOLESALING

CISI NO. 2035

GROUP: 2000's - MARKETING AND DISTRIBUTION

- Wholesaling Programs include the study of how to apply marketing skills in a wholesale business. Included in the program is purchasing, inventory, warehousing, transportation and sales. The program length is two years.
- Course work for the Wholesaling Programs may include:

Introduction to Wholesale Distribution
Introduction to Business
Business Math
Communications
Business Law
Salesmanship
Warehouse Operation
Transportation
Marketing

- Work experience in a wholesale firm is available.
- CISI occupations commonly entered by graduates include:

7414 Manufacturer's Representative
1162 Sales Manager
1181 Wholesale/Retail Buyer

- One Iowa school has reported a program in Wholesaling.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

750 North Iowa Area Community College - Mason City:
Wholesale Marketing, two years



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RENTAL MARKETING

CISI NO. 2072

GROUP: 2000's - MARKETING AND DISTRIBUTION

- Rental Marketing Programs intend to prepare individuals to manage retail rental stores. Included is instruction in setting rental rates, repair, inventory control, personnel, bookkeeping, advertising and management. The program length is eight quarters.

- Course work for Rental Marketing Programs may include:

Rental Transactions	Welding
Office Procedures	Hydraulics
Mechanics	Electric Modes
Equipment Familiarization	Establishing Rates
Advertising	Finance

- Courses which would be helpful in preparing for Rental Marketing Programs include business and mechanics.

- CISI occupations commonly entered by graduates include:

1149 Retail Store Manager

- Related military occupations include:

11490 Store Managers

- One Iowa school has reported programs in Rental Marketing.

- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

775 Western Iowa Technical Comm. Coll. - Sioux City
Rental Management Technology, eight qtrs
Equipment Rental



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COMMUNICATIONS

CISI NO. 2201

GROUP: 2200's - COMMUNICATIONS

- Communications programs include instruction in creating, delivering and evaluating messages. Options to specialize may be in: speech, radio and television, journalism, theater arts, literature, broadcasting and teaching. The program length is four years.
- Course work for Communications programs may include:

Business Administration	Public Address
Principles of Communication	Journalism
Radio/Television Production	Advertising
Broadcast Announcing	Psychology
Photography	Writing
- In addition to Communications, programs include many general liberal arts courses. Many programs include cooperative work experiences as part of their curriculum. Some schools operate their own radio stations in which students can gain practical experience.
- Courses which would be helpful in preparing for Communications programs include speech, journalism, English, literature and drama. Experiences with school or other publications would also be helpful.
- CISI occupations commonly entered by graduates include:

9866 Actor/Actress

1196 Advertising Account Executive
4734 Photographer
1195 Public Relations Specialist
9824 Radio/TV Announcer
8456 Secondary Teacher
2177 Technical Writer

- Related military occupations include:

98671 Band Managers
47340 Photographers
11950 Public Information Officers
98240 Radio and TV Announcers
21730 Reporters and Newswriters
84560 Trainers
84540 Teachers and Instructors

- Eleven Iowa schools have reported Communications programs.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

710 Eastern Iowa Community College -
Muscatine: Communication Media
Bettendorf: Communication Media

COLLEGES AND UNIVERSITIES

815 Clarke College - Dubuque: Communications

835 Dordt College - Sioux Center: Communications

850 Graceland College - Lamoni

Communications, four years

855 Grandview College - Des Moines: Mass Communications

865 Iowa Wesleyan college - Mount Pleasant:

Communications

885 Marycrest College - Davenport:

Communication: Performing Arts

Communication: Business and Organizational

905 Northwestern College - Orange City:

Communication Studies

995 University of Northern Iowa - Cedar Falls

Communications, Training & Technology

950 Wartburg College - Waverly: Communication

965 William Penn College - Oskaloosa: Communication Arts



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ADVERTISING

CISI NO. 2202

GROUP: 2200's - COMMUNICATIONS

- Advertising Programs include the creation, presentation and evaluation of commercial messages. These messages are concerned with the promotion and sale of products and services. The program length is four years.
- Course work for Advertising Programs may include:

Print and Broadcast Media	Copywriting
Broadcast Reproduction	Marketing
Basics of Mass Media	Reporting
Media Economics	Ethics
Advertisement	Sales
Management	
- Options to specialize include marketing, consumer behavior, public relations and research. Internships are available.
- Courses which would be helpful in preparing for Advertising Programs include English and speech. Broadcasting experience would be helpful also.
- CISI occupations commonly entered by graduates include:

1196 Advertising Account Executive
1195 Public Relations Specialist

2173 Journalist
2177 Technical Writer

- Related military occupations include:

11950 Public Information Officers
21730 Reporters and Newswriters

- Three Iowa schools have reported programs in Advertising.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

715 Hawkeye Institute of Technology - Waterloo:
Telemarketing, one quarter

745 Kirkwood Community College - Cedar Rapids:
Telemarketing

COLLEGES AND UNIVERSITIES

840 Drake University - Des Moines:
Advertising, four years
Broadcast Sales and Management, four years



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JOURNALISM

CISI NO. 2204

GROUP: 2200's - COMMUNICATIONS

- Journalism Programs include the principles and methods of gathering, processing and distributing current events and issues. The program length is four years.
- Course work for Journalism Programs may include:

Mass Comm. Principles	Advertising
Photo Journalism	Copy Editing
Introduction to Business	Reporting
Ethics and Legal Issues	Government
Journalistic Writing	English
- Options to specialize may be: editorial news, home economics, agricultural or engineering journalism.
- Internships and off-campus work experiences may be available. Some schools have campus newspapers or on-campus radio stations.
- Courses which would be helpful in preparing for Journalism Programs include English, journalism, economics, typing, shorthand, literature and history.
- CISI occupations commonly entered by graduates include:

1196 Advertising Account Executive

4734 Photographer
1195 Public Relations Specialist
9824 Radio/TV Announcer
8456 Secondary Teacher
2177 Technical Writer

- Related military occupations include:

47340 Photographers
11950 Public Information Officers
98240 Radio and TV Announcers
21730 Reporters and Newswriters
98560 Trainers
98540 Teachers and Instructors

- Eleven Iowa schools have reported programs in Journalism.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

730 Iowa Lakes Community College - Estherville:

Journalism/Photography, two years

735 Iowa Valley Community College - Marshalltown

Journalism

COLLEGES AND UNIVERSITIES

- 800 Briar Cliff College** - Sioux City
Mass Communication, four years
- 805 Buena Vista College** - Storm Lake
Mass Communication, four years
- 840 Drake University** - Des Moines:
Magazine Journalism, four years
- 850 Graceland College** - Lamoni
Publications Design
- 855 Grandview College** - Des Moines
Journalism, four years
- 991 Iowa State University** - Ames
Journalism & Mass Communications
- 885 Marycrest College** - Davenport
Communications/ Journalism, four years
- 890 Morningside College** - Sioux City
Mass Communications, four years
- 991 Iowa State University** - Ames:
Agriculture Journalism, four years
Family & Consumer Journalism, four years
- 993 University of Iowa** - Iowa City
Journalism/Mass Communication, four years



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PUBLIC RELATIONS

CISI NO. 2205

GROUP: 2200's - COMMUNICATIONS

- Public Relations Programs include the study of the methods and techniques used to persuade the public. Usually the persuasion builds an understanding of goodwill toward the business firm or institution. The program length is four years.
- Course work for Public Relations Programs may include:
 - Public Relations Principles
 - Management Principles
 - Publicity
 - Promotional Media
 - Marketing Communications
 - Campaign Strategy
- Options available for specialization may be financial relations, marketing, government and internal relations.
- Internships and other off-campus work experiences are available.
- Courses which would be helpful in preparing for Public Relations Programs include English, creative writing, journalism, speech and typing.

- CISI occupations commonly entered by graduates include:

1196 Advertising Account Executive
1195 Public Relations Specialist

- Related military occupations include:

11950 Public Information Officers

- Four Iowa schools have reported programs in Public Relations.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

840 Drake University - Des Moines

Public Relations, four years

885 Marycrest - Davenport

Public Relations, four years

895 Mount Mercy College - Cedar Rapids

Public Relations, four years

995 University of Northern Iowa - Cedar Falls

Communications - Public Relations, four years



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RADIO/TELEVISION

CISI NO. 2207

GROUP: 2200's - COMMUNICATIONS

- Radio/Television programs include study of the methods and techniques used to produce and broadcast radio and television programs. The program length varies from four quarters to four years.

- Course work for Radio/Television Programs may include:

Mass Media
Reporting
Radio/TV Production
News Film
Announcing
Continuity Writing
Communication Law

Television Directing
Journalism
Speech
Psychology
Photography
Principles of Business

- Options to specialize include management, advertising and public relations.
- Internships and off-campus work experiences may be available. Several schools operate radio and television studios.
- Courses which would be helpful in preparing for Radio/ Television Programs include English, drama, speech and creative writing. Practical experiences in radio, television and journalism areas would also be helpful.

- CISI occupations commonly entered by graduates include:

1196 Advertising Account Executive
5664 Broadcast Technician
4734 Photographer
1195 Public Relations Specialist
9824 Radio/TV Announcer
2177 Technical Writer

- Related military occupations include:

56640 Broadcast and Recording Technicians
56641 Communications Managers
56009 Space Systems Specialists
47340 Photographers
11950 Public Information Officers
98240 Radio and TV Announcers
21730 Reporters and Newswriters

- Eleven Iowa schools have reported programs in Radio/ Television.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

SPECIALIZED SCHOOLS

220 American Institute of Commerce - Bettendorf:
Radio Broadcasting, four quarters

AREA SCHOOLS

710 Eastern Iowa Community College -

Radio & TV Production, (Bettendorf) 4 sem (Moline)

Communications Media, (Clinton) 72 hrs

725 Iowa Central Community College - Fort Dodge:

Broadcasting, two years

745 Kirkwood Community College - Cedar Rapids:

Communications Media and Technology, two years

775 Western Iowa Technical Community College - Sioux City

Radio/TV Broadcasting, four semesters

COLLEGES AND UNIVERSITIES

840 Drake University - Des Moines:

Broadcast Journalism, four years

Radio/Television, four years

855 Grandview College - Des Moines:

Radio/Television, two years

991 Iowa State University - Ames:

Telecommunicative Arts, four years

885 Marycrest - Davenport:

Communications, four years

995 University of Northern Iowa - Cedar Falls:

Communications Radio/Television, four years

Communications Radio/Television, Business Option
four years

960 Westmar College - Le Mars:

Radio/TV Broadcasting, three years



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COMPUTER AND INFORMATION SCIENCES

CISI NO. 2701

GROUP: 2700's - COMPUTER AND INFORMATION SCIENCES

- Computer and Information Sciences programs include the methods of coding. The methods are used following strict systems and procedures. The program length varies from a ten hour introductory program to a four year degree program.
- Course work for Computer and Information Sciences Programs may include:

Mathematics
Programming
Computer Design
Compiling
Systems Hardware

Data Structures
Modeling and Simulation
Computer Languages
Digital Logic

- Options to specialize include programming, system analysis, business, sciences or medical applications. Liberal arts courses are part of the program. Internships are available in some programs.
- Courses which would be helpful in preparing for Computer and Information Sciences include mathematics, science and English, especially grammar.
- CISI occupations commonly entered by graduates include:

1686 Computer/Peripheral Equipment Operator

1684 Computer Programmer
1683 Systems Analyst

- Related military occupations include:

16860 Computer Operators
56009 Space Systems Specialists
16840 Computer Programmers
16832 Computer Systems Development Officers
16831 Data Processing Managers
16830 Computer Systems Analysts

- Twenty seven Iowa schools have reported programs in Computer and Information Sciences.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

705 Des Moines Area Community College - Ankeny:
Computer Science Technology, two years

COLLEGES AND UNIVERSITIES

- 800 Briar Cliff College** - Sioux City:
Computer Science, four years
- 805 Buena Vista College** - Storm Lake:
Computer Science, four years
- 810 Central College** - Pella:
Computer Science, four yrs
- 820 Coe College** - Cedar Rapids:
Computer Science, four years
- 835 Dordt College** - Sioux Center
Computer Science, four yrs
- 840 Drake University** - Des Moines
Computer Science, four years
- 850 Graceland College** - Lamoni:
Computer Science, four years
- 855 Grandview College** - Des Moines:
Applied Computer Science, two or four years
- 991 Iowa State University** - Ames:
Computer Science, four years
- 865 Iowa Wesleyan College** - Mount Pleasant:
Computer Science, four years
- 870 Loras College** - Dubuque:
Computer Science, four years
- 875 Luther College** - Decorah
Computer Science, four years
- 880 Maharishi International Univ.** - Fairfield:
Computer Science
- 885 Marycrest College** - Davenport:
Computer Science, four years
- 890 Morningside College** - Sioux City:
Computer Science, four years
- 895 Mount Mercy College** - Cedar Rapids:
Computer Science, four years
- 905 Northwestern College** - Orange City:
Computer Science, four years
- 920 Simpson College** - Indianola:
Computer Science, four years
- 915 St. Ambrose College** - Davenport:
Computer Science, four years
- 925 University of Dubuque** - Dubuque:
Computer Info Science, four years
Informational Science, four years
- 993 University of Iowa** - Iowa City:
Computer Science, four years
- 995 University of Northern Iowa** - Cedar Falls:
Computer Science, four years
- 935 Upper Iowa University** - Fayette:
Computer Science, four years
- 950 Wartburg College** - Waverly:
Computer Science, four years
- 960 Westmar College** - Le Mars:
Computer Science/Information Science, four years
- 965 William Penn College** - Oskaloosa:
Analytical Computer Science, four years
Applied Computer Science, four years
Computer Science, four years



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COMPUTER PROGRAMMING

CISI NO. 2702

GROUP: 2700's - COMPUTER AND AND INFORMATION SCIENCES

- Computer Programming Programs include the study of the methods and procedures used in writing instructions in computer languages for computer operation. Longer programs cover broader applications and more computer languages. The program length varies from four quarters to two years.

- Course work for Computer Programming Programs may include:

Programming Languages
Intr to Systems Analysis
Intro to Data Processing
Data Processing Applications
Systems Management

Data Base Management
Mathematics
Accounting
Statistics

- Internships and other off-campus experiences are available.
- Courses which would be helpful in preparing for Computer Programming Programs include mathematics, accounting, English, science and business.
- CISI occupations commonly entered by graduates include:

1617 Accounting Technician
1686 Computer/Peripheral Equipment Operator
1684 Computer Programmer

1683 Systems Analyst

- Related military occupations include:

16170 Accounting Specialists
16860 Computer Operators
56009 Space Systems Specialists
16840 Computer Programmers
16832 Computer Systems Development Officers
16831 Data Processing Managers
16830 Computer Systems Analysts

- Thirteen Iowa schools have reported programs in Business Data Programming.

- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

SPECIALIZED SCHOOLS

210 American Institute of Business - Des Moines
Computer Programming and Accounting

AREA SCHOOLS

705 Des Moines Area Community College - Ankeny:

Business and Computers, two years

Computer Programmer, five terms

710 Eastern Iowa Community College - Bettendorf:

Business Computer Programming, two years

720 Indian Hills Community College - Ottumwa:

Computer Programmer/Systems Analyst, 18 months

725 Iowa Central Community College - Fort Dodge

Data Processing, two years

740 Iowa Western Community Coll. - Council Bluffs

Computer Programmer, six quarters

745 Kirkwood Community College - Cedar Rapids:

Computer Programming Technology, six quarters

755 Northeast Iowa Technical College - Peosta:

Business Computer Programming, 72 weeks

760 Northwest Iowa Technical College - Sheldon:

Applied Computer Programming, two years

765 Southeastern Community Coll. -

Burlington: Computer Programmer, six quarters

Keokuk: Computer Programmer, six quarters

Keokuk: Business Data Programming

770 Southwestern Community College - Creston:

Computer Programmer, two years

775 Western Iowa Technical Comm. Coll. - Sioux City

Data Processor, four quarters

COLLEGES AND UNIVERSITIES

945 Waldorf College - Forest City:

Data Processing / Programmer



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INFORMATION SCIENCES AND SYSTEMS

CISI NO. 2704

GROUP: 2700's - COMPUTER AND INFORMATION SCIENCES

- Information Sciences and Systems Programs include study of principles and techniques involved in the designing of large scale computer programs. Also included is the development of flow charts and the review of data organization to evaluate the programs organizational objectives. The program length varies from 18 months to four years.

- Course work for Information Sciences and Systems Programs may include:

Accounting
Intro to Data Processing
System Analysis
System Design
Data Processing Applications
Programming

Mathematics
System Management
Accounting
Statistics
Data Base Man.
Models

- Internships and off-campus work experiences may be available.
- Courses which would be helpful in preparing for Information Sciences and Systems Programs include mathematics, computer science, psychology, economics, accounting, English, science and business.
- CISI occupations commonly entered by graduates include:

1686 Computer/Peripheral Equipment Operator

1684 Computer Programmer
1683 Systems Analyst

- Related military occupations include:

16860 Computer Operators
56009 Space Systems Specialists
16840 Computer Programmers
16832 Computer Systems Development Officers
16831 Data Processing Managers
16830 Computer Systems Analysts

- Seven Iowa schools have reported programs in Information Sciences and Systems.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

735 Iowa Valley Community College - Ellsworth
Computer Management

COLLEGES AND UNIVERSITIES

805 Buena Vista College - Storm Lake:

Computer Information Systems/Management, four years

815 Clarke College - Dubuque

Management Information Systems / Computer, four years

840 Drake University - Des Moines:

Computer Information Systems, four years

900 Mount St. Clare College - Clinton

Computer Information Systems, four years

995 University of Northern Iowa - Cedar Falls:

Computer Information Systems, four years

950 Wartburg College - Waverly:

Computer Information Systems, four years



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BARBERING

CISI NO. 2812

GROUP: 2800's - CONSUMER AND PERSONAL SERVICES

- Barbering Programs include the techniques of cutting, shampooing and styling hair. Included are techniques of shaving and massaging. Emphasis is given to hygiene, skin and scalp disease and equipment sterilization. The program length is 10 1/2 months. Applicants must be 16 years old and have completed the 10th grade. The application is sent to the Barber Division, State Department of Health, for permission to enroll. After completing the program, students must pass the State Barber Examination to obtain a license.

- Course work for Barbering Programs may include:

Scalp Care
Shampooing
Honing & Stropping
Shaving
Haircutting
Hair Tonics
Dying & Bleaching

Hairstyling & Blow Waving
Hair Body Processing
Hair Pieces
Make-Up
Shop Management
Advertising

- Courses which would be helpful in preparing for Barbering Programs include speech, bookkeeping, chemistry, biology and business management.

- CISI occupations commonly entered by graduates include:

8284 Barber
7448 Product Demonstrator
8453 Specialty Instructor

- Related military occupations include:

82840 Barbers

- Five Iowa schools have reported programs in Barbering.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

SPECIALIZED SCHOOLS

110 Cedar Rapids School of Hairstyling - Cedar Rapids:

Barber Stylist, 10 1/2 months

112 College of Hair Design - Waterloo

Barber Styling, 10 1/2 months

120 Davenport Barber College - Davenport:

Barbering, 10 1/2 months

130 Iowa School of Barbering and Hairstyling - Des Moines:

Barbering/Hairstyling, 10 1/2 months

140 Sioux City Barber College - Sioux City:

Barbering, 10 1/2 months



PROGRAMS OF STUDY AND TRAINING

COSMETOLOGY

CISI NO. 2813

GROUP: 2800's - CONSUMER AND PERSONAL SERVICES

- Cosmetology Programs include the techniques of care for hair, complexion and hands. The techniques include:

shampoo, rinse and scalp treatment; styling, setting, cutting, tinting and permanent waving; and giving facials and manicures. Emphasis is on hygiene, sanitation, customer relations and salon management. The length of the program is 2100 hours including instruction and practical experience. Applicants must have completed the 10th grade or equivalent. Schools may have more requirements. Upon completion of a program students must pass the State Cosmetology exam to obtain a license.

- Course work for Cosmetology Programs may include:

Sanitation & Sterilization
Shampoos & Rinses
Scalp & Hair Treatments
Hair Shaping
Hairstyling
Wiggery
Manicuring
Permanent Waving
Hair Coloring & Lightening

Facials & Make-up
Safety Precautions
Blow Drying & Combing
Curling
Male Hairstyling
Male Haircutting
Human Relations
Legal & Business Matters
Sculptured Nails

- After completing cosmetology training, some students continue in instructor's programs. Instructor training requires 1000 additional hours.
- Courses which would be helpful in preparing for Cosmetology Programs include art, biology, chemistry, physics, bookkeeping and business.
- CISI occupations commonly entered by graduates include:
 - 8286 Cosmetologist
 - 7448 Product Demonstrator
 - 8453 Specialty Instructor
- Related military occupations include:
 - 82840 Barbers
- Thirty seven Iowa schools have reported programs in Cosmetology.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

SPECIALIZED SCHOOLS

310 Bernell College of Cosmetology - Ames
315 Bernell College of Cosmetology - Fort Dodge
319 Bill Hills College of Cosmetology - Davenport
320 Bill Hills College of Cosmetology - Fort Madison

325 Burlington Beauty Academy - Burlington
330 Capri Cosmetology College - Cedar Rapids
331 Capri Cosmetology College - Davenport
335 Capri Cosmetology College - Dubuque
340 Capri Cosmetology College - Mason City
345 Cosmetology Careers Inc. - Marshalltown
350 Faust Institute of Cosmetology - Storm Lake
355 Hair Tech School of Cosmetology - Creston
360 Institute of Cosmetology Arts- Fort Madison
365 Iowa School of Beauty, Inc. - Des Moines
366 Iowa School of Beauty, Inc. - Ottumwa
375 La'James College of Hairstyling - Cedar Falls
380 La'James College of Hairstyling - Davenport
385 La'James College of Hairstyling - Des Moines
390 La'James College of Hairstyling - Fort Dodge, also
395 La'James College of Hairstyling - Iowa City
400 La'James College of Hairstyling - Mason City
405 La'James College of Hairstyling - Waterloo
410 Le Mars Beauty College, Inc. - Le Mars
415 Ms. Francis College of Cosmetology - Spencer
425 Professional Cosmetology Institute - Ames
430 Professionals Academy of Science and Beauty - Clinton
435 Salvador Beauty College - Des Moines
440 Southwest Iowa Cosmetology Coll. - Shenandoah
450 Stewart School of Hairstyling - Council Bluffs
455 Stewart School of Hairstyling - Sioux City
460 Tri -State Cosmetology Academy - Keokuk
465 Universal Cosmetology College - Decorah
470 West Beauty School - Muscatine
475 Young Cosmetology College - Waterloo
480 Young Cosmetology College - Cedar Rapids

AREA SCHOOLS

755 Northeast Iowa Technical Institute - Calmar
765 Southeastern Comm. Coll. - West Burlington/Keokuk



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MASSAGE

CISI NO. 2815

GROUP: 2800's - CONSUMER AND PERSONAL SERVICES

- Massage Programs include the techniques necessary to increase circulation, promote healing and increase suppleness in the human body. The length of the program is nine months.

- Course work for Massage Programs may include:

Anatomy/Physiology
Hydro Therapy
First Aid

Massage Theory
C.P.R.
Business Practices

- CISI occupations commonly entered by graduates include:

No CISI occupations were reported

- Two Iowa schools have reported programs in Massage
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

SPECIALIZED SCHOOLS

615 Carlson College Of Massage Therapy - Cedar Rapids
Massage, nine months

650 Iowa School of Natural Therapeutics - Cedar Rapids
Massage, six months



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EDUCATION

CISI NO. 2901

GROUP: 2900's - EDUCATION

- Education programs include the wide range of arts and sciences. The techniques of passing information on to others is also included. These encourage the development of reasoning and judgment powers. Supervised student teaching is part of all programs and is required for certification by the State Department of Education. The program length is two to four years.
- Course work for Education programs includes basic teacher preparation courses and further work in each student's chosen area of specialization. Students may specialize in a chosen teaching level such as preschool, elementary or secondary. Specific subject areas may also be selected such as reading, science, mathematics, English or social studies.
- Courses which would be helpful in preparing for Education, programs include English, mathematics, science, typing, social studies, speech and psychology.
- CISI occupations commonly entered by graduates include:
 - 8455 Elementary Teacher
 - 8457 Preschool Teacher
 - 8456 Secondary Teacher
 - 8459 Special Education Teacher
 - 8454 University/College Teacher

- Related military occupations include:

84560 Trainers
84540 Teachers and Instructors

- Twelve Iowa schools have reported programs in Education.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

800 Briar Cliff College - Sioux City:

Education, two years

810 Central College - Pella:

Education, four years

815 Clarke College - Dubuque:

Teacher Education Programs, four years

820 Coe College - Cedar Rapids:

Teacher Education, four years

855 Grandview College - Des Moines:

Education, four years

860 Grinnell College - Grinnell:

Education

Teacher Certification, four years

870 Loras College - Dubuque:

Education, four years

875 Luther College - Decorah:

Education, four years

890 Morningside College - Sioux City:

Education, four years

905 Northwestern College - Orange City:

Education, four years

915 St. Ambrose College - Davenport:

Teacher Education, four years

920 Simpson College - Indianola:

Teacher Education, four years



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EDUCATIONAL MEDIA

CISI NO. 2912

GROUP: 2900's - EDUCATION

- Educational Media Programs intend to cover principles and techniques involved with applying various forms of media to demonstrational and instructional situations. Specialization is possible in education or library. Programs are four year degree programs.
- Course work for Educational Media programs includes:

Communication Theory

Media Utilization Research

Production

- Practical experiences are available as part of the program.
- CISI occupations commonly entered by graduates include:

3171 Media Technician

4734 Photographer

- Related military occupations include:

98009 Audio Visual Production Specialist

- One Iowa school has reported a program in Media.

- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

995 University of Northern Iowa - Cedar Falls

Educational Media, four years

Library Media Specialist, four years





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SPECIAL EDUCATION

CISI NO. 2923

GROUP: 2900's - EDUCATION

- Special Education programs include the study of the theory, methods and techniques of working with special students. Also included are the methods of designing, carrying out and evaluating organized learning activities for special students. Special students are those whose needs require a special curriculum or educational setting. The needs may relate to the educational setting. The needs may relate to the following conditions: physical, emotional, mental, communicative learning disabilities and/or chronically disruptive. Students may study at the elementary or secondary level. The program length varies from three to four years.
- One cooperative program is three years after which students must transfer to complete their degree.
- Course work for Special Education Programs may include:
 - Exceptional Children and Adults
 - Instructional Accommodations of Exceptional Learners
 - Teaching Basic Skills to Exceptional Learners
 - Introduction to Emotional, Mental and Learning Disorders
 - Psychology of Exceptional Children and Adults
 - Physical Education for the Exceptional Student
 - Psychology of Adjustment
 - Mental Retardation

- Students will take a variety of general liberal arts courses as required in any teacher education program. Student teaching, practicums and other field experiences are part of these programs.
- Courses which would be helpful in preparing for Special Education Programs include psychology and sociology.
- CISI occupations commonly entered by graduates include:
 - 8455 Elementary Teacher
 - 8457 Preschool Teacher
 - 8456 Secondary Teacher
 - 8459 Special Education Teacher
- Related military occupations include:
 - 84560 Trainers
 - 84540 Teachers and Instructors
- Five Iowa schools have reported programs in Special Education.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

805 Buena Vista College - Storm Lake:

Special Education, Emotionally Disturbed, four years

890 Morningside College - Sioux City:

Special Education, four years

925 University of Dubuque - Dubuque:

Special Education, four years

993 University of Iowa - Iowa City:

Special Education, four years

995 University of Northern Iowa - Cedar Falls:

Special Education, four years



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JUNIOR HIGH/MIDDLE SCHOOL EDUCATION

CISI NO. 2939

GROUP: 2900's - EDUCATION

- Junior High/Middle School Education Programs include study of the theory, methods and techniques used in organized learning activities at the junior high level. The program length is four years.
- Course work for Junior High/Middle School Education may include:
 - Psychology of Adolescents
 - Reading for Adolescents
 - The Exceptional Child
 - Methods & Materials for the Middle School/Junior High School
- Supervised student teaching is required for certification by the State Department of Education. Practical field experiences is also part of the program. Selected course work allows specialization in a subject area.
- Courses which would be helpful in preparing for Junior High/Middle School Education Programs include general college preparation. Experience in working with adolescents in recreation programs, scouting or church schools would be helpful.
- CISI occupations commonly entered by graduates include:

8455 Elementary Teacher

8456 Secondary Teacher

- Related military occupations include:

84560 Trainers

84540 Teachers and Instructors

- One Iowa school has reported a program in Junior High /Middle School Education.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

995 University of Northern Iowa - Cedar Falls:
Middle School/Junior High School, four years



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TEACHING ENGLISH AS A FOREIGN LANGUAGE

CISI NO. 2964

GROUP: 2900's - EDUCATION

- Teaching English as a Foreign Language Programs include the study of the theory, methods and techniques of teaching students whose native language is not English. Students who wish to teach in Iowa school systems must be certified by the Iowa Department of Education. The program length is four years.

- Course work for Teaching English as a Foreign Language Programs may include:

English
English Writing
Foreign Language
Speech

English Literature
Teaching Methods
Philosophy

- Students will also take general liberal studies courses. Internships and other off-campus experiences are available. Student teaching is required for certification.
- Courses which would be helpful in preparing for Teaching English as a Foreign Language Programs include history, geography, language and literature.
- CISI occupations commonly entered by graduates include:

8449 Child Day Care Worker

8455 Elementary Teacher
8457 Preschool Teacher
8456 Secondary Teacher
8459 Special Education Teacher
8417 Social Worker
8454 University/College Teacher

- Related military occupations include:

84170 Social Workers
84560 Trainers
84540 Teachers and Instructors

- Two Iowa schools have reported programs in Teaching English as a Foreign Language.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

835 Dordt College - Sioux Center

English as a Second Language, four years

995 University of Northern Iowa - Cedar Falls:

Teaching English to Speakers of Other Languages,
four years



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TEACHER ASSISTING

CISI NO. 2965

- **GROUP: 2900's - EDUCATION**

- Teacher Assisting Programs include the theory, methods and techniques used in assisting with the presentation of organized learning activities to students at all levels. The program length is two years.

- Course work for Teacher Assisting Programs may include:

General Psychology
Introduction to Education
Introduction to Physical Education
Child Psychology
Children's Literature
Math for General Education
Education & The Teaching Process
Educational Psychology
Psychology of Growth & Development
Educational Media

- Many graduates of the two-year Teacher Assisting Programs transfer to four-year institutions to continue their education. Practical field experiences may be included in some programs.
- Courses which would be helpful in preparing for Teacher Assisting Programs include psychology, sociology, English, science, mathematics and speech.

- CISI occupations commonly entered by graduates include:

1422 Teacher Aide

- Four Iowa schools have reported programs in Teacher Assisting.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

705 Des Moines Area Community College - Ankeny
Teacher Associate
725 Iowa Central Community College - Fort Dodge:
Educational Aide, two years
745 Kirkwood Community College - Cedar Rapids:
Educational Careers Program, two years

COLLEGES AND UNIVERSITIES

835 Dordt College - Sioux Center: Associate of Arts in:
Special Education Aide (A.A.), two years
Teacher Aide (A.A.), two years



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ENGINEERING

CISI NO. 3001

GROUP: 3000's - ENGINEERING

- Engineering programs include the study of the design, construction, operation and maintenance of buildings and equipment. Specific engineering areas deal with specific industries or materials. The program length varies from three to four years. Three year programs are tied to a specific engineering school (Washington University, St. Louis or University of Iowa, Iowa City). On completing the three year program, students transfer. After completing the five year sequence the students will have received two degrees.
- Students pursuing four year programs often require five years to complete the program
- **SPECIFIC ENGINEERING PROGRAMS IN IOWA:**
 - Aerospace, Aeronautical and Astronautical Engineering involves aircraft, space vehicles and power units. Also included is the flight of air vehicles and the launching, guidance and control of missiles, earth satellites and probes.
 - Agricultural Engineering covers the principles involved in the production of food and fiber
 - Biomedical engineers deal with applications to human systems. This program combines the study of engineering with biology and medicine. Some graduates continue on to medical schools.
- Ceramic Engineering relates to the manufacturing of ceramics. Ceramics include clay, porcelain, china, pottery and related substances.
- Chemical Engineers study the nature of chemical reactions, heat and mass transfer and chemical/physical operations. These programs emphasize the development of new processes and facilities involving chemicals.
- Civil Engineering deals with structures designed for public service. Included are transportation systems (highways), water resources and wastewater systems and pollution control systems.
- Computer Engineering Programs cover the manufacturing of computers and related materials.
- Electrical, Electronics and Communications Engineers study electrical and electronic systems and their components, including electrical and electronic circuits, electromagnetic field and energy sources.
- Engineering Science Programs include the study of the application of engineering principles to areas such as physics, chemistry, biology, mathematics and social studies.
- Industrial Engineering Programs include the study of the organization and management of people, materials and equipment. The purpose of the study is to improve production processes
- Mechanical Engineering Programs cover the design, etc., of production machinery, energy conversion devices and vehicles.

- Nuclear Engineering Programs study construction, etc., of plants and other facilities using nuclear energy

- Course work for Engineering programs may include:

Analysis & Design
Automatic Controls
Biology
Chemical Engineering Design
Chemistry
Computer Programming
Computer Science
Design Principles
Electrical Phenomena

Engineering Analysis
Engineering Design
Engineering Graphics
English
Fluid Mechanics

Humanities
Hydraulic Design
Materials Science
Mathematics
Mechanics of Fluids
Mechanics of Solids
Organization Principles
Physics
Plant Design & Development
Rate & Transfer Processes
Social Sciences
Solid Mechanics
Technical Report Writing
Testing Methodology

- Internships and cooperative experiences are available in most programs. Students may choose to specialize in one particular area of engineering.
- Courses which would be helpful in preparing for Engineering include mathematics, chemistry, physics, English, social studies, mechanical drawing, and computer science.
- CISI occupations commonly entered by graduates include:

2428 Civil Engineer
2672 Construction Inspector
2432 Electrical Engineer
2426 Engineer
2451 Engineering Technician
2434 Industrial Engineer
2436 Mechanical Engineer
2166 Researcher
2425 Safety Engineer

8456 University/College Teacher

- Related military occupations include:

24116 Computer Systems Engineers
24280 Civil Engineers
24111 Aerospace Engineers
24320 Electrical and Electronic Engineers
24117 Marine Engineers
24340 Industrial Engineers
24112 Nuclear Engineers
56009 Space Systems Specialists
84540 Teachers and Instructors

- Ten Iowa schools have reported programs in Engineering.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

820 Coe College - Cedar Rapids

Three-two Engineering, three years

835 Dordt College - Sioux Center

Engineering, four years

850 Graceland College - Lamoni

Computer Engineering, four years

855 Grandview College - Des Moines

Pre-Engineering

991 Iowa State University - Ames

Aerospace Engineering, four years

Agricultural Engineering, four years

Ceramic Engineering, four years

Chemical Engineering, four years

Civil Engineering, four years

Computer Engineering, four years

Construction Engineering, four years

Electrical Engineering, four years



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Engineering Operations, four years

Engineering Science, four years

Industrial Engineering, four years

Mechanical Engineering, four years

Nuclear Engineering, four years

875 Luther College - Decorah: Engineering, three years

880 Maharishi International Univ. - Fairfield:

Electronic Engineering

915 St. Ambrose College - Davenport

Industrial Engineering, four years

920 Simpson College - Indianola

Pre-Engineering, three years

993 University of Iowa - Iowa City

Biomedical Engineering, four years

Chemical Engineering, four years

Civil & Environmental Engineering, four years

Computer Engineering, four years

Electrical Engineering, four years

Engineering, four years

Industrial and Management Engineering, four years

Mechanical Engineering, four years



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ARCHITECTURAL CONSTRUCTION TECHNOLOGY

CISI NO. 3201

GROUP: 3200's - ENGINEERING TECHNOLOGIES

- Architectural Construction Technology Programs intend to prepare individuals to assist architects and other professionals in the planning and designing of buildings with special attention to prefabricated metal buildings. Areas covered include communications, estimating, construction technology and detail drawings. The length of the program is seven quarters or four years.

- Course work for Architectural Construction Technology Programs may include:

Drafting
Mathematics
Construction Materials
Surveying
Intro to Computers

Estimating
Design
Construction Costs
Salesmanship

- A cooperative field experience is included.
- Courses which would be helpful in preparing for Architectural Construction Technology Programs include mathematics, physical science, drafting and industrial arts.
- CISI occupations commonly entered by graduates include:

4286 Construction Worker

1618 Estimator
2364 Drafter
7454 Salesperson

- Related military occupations include:

42860 Combat Engineers
42861 Blasting Specialists
23640 Drafters
24841 Mapping Technicians
16420 Sales and Stock Specialists

- Two Iowa schools have reported programs in Architectural Construction Technology.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

775 Western Iowa Technical Comm. Coll. - Sioux City
Architectural Construction Engineering Technology,
seven quarters

COLLEGES AND UNIVERSITIES

995 University of Northern Iowa - Cedar Falls
Construction Technology, four years



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CIVIL TECHNOLOGY

CISI NO. 3204

GROUP: 3200's - ENGINEERING TECHNOLOGIES

- Civil Technology Programs intend to prepare individuals to assist a civil engineer. Instruction covers design, surveying, materials control, testing, and building various public structures. Public structures include highways, railroads, buildings, dams and airports. The program length is six quarters.

- Course work for Civil Technology Programs may include:

Engineering Problems
Physics
Surveying
Roadway Drafting
Construction Safety
Soils & Foundations

Technical Drafting
Mathematics
Concretes
Photogrammetry
Engineering Materials
Fluid Mechanics

- Courses which would be helpful in preparing for Civil Technology Programs include drafting, physics, algebra, trigonometry and industrial arts.

- CISI occupations commonly entered by graduates include:

2672 Construction Inspector
2364 Drafter
2451 Engineering Technician
1618 Estimator

2693 Laboratory Tester
2421 Surveyor

- Related military occupations include:

23640 Drafters
26931 Fuel and Chemical Lab Technicians
24210 Surveying Managers
24211 Surveying Technicians

- Two Iowa schools have reported programs in Civil Technology.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

715 Hawkeye Institute of Technology - Waterloo:

Civil Engineering Technology, six quarters

740 Iowa Western Community Coll. - Council Bluffs

Civil Engineering and Construction Technology, six quarters



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ELECTRONIC TECHNOLOGY

CISI NO. 3211

GROUP: 3200's - ENGINEERING TECHNOLOGIES

- Electronic Technology Programs intend to prepare persons to support electronic engineers. Work is done in design, development, modification and testing of electronic circuits, devices and systems. The program length varies from six quarters to two years.

- Course work for Electronic Technology Programs may include:

Physics
Computer Logics
Fundamentals of Electricity
DC Fundamentals
Electronic Devices
Electronic Circuits
Test Instruments

Drafting
Equipment Design
AC Fundamentals
Circuit Reading
Electronic Drafting
Mathematics
Microwave

- Courses which would be helpful in preparing for Electronic Technology Programs include English, mathematics, physics, physical sciences, electricity and mechanical drawing.

- CISI occupations commonly entered by graduates include:

5664 Broadcast Technician
3163 Central Office Repairer
2461 Electronics Technician
2451 Engineering Technician

3186 Instrument Technician/Mechanic
2693 Laboratory Tester
3171 Media Technician
3164 Office Machine Servicer
3168 TV/Radio Repairer

- Related military occupations include:

56640 Broadcasting and Recording Technicians
56441 Communications Managers
56009 Space Systems Specialists
56680 Electronic Instrument Repairers
31682 Teletype Repairers
26931 Fuel and Chemical Lab Technicians
98009 Audio Visual Production Specialists
31640 Office Machine Repairers
31651 Data Processing Equipment Repairers
56681 Electronic Weapons Systems Repairer
31681 Radar and Sonar Equipment Repairers
31680 Radio Equipment Repairers

- Fourteen Iowa schools have reported programs in Electronic Technology.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

SPECIALIZED SCHOOLS

- 630 Hamilton Technical College** - Davenport: Electronic
Electronic Engineering Technology, four semesters
- 680 National Education Center** - West Des Moines:
Electronics Engineering Technology, 24 months

AREA SCHOOLS

- 710 Eastern Iowa Community College** - Bettendorf:
Electronics Engineering Tech, two years
Clinton: Electronic Technology, two years
- 715 Hawkeye Institute of Technology** - Waterloo
Electronic Engineering Technology, seven quarters
- 720 Indian Hills Community College** - Ottumwa:
Electronic Technology, 21 months
- 725 Iowa Central Community College** - Fort Dodge:
Electronics Technology, four semesters
- 735 Iowa Valley Community College District** -
Marshalltown: Electronic Technology, two years
- 740 Iowa Western Community Coll.** - Council Bluffs
Electronic Technology, six quarters
Electrinoc Mechanical Technology
- 745 Kirkwood Community College** - Cedar Rapids:
Electronic Engineering Technology, six quarters
- 750 North Iowa Area Community College** - Mason City
Electronics Engineering Technology, four semesters
- 760 Northwest Iowa Technical College** - Sheldon:
Electronics Technician, nine quarters
Electronics Service Technician, nine quarters
Electronics Specialist
- 765 Southwestern Comm. Coll.** - West Burlington/Keokuk
Electronic Technology, two years
- 770 Southwestern Community College** - Creston:
Electronics Technology with Radio &
Television option, two years
- 775 Western Iowa Technical Comm. Coll.** - Sioux City
Audio Recording Technology
Electronic Engineering Technology, six quarters



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LASER-OPTICS TECHNOLOGY

CISI NO. 3212

GROUP: 3200's - ENGINEERING TECHNOLOGIES

- Laser-Optics Technology Programs intend to prepare individuals to maintain, trouble shoot and repair popular types of lasers in industry. The program is two years in length

- Course work for Laser-Optics Technology Programs may include:

Electricity
Digital Circuits
Physics
Light Sources
Laser Applications

Mathematics
Analog Circuits
Geometrical Optics
Wave Optics

- CISI occupations commonly entered by graduates include:

3186 Instrument Technician/Mechanic
2461 Electronics Technician
2451 Engineering Technician
2693 Laboratory Tester
3171 Media Technician
3164 Office Machine Servicer
3168 TV/Radio Repairer

- Related military occupations include:

56640 Broadcasting and Recording Technicians

56441 Communications Managers
56009 Space Systems Specialists
56680 Electronic Instrument Repairers
31682 Teletype Repairers
26931 Fuel and Chemical Lab Technicians
98009 Audio Visual Production Specialists
31640 Office Machine Repairers
31651 Data Processing Equipment Repairers
56681 Electronic Weapons Systems Repairer
31681 Radar and Sonar Equipment Repairers
31680 Radio Equipment Repairers

- One Iowa school has reported a program in Laser-Optics Technology.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

720 Indian Hills Community College - Ottumwa:
Laser/Electro-Optics Technology, 21 months



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BIOMEDICAL EQUIPMENT TECHNOLOGY

CISI NO. 3214

GROUP: 3200's - ENGINEERING TECHNOLOGIES

- Biomedical Equipment Technology Programs intend to prepare individuals to manufacture, install, operate and maintain medical equipment. Included in the program are methods of installation, maintenance, operation and repair of the equipment. The program length is seven quarters.
- Course work for Biomedical Equipment Technology Programs may include:

Vacuum Tube Fundamentals
Electronics Circuits
Semi Conductor Fundamentals
Test Instruments
Pulse & Switching Circuits
Digital Computers
Servo Mechanisms

Mathematics
Drafting
Circuit Design
Computer Science
Integrated Circuits
Medical Terminology

- Course work is presented both in a classroom setting and in an electronics laboratory.
- Courses which would be helpful in preparing for Biomedical Equipment Technology Programs include algebra, physics, geometry, trigonometry and industrial arts.

- CISI occupations commonly entered by graduates include:

2461 Electronics Technician

- Related military occupations include:

56009 Space Systems Specialists
56680 Electronic Instrument Repairers
31682 Teletype Repairers

- Two Iowa schools have reported a program in Biomedical Equipment Technology.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

705 Des Moines Area Community College - Ankeny:
Biomedical Technology

775 Western Iowa Technical Community College -
Sioux City: Biomedical Electronic Engineering, 7 qtrs



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ROBOTICS TECHNOLOGY

CISI NO. 3218

GROUP: 3200's - ENGINEERING TECHNOLOGIES

- Robotics Technology Programs intend to prepare individuals to assist mechanical and electrical engineers. Duties involve the design, development and testing of Robotic devices and systems. The program length is two years.

- Course work for Robotics Technology Programs may include:

Mathematics	Drafting
AC Laboratory	DC Laboratory
Physics	Microcomputers
Materials Laboratory	Solid State Physics
Microcircuits	Industrial Tooling
Computer Programming	Robotics Fundamentals

- Course work is presented both in the classroom and laboratory settings.
- Courses which would be helpful in preparing for Robotics Technology Programs include mathematics, electricity, drafting and communications skills.

- CISI occupations commonly entered by graduates include:

2461 Electronics Technician
2451 Engineering Technician

2375 Industrial Designer
3144 Industrial Maintenance Mechanic
3186 Instrument Technician/Mechanic
2673 Quality Control Technician

- Related military occupations include:

56680 Electronic Instrument Repairers
56681 Electronic Weapons Systems Repair
26730 Non-destructive Testers

- Five Iowa schools have reported programs in Robotics Technology.

- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

705 Des Moines Area Community College - Ankeny

Robotics and Process Control, two years

715 Hawkeye Institute of Technology - Waterloo:

Robotics/Automated Systems Technician, 7 quarters

720 Indian Hills Community College - Ottumwa:

Robotics Automation Technology, 21 months

750 North Iowa Area Community College - Mason City

Automated Systems Technology, two years

760 Northwest Iowa Technical College - Sheldon

Automated Systems/Robotics, eight quarters



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ENVIRONMENTAL CONTROL TECHNOLOGY

CISI NO. 3220

GROUP: 3200's - ENGINEERING TECHNOLOGIES

- Environmental Control Technology Programs intend to prepare students to work in all areas of pollution control. This may be dealing with water, air and/or industrial wastes. Many graduates of two year programs transfer to a four year institution to continue their education. The length of the program is two years.

- Course work for Environmental Control Technology Programs may include:

Ecology
Aquatics
Atmosphere Studies
Water Pollution
Environmental Impact
Statements

Mathematics
Chemistry
Physics
Biology
Economics

- On-the-job training is a part of some programs.
- Courses which would be helpful in preparing for Environmental Control Technology Programs are chemistry, biology, physics and mathematics.
- CISI occupations commonly entered by graduates include:

2451 Engineering Technician

2693 Laboratory Tester
2673 Quality Control Technician
5946 Wastewater Plant Operator

- Related military occupations include:

56009 Space Systems Specialists
56680 Electronic Instrument Repairers
31682 Teletype Repairers
26931 Fuel and Chemical Lab Technicians
26730 Non-Destructive Testers
26731 Survival Equipment Specialists
59460 Water/Sewage Treatment Plant Operators

- Three Iowa schools have reported programs in Environmental Control Technology.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

725 Iowa Central Community College - Fort Dodge:
Environmental Control Technology, two years

730 Iowa Lakes Community College - Estherville:
Environmental Studies, two years

750 North Iowa Area Community College - Mason City:
Climate Control Technology, two years



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SOLAR HEATING AND COOLING TECHNOLOGY

CISI NO. 3223

GROUP: 3200's - ENGINEERING TECHNOLOGIES

- Solar Heating and Cooling Technology Programs intend to prepare individuals to work with heating, cooling and refrigerating engineers and scientists. Technicians work in the areas of research, design, installation and maintenance of solar heating units for factory, home and institutional use. Instruction is also included in heating and air conditioning principles. The length of the program is seven quarters.

- Course work for Solar Heating and Cooling Technology Programs may include:

Refrigeration
Domestic Heating
Domestic Air Conditioning
Fundamentals of Air Flow
Heating & Installation
Computer Programming
Graphics
Solar System Maintenance

Electricity
Electrical Controls
Introduction to Solar
Heating & Cooling
Solar System Analysis
Energy Economics
Solar Feasibility Cost
Analysis

- Courses are presented both in classroom and laboratory settings.
- Courses which would be helpful in preparing for Solar Heating and Cooling Technology Programs include mathematics, physics, machine shop, drafting and sheet metal.

- CISI occupations commonly entered by graduates include:

3146 Heating/Cooling Mechanic

- Related military occupations include:

31460 Heating and Cooling Mechanics

- One Iowa school has reported a program in Solar Heating and Cooling Technology.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

775 Western Iowa Technical Community College -
Sioux City: Solar Systems Technology, 7 quarters



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WATER & WASTEWATER TECHNOLOGY

CISI NO. 3224

GROUP: 3200's - ENGINEERING TECHNOLOGIES

- Water and Wastewater Technology Programs include the study of determining the nature and amounts of bacteria and chemical contaminants in water, wastewater and processed foods. The program length is four quarters.
- Course work for the Water & Wastewater Technology Programs may include:

Sludge Handling & Disposal
Basic Laboratory Skills
Biological Contractors
Environmental Science
Wastewater Treatment
Water Distribution

Water Analysis
Wastewater Analysis
Wells
Water Treatment
Lagoons
Basic Electricity

- On-the-job training experience is included. Laboratory experiences and field trips are provided for hands-on learning.
- Courses which would be helpful in preparing for Water & Wastewater Technology Programs include mathematics, chemistry, physics and biology.
- CISI occupations commonly entered by graduates include:

2693 Laboratory Tester

2673 Quality Control Technician
2674 Sanitarian
5946 Wastewater Plant Operator

- Related military occupations include:

26930 Fuel and Chemical Lab Technicians
26730 Non-Destructive Testers
26731 Survival Equipment Specialists
94822 Environmental Health Specialists
94821 Industrial Hygienists
59460 Water/Sewage Treatment Plant Operators

- One Iowa school has reported a program in Water and Wastewater Technology.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

745 Kirkwood Community College - Cedar Rapids:
Water & Wastewater Technology, four quarters



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INDUSTRIAL TECHNOLOGY

CISI NO. 3228

GROUP: 3200's - ENGINEERING TECHNOLOGIES

- Industrial Technology Programs intend to prepare persons to assist an industrial engineer. The duties include the production, planning, design and installation of integrated systems of materials, equipment and personnel. The program length is four years.
- The curriculum consists of courses in mathematics, physics and chemistry. Students may take general technology courses and in-depth courses in their area of specialization. Areas of specialization may be architectural or mechanical design; construction, mechanical power or electronics technology. Students may also prepare for management positions through business and related courses. Internships may be available.
- Courses which would be helpful in preparing for Industrial Technology Programs include mathematics, physics, chemistry and industrial arts.
- CISI occupations commonly entered by graduates include:

2451 Engineering Technician
2166 Researcher
- Three Iowa schools have reported programs in Industrial Technology.

- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

SPECIALIZED SCHOOLS

- 220 American Institute of Commerce** - Bettendorf
Industrial Technology, four quarters
- 230 American Institute of Commerce** - Cedar Falls:
Industrial Technology, four quarters

COLLEGES AND UNIVERSITIES

- 995 University of Northern Iowa** - Cedar Falls:
Energy and Power Technology, four years
Manufacturing Technology, four years



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LABORATORY TECHNOLOGY

CISI NO. 3236

GROUP: 3200's - ENGINEERING TECHNOLOGIES

- Laboratory Technology Programs intend to prepare individuals to support and assist various scientists and engineers. Programs stress specialized, practical knowledge related to mechanical, mathematical, scientific or technical aspects of various biological, physical and nuclear sciences. Program length is three quarters or two years.
- Course work for Laboratory Technology Programs may include:

Fundamentals of Chemistry
Analytical Instrumentation
Environmental Biology
Introductory Statistics
Government Regulations

Waste Management
Microbiology
Zoology
Botany

- Courses which would be helpful in preparing for Laboratory Technology Programs include biology and chemistry.
- CISI occupations commonly entered by graduates include:

2451 Engineering Technician
2693 Laboratory Tester
2673 Quality Control Technician
5946 Wastewater Plant Operator

- Related military occupations include:

26930 Fuel and Chemical Lab Technicians
26730 Non-Destructive Testers
26731 Survival Equipment Specialists
59460 Water/Sewage Treatment Plant Operators

- Two Iowa schools have reported programs in Laboratory Technology.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

710 Eastern Iowa Area Community College - Bettendorf:

Hazardous Materials Technology, two years

735 Iowa Valley Community College - Iowa Falls

Laboratory Technology in Industry, two years



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AUTOMOTIVE SERVICE TECHNOLOGY

CISI NO. 3242

GROUP: 3200's - ENGINEERING TECHNOLOGIES

- Automotive Service Technology Programs intend to prepare persons to manage service oriented businesses/operations. On-the-job training is part of the three quarter program.

- Course work for Automotive Service Technology Programs may include:

Economics	Salesmanship
Communications	Principles of Supervision
Business Management	Business Law
Merchandising	Computers
Advertising	Accounting

- Course work is presented in classrooms, laboratories and shop settings.

- CISI occupations commonly entered by graduates include:

3112 Auto Mechanic

- Related military occupations include:

31220 Automobile Mechanics

- Seven Iowa school has reported a program in Automotive Service Technology.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

710 Eastern Iowa Community College - Muscatine:

Automotive Technology

715 Hawkeye Institute of Technology - Waterloo

Automotive Electronics Technician, seven quarters

720 Indian Hills Community College - Ottumwa:

Automotive Technology

740 Iowa Western Community Coll. - Council Bluffs

Automotive Technology, six quarters

770 Southwestern Community College - Creston:

Automotive Technology

760 Northwest Iowa Technical College - Sheldon:

Service Manager, six quarters

775 Western Iowa Technical Community College - Sioux City

Automotive Technology, two years



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MECHANICAL DESIGN TECHNOLOGY

CISI NO. 3244

GROUP: 3200's - ENGINEERING TECHNOLOGIES

- Mechanical Design Technology Programs intend to assist engineers. The duties include the designing, producing, and testing of machines and processes. Graduates of this program work with machines, mechanisms, jigs, dies, components, units or systems of machines. Some programs place a greater emphasis on drafting. The length of the programs varies from six quarters to two years.
- Course work for Mechanical Design Technology Programs may include:

Mathematics	Meteorology
Drafting	Materials & Machines
Jig & Fixture Design	Strength of Materials
Machine Elements	Die Design
Fluid Circuits	Communications Skills
Manufacturing Processes	Prototype Development
Human Relations	Quality Control
Physics	
- Course work is presented in classrooms, laboratories and shop settings.
- Courses which would be helpful in preparing for Mechanical Design Technology Programs include electricity, machine shop, mathematics, drafting and physics.

- CISI occupations commonly entered by graduates include:

2672 Construction Inspector
2364 Drafter
2451 Engineering Technician
1618 Estimator
2375 Industrial Designer
1154 Production Supervisor
2673 Quality Control Technician

- Related military occupations include:

23640 Drafters
26730 Non-Destructive Testers
26731 Survival Equipment Specialists

- Nine Iowa schools have reported programs in Mechanical Design Technology.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

- 715 Hawkeye Institute of Technology** - Waterloo:
Mechanical Engineering Technology, six quarters
Drafting & Design Technology, seven quarters
- 735 Iowa Valley Community College** - Marshalltown
Drafting & Design Technology, two years

740 Iowa Western Community Coll. - Council Bluffs

Mechanical Technology, two years

745 Kirkwood Community College - Cedar Rapids:

Mechanical Design Technology, six quarters

750 North Iowa Area Community College - Mason City

Mechanical Design Technology (Computer Aided),
four semesters

755 Northeast Iowa Technical College - Peosta:

Mechanical Technology, seven quarters

760 Northwest Iowa Technical College - Sheldon:

Mechanical Engineering Technology, eight quarters

765 Southeastern Community Coll. - West Burlington

Mechanical Technology, four semesters

775 Western Iowa Technical Comm. Coll. - Sioux City

Mechanical Engineering Technology, six quarters



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FOREIGN LANGUAGES

CISI NO. 3301

GROUP: 3300's - FOREIGN LANGUAGES

- Foreign Languages Programs include the study of the language, literature and culture of a group of people. Programs are all four years in length. Graduates often continue on to graduate school. Students often seek a second major. They use the second major to find employment in a foreign country or a company which deals with foreign countries. Some graduates enter government foreign service.

- Foreign Languages Programs reported by Iowa schools are:

French
German
Greek
Italian
Latin

Portuguese
Russian
Scandinavian
Spanish

- Major course work for a Foreign Language Program is often conducted in that language. Courses may include:

Conversation
Composition
Culture
Grammar

Reading
Literature
History

- Students may specialize in one particular language or study several languages. Periods of study in foreign countries are available and encouraged.

- Courses which would be helpful in preparing for Foreign Languages Programs include English and foreign languages.

- CISI occupations commonly entered by graduates include:

8455 Elementary Teacher
8456 Secondary Teacher
1424 Travel Agent
8454 University/College Teacher

- Related military occupations include:

84560 Trainers
84540 Teachers and Instructors
14240 Transportation Specialists

- Twenty Iowa schools have reported programs in Foreign Languages.

- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

- GREEK

820 Coe College - Cedar Rapids: Foreign Languages

890 Morningside College - Sioux City: Greek

- ITALIAN

890 Morningside College - Sioux City: Italian

993 University of Iowa - Iowa City: Italian

- LATIN

820 Coe College - Cedar Rapids: Foreign Languages

- PORTUGUESE

993 University of Iowa - Iowa City: Portuguese

- SCANDINAVIAN

835 Dordt College - Sioux Center: Dutch

875 Luther College - Decorah: Modern Languages

- FRENCH

810 Central College - Pella: Foreign Languages

815 Clarke College - Dubuque: French, four years

820 Coe College - Cedar Rapids: Foreign Languages

840 Drake University - Des Moines: Foreign Language

850 Graceland College - Lamoni: French

860 Grinnell College - Grinnell: French

991 Iowa State University - Ames: Foreign Lang and Lit

870 Loras College - Dubuque: Modern Foreign Languages

875 Luther College - Decorah: Modern Languages

890 Morningside College - Sioux City: French

905 Northwestern College - Orange City: Languages

915 St. Ambrose College - Davenport: Modern Languages

920 Simpson College - Indianola: Foreign Languages

993 University of Iowa - Iowa City: French

995 University of Northern Iowa - Cedar Falls: French

950 Wartburg College - Waverly: Foreign Languages

- GERMAN

810 Central College - Pella: Foreign Languages

820 Coe College - Cedar Rapids: Foreign Languages

835 Dordt College - Sioux Center: German

840 Drake University - Des Moines: Foreign Languages

850 Graceland College - Lamoni: German

860 Grinnell College - Grinnell: German

991 Iowa State University - Ames: Foreign Lang & Lit

870 Loras College - Dubuque: Modern Foreign Languages

875 Luther College - Decorah: Modern Languages

890 Morningside College - Sioux City: German

915 St. Ambrose College - Davenport: Modern Languages

920 Simpson College - Indianola: Foreign Languages

993 University of Iowa - Iowa City: German

995 University of Northern Iowa - Cedar Falls: German,

950 Wartburg College - Waverly: Foreign Languages

960 Westmar College - Le Mars: Modern Languages

- RUSSIAN

860 Grinnell College - Grinnell: Russian

991 Iowa State University - Ames: Foreign Lang & Lit

890 Morningside College - Sioux City: Russian

915 St. Ambrose College - Davenport: Modern Languages,

993 University of Iowa - Iowa City: Russian

- SPANISH

805 Buena Vista College - Storm Lake: Spanish

810 Central College - Pella: Foreign Languages

815 Clarke College - Dubuque: Spanish

820 Coe College - Cedar Rapids: Foreign Languages

835 Dordt College - Sioux Center: Spanish

840 Drake University - Des Moines: Foreign Language,

850 Graceland College - Lamoni: Spanish

860 Grinnell College - Grinnell: Spanish

991 Iowa State University - Ames: Foreign Lang & Lit

870 Loras College - Dubuque: Modern Foreign Languages,

875 Luther College - Decorah: Modern Languages

890 Morningside College - Sioux City: Spanish

905 Northwestern College - Orange City: Languages

915 St. Ambrose College - Davenport: Modern Languages

920 Simpson College - Indianola: Foreign Languages

925 University of Dubuque - Dubuque: Modern Foreign Lan

993 University of Iowa - Iowa City: Spanish

995 University of Northern Iowa - Cedar Falls: Spanish

950 Wartburg College - Waverly: Foreign Languages



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DENTAL ASSISTING

CISI NO. 3501

GROUP: 3500's - ALLIED HEALTH

- Dental Assisting Programs intend to prepare individuals to assist the dentist at chair side. The duties also include clerical functions and selected dental laboratory procedures. The length varies from six months to three years. The shorter program emphasizes in-service training for practicing dental assistance.

- Course work for Dental Assisting Programs may include:

Dental Office Procedures	Typing
Dental Anatomy	Accounting
Dental Laboratory Procedures	Records Management
Chair Side Assistance	Radiology
Dental Assisting	Dental Materials
Microbiology	Psychology
Pre-clinical Science	

- Practical experience in a dental office is included in most programs.
- Courses which would be helpful in preparing for Dental Assisting Programs include biology, psychology, typing, mathematics, anatomy and chemistry.
- CISI occupations commonly entered by graduates include:

8176 Dental Assistant

8156 Medical Assistant

- Related military occupations include:

81760 Dental Assistants

- Nine Iowa schools have reported programs in Dental Assisting.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

705 Des Moines Area Community College - Ankeny:
Dental Assistant, three terms

710 Eastern Iowa Community College
Bettendorf: Dental Assisting, 38 hrs
Muscatine: Dental Assisting, 38 hrs

715 Hawkeye Institute of Technology - Waterloo:
Dental Assistant, four quarters

725 Iowa Central Community College - Fort Dodge:
Dental Assistant Education, one year

735 Iowa Valley Community College - Marshalltown
Dental Assisting, one year

740 Iowa Western Community Coll. - Council Bluffs
Dental Assistant, four quarters

745 Kirkwood Community College - Cedar Rapids:
Dental Assisting Technology, six months or three yrs

755 Northeast Iowa Technical Institute - Peosta:

Dental Assisting, four quarters

775 Western Iowa Technical Comm. Coll. - Sioux City

Dental Assistant, four quarters



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DENTAL HYGIENE

CISI NO. 3502

GROUP: 3500's - ALLIED HEALTH

- Dental Hygiene Programs intend to prepare individuals to provide chair side services to patients. Those services may include the cleaning and polishing of teeth, application of medication and/or development of x-rays. Dental hygienists may also provide dental health education services. Programs vary from five terms to four years. Many persons who complete the two-year programs transfer to a four-year institution to complete a Bachelor's degree.

- Course work for Dental Hygiene Programs may include:

Oral Histology
Tooth Morphology
Chair Side Dental Hygiene
Oral Radiology
Anatomy and Physiology
Periodontology
Nutrition

Dental Materials
Oral Pathology
Psychology
Pharmacology
Dental Health
Microbiology

- Practical experiences in dental offices are included in most programs.
- Courses which would be helpful in preparing for Dental Hygiene Programs include chemistry, biology, mathematics and English.

- CISI occupations commonly entered by graduates include:

8176 Dental Assistant
8174 Dental Hygienist
2655 Dental Lab Technician

- Related military occupations include:

81760 Dental Assistants
26550 Dental Laboratory Technicians

- Three Iowa schools have reported programs in Dental Hygiene.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

705 Des Moines Area Community College - Ankeny:

Dental Hygiene, five terms

715 Hawkeye Institute of Technology - Waterloo:

Dental Hygiene, two years

COLLEGES AND UNIVERSITIES

993 University of Iowa - Iowa City

Dental Hygiene, four years



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DENTAL LABORATORY TECHNOLOGY

CISI NO. 3503

GROUP: 3500's - ALLIED HEALTH

- Dental Laboratory Technology Programs prepare individuals to make and repair dental appliances as prescribed by a dentist. The program length is eight quarters.
- Course work for the Dental Laboratory Technology programs may include:

Dental Terminology
Dental Equipment
Oral Anatomy
Denture Techniques
Partial Denture Techniques
Jackets, Crowns and Veneers
Dentures
Orthodontics

Articulators
Cast Inlay and Crown
Crown and Bridge
Precision Attachment
Partials
Cast Metal Base
Porcelain Techniques

- A clinical laboratory experience is a portion of the program.
- Courses which would be helpful in preparing for Dental Laboratory Technology Programs include art, chemistry, communications, mathematics and psychology.
- CISI occupations commonly entered by graduates include:

8174 Dental Hygiene

2655 Dental Lab Technician
2659 Medical Lab Assistant

- Related military occupations include:

26550 Dental Laboratory Technicians
26520 Medical Laboratory Technicians

- One Iowa school has reported a program in Dental Laboratory Technology.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

745 Kirkwood Community College - Cedar Rapids:
Dental Laboratory Technology, eight quarters



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ENCEPHALOGRAPHIC TECHNOLOGY

CISI NO. 3508

GROUP: 3500's - ALLIED HEALTH

- Encephalographic Technology Programs intend to prepare individuals to operate and maintain the encephalograph. This machine measures electrical impulses from the brain and records them for physicians' use in diagnosing brain disorders. Usually included is training in making minor repairs to the machine. Methods of dealing with patients is also included. The program length is six quarters.
- Course work for the Encephalographic Technology may include:

Mathematics	Clinical Laboratory
Electronics	Instrumentation
Anatomy and Physiology	Psychology
Emergency First Aid	Neurology
- Courses which would be helpful in preparing for the Encephalographic Technology Programs includes English, speech, algebra, social science, biology, chemistry, and physics.
- CISI occupations commonly entered by graduates include:

2666 E.K.G./E.E.G. Technician
- Related military occupations include:

26660 Cardiopulmonary and E.E.G. Technicians

- One Iowa school has reported a program in Encephalographic Technology.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

745 Kirkwood Community College - Cedar Rapids:
Electroencephalographic Technology, six quarters



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EMERGENCY MEDICAL TECHNOLOGY

CISI NO. 3510

GROUP: 3500's - ALLIED HEALTH

- Emergency Medical Technology Programs intend to prepare individuals to provide pre-hospital emergency medical care to patients. They include knowledge about symptoms so that the proper treatment may be provided. Problems students are prepared to handle include:

Heart Attack
Airway Blockage
Childbirth
Contagious Disease
Burns

Fractures
Lacerations
Radiation
Exposure

- Student learn techniques for administration of intravenous fluids, pharmacology and anesthetics.
- Course work for the Emergency Medical Technology Programs may include:

Ambulance Techniques
Computers
Mathematics
Psychology

Clinical
English
Medical Terminology
Anatomy

- Courses which would be helpful in preparing for the Encephalographic Technology Programs includes English, science, psychology and computer operation.

- CISI occupations commonly entered by graduates include:

8168 Emergency Medical Technician

- Related military occupations include:

81680 Medical Service Technicians

- Two Iowa schools have reported a program in Emergency Medical Technology.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

710 Eastern Iowa Community College - Muscatine:

E.M.S. Management

765 Southeastern Community College -

West Burlington: Emergency Medical Technician

Keokuk: Emergency Medical Technician



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SURGICAL TECHNOLOGY

CISI NO. 3515

GROUP: 3500's - ALLIED HEALTH

- Surgical Technology Programs intend to prepare individuals to serve as general technical assistants to surgeons. The program includes the procedures used before, during and after operations. The program length is one year.
- Course work for Surgical Technology Programs may include:

Anatomy
Physiology
Microbiology
Operating Room Techniques
Emergency Care
Physical Therapy

Medical Technology
Pharmacology
Surgical Techniques
Anesthesia
Obstetrics
First Aid Procedures

- Practical operating room experience is included in most programs.
- Courses which would be helpful in preparing for Surgical Technology Programs include algebra, biology, physics, mathematics, anatomy and psychology.
- CISI occupations commonly entered by graduates include:

2664 Orthopedic Appliance Technician
8155 Surgical Technician

- Related military occupations include:

26640 Orthotic Specialists
81550 Operating Room Technicians

- Two Iowa schools have reported programs in Surgical Technology.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

735 Iowa Valley Community College - Marshalltown
Surgical Technician, O.R.T., 11 months

775 Western Iowa Technical Comm. Coll. - Sioux City
Surgical Technician, four quarters



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MEDICAL LABORATORY TECHNOLOGY

CISI NO. 3526

GROUP: 3500's - ALLIED HEALTH

- Medical Laboratory Technology Programs intend to prepare individuals to perform bacteria, biological and chemical tests. Tests are performed under the supervision of pathologists. Programs are one or two years in length. Longer programs stress a greater degree of working independently. Many students who complete these programs transfer to a four-year school to complete a Bachelor's degree.
- Course work for Medical Laboratory Technology Programs may include:

Mathematics
Chemistry
Drawing Blood
Preparation of Solutions
Physiology
Parasitology

Hematology
Serology
Blood Banking
Anatomy
Bacteriology
Urinalysis

- Practical hospital experiences are included in some programs.
- Courses which would be helpful in preparing for Medical Laboratory Technology Programs include biology, chemistry, English and algebra.
- CISI occupations commonly entered by graduates include:

2662 Histologic Technician

2659 Medical Lab Assistant
2652 Medical Technologist

- Related military occupations include:

26520 Medical Laboratory Technicians

- Three Iowa schools have reported programs in Medical Laboratory Technology.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

705 Des Moines Area Community College - Ankeny:

Medical Laboratory Technician, six terms

710 Eastern Iowa Community College - Bettendorf

Medical Laboratory Technician, one or two years

715 Hawkeye Institute of Technology - Waterloo:

Medical Laboratory Assistant, two years



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MEDICAL TECHNOLOGY

CISI NO. 3527

GROUP: 3500's - ALLIED HEALTH

- Medical Technology Programs intend to prepare individuals to be a skilled laboratory scientist specializing in medical work. The program includes the study of performing complex and specialized procedures in all major areas of the clinical laboratory. Two levels of education are involved in completing Medical Technology Training. Students must complete at least three years of college training in the sciences. They then transfer to an approved hospital school of Medical Technology to complete their training. Upon completion of an internship at the hospital school, students are awarded a degree from their first school if they have not already received it. Programs are one to four years in length.

- Course work for the first three years of Medical Technology Programs may include:

Biology	Microbiology
Physiology	Chemistry
Organic Chemistry	Biochemistry
Statistics	Physics

- Course work for the year of internship at a hospital school may include hematology, urinalysis, clinical microscopy, immunology/serology, immunohematology, clinical chemistry, microbiology, biochemistry, radioisotopes and coagulation.

- Courses which would be helpful in preparing for Medical Technology Programs include biology, chemistry, mathematics, physics and English.

- CISI occupations commonly entered by graduates include:

2652 Medical Technologist
2663 Nuclear Medical Technologist
8454 University/College Teacher

- Related military occupations include:

26520 Medical Laboratory Technicians
84540 Teachers and Instructors

- Eighteen Iowa schools have reported programs in Medical Technology.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

SPECIALIZED SCHOOLS

535 Consolidated Regional Laboratories - Waterloo
Medical Technology, 12 months

540 Marian Health Center - Sioux City
Medical Technology, 12 months

545 Mercy School of Medical Technology - Des Moines:
Medical Technology, 12 months

550 St. Luke's Regional Medical Center - Sioux City

Medical Technology, 12 months

555 St. Luke's Methodist Hospital - Cedar Rapids

School of Medical Technology

Medical Technology, 12 months

COLLEGES AND UNIVERSITIES

800 Briar Cliff College - Sioux City

Medical Technology, three years

815 Clarke College - Dubuque

Medical Technology, three years

835 Dordt College - Sioux Center

Medical Technology, three years

840 Drake University - Des Moines

Medical Technology, three years

850 Graceland College - Lamoni

Medical Technology, three years

865 Iowa Wesleyan College - Mount Pleasant

Medical Technology, three years

895 Mount Mercy College - Cedar Rapids:

Medical Technology, four years

905 Northwestern College - Orange City:

Medical Technology, three years

920 Simpson College - Indianola

Medical Technology Program, three years

993 University of Iowa - Iowa City

Medical Technology, three years

995 University of Northern Iowa - Cedar Falls

Medical Technology, three years

950 Wartburg College of Liberal Arts & Sciences - Waverly:

Medical Technology, three years

960 Westmar College - Le Mars

Medical Technology, three years



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SIGN LANGUAGE INTERPRETING

CISI NO. 3538

GROUP: 3500's - ALLIED HEALTH

- Sign Language Interpreting Programs includes the study of the theory, methods and techniques of presenting learning activities to students who have hearing impairments which effect their educational performance. The length of the program is six quarters.
- Course work for Interpreter for Sign Language Interpreting may include:

Sign Language
Conversational Signing
Pantomime Laboratory
Psychology of Deafness

Special Situations
Basic Audiology
Sign Language Forms
Intro to Deafness

- Graduates will develop skills in signing and interpreting for meetings, classes, job interviews and in other situations.
- Courses which would be helpful in preparing for Sign Language Interpreting Programs include biology, psychology, mathematics and chemistry.
- CISI occupations commonly entered by graduates include:

8455 Elementary Teacher
8456 Secondary Teacher
8459 Special Education Teacher

- Related military occupations include:

84540 Teachers and Instructors
84560 Trainers

- One Iowa school has reported a program in Sign Language Interpreting.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

740 Iowa Western Community Coll. - Council Bluffs
Sign Language Interpreting, six quarters



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CENTRAL SUPPLY TECHNOLOGY

CISI NO. 3540

GROUP: 3500's - ALLIED HEALTH

- Central Supply Technology is an instructional program that prepares individuals for positions in central processing/ central service departments of hospitals or related health care facilities. The Central Supplies Technician is responsible for processing, cleaning (including sterilization), storing, and distribution of supplies and equipment, as well as inventory control, effective communications, computer literacy, and human relations. The length of the program is thirty-six weeks.
- Course work for Central Supply Technology may include:

Biological Concepts	Medical Terminology
Communications Skills	Central Processing I and II
Data Processing	Job Seeking Skills
Human Relations	
- Practicum and Clinical Practice is included as a part of the program to provide learning experiences in a work setting.
- Courses which would be helpful in preparing for Central Supply Technology include: biology, health, mathematics communications skills.

- CISI occupations commonly entered by graduates include:

2665 Hospital Supply Technician

- One Iowa school reported offering Central Supply Technology
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOL(S)

775 Western Iowa Technical Community College - Council Bluffs
Central Processing Technology, 36 weeks



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MEDICAL ASSISTING

CISI NO. 3541

GROUP: 3500's - ALLIED HEALTH

- Medical Assisting Programs intend to prepare individuals to assist a physician. Medical assistants perform both business administration and clinical duties in a medical office. Business Administration duties include accounts, reports and medical transcription. The clinical duties include preparation of the patient for examination and routine laboratory procedures. The program length is four quarters.

- Course work for Medical Assisting Programs may include:

Medical Terminology
Clinical Procedures
Office Machines
Record Keeping
Laboratory Orientation
Medical Law
Anatomy & Physiology

Medical Office Practices
Human Relations
English
Bookkeeping
Typing
Pharmacology
First Aid

- Practical experience in a medical office or clinic is included in all programs.
- Courses which would be helpful in preparing for Medical Assisting Programs include typing, biology, bookkeeping, secretarial procedures and English.

- CISI occupations commonly entered by graduates include:

8156 Medical Assistant
1446 Medical Secretary
1411 Office Manager
1436 Ward Clerk

- Related military occupations include:

14420 Secretaries and Stenographers

- Eight Iowa schools have reported programs in Medical Assisting.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

SPECIALIZED SCHOOLS

220 American Institute of Commerce - Bettendorf:
Medical Assisting, four quarters

AREA SCHOOLS

725 Iowa Central Community College - Fort Dodge:
Medical Assistant Education, 11 months

735 Iowa Valley Community College - Marshalltown
Medical Assistant, 11 months

740 Iowa Western Community Coll. - Council Bluffs

Medical Assistant, four quarters

745 Kirkwood Community College - Cedar Rapids:

Medical Assisting, four quarters or two years

750 North Iowa Community College - Mason City:

Medical Assistant - Clinical, 11 months

765 Southeastern Community Coll. - West Burlington

Medical Assistant, two sems plus one summer term



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MEDICAL RECORDS TECHNOLOGY

CISI NO. 3544

GROUP: 3500's - ALLIED HEALTH

- Medical Records Technology Programs intend to prepare individuals to develop medical reports and records. The duties include supervising the activities of medical records clerks and handling requests for medical information. Programs intend to prepare students to take the National Accreditation Examination for medical records science. The length of the program varies from 18 months to two years.
- Course work for Medical Records Technology Programs may include professional medical records courses with liberal arts courses. Practical office experiences are an integral part of the program.
- Courses which would be helpful in preparing for Medical Records Technology Programs include typing, business, biology and physiology.
- CISI occupations commonly entered by graduates include:
1431 Medical Records Technician
- Related military occupations include:
14310 Medical Records Technicians
- Three Iowa schools have reported programs in Medical Records Technology.

- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

- 720 Indian Hills Community College** - Ottumwa
Medical Records Technology, 18 months
- 745 Kirkwood Community College** - Cedar Rapids:
Medical Records Technology, six terms
- 755 Northeast Iowa Technical Institute** - Calmar
Medical Records Transcribing, 36 wks
Medical Records Technology, 72 wks



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PHYSICIAN ASSISTING -PRIMARY CARE

CISI NO. 3546

GROUP: 3500's - ALLIED HEALTH

- Physician Assisting Programs intend to prepare individuals to work under a physician's direction in the areas of general medical practice. Included in the program is family medicine, internal medicine, obstetrics and emergency medicine. Iowa programs include one complete four year, and one which offers the upper two years only.

- Course work for the Physician Assisting Programs may include:

General Biology
General Chemistry
Organic Chemistry
Microbiology
Anatomy and Physiology

- Students will also take general liberal arts courses.
- Courses which would be helpful in preparing for Physician Assisting Programs include chemistry, biology, mathematics and physics.
- CISI occupations commonly entered by graduates include:

8121 Physician Assistant

- Related military occupations include:

81211 Orthopedic Technicians
81210 Physicians Assistants

- Two Iowa schools have reported programs in Physician Assisting/Primary Care.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

- 930 University of Osteopathic Medicine and Health Sciences -**
Des Moines: Coll of Biological Sciences, 2 years(upper 2)
- 993 University of Iowa - Iowa City**
Physician Assistant, four years



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CHIROPRACTIC ASSISTING

CISI NO. 3550

GROUP: 3500's - ALLIED HEALTH

- Chiropractic Assisting Programs intend to prepare individuals to work under a chiropractor's direction. Basic areas of study are basic sciences, clinical, sciences, philosophy and professional development, office and financial management, and X-ray. The program is one year in length.
- Course work for the Chiropractic Assisting Program includes:

Blood Analysis	CPR
Physical Examinations	Psychology
Office Mnanagement	Chemistry
Physics	
- Courses which would be helpful in preparing for Chiropractic Assisting Programs include accounting bookkeeping, anatomy, physiology and communication skills
- CISI occupations commonly entered by graduates include:

No CISI occupations are related to this program.
- One Iowa school has reported a programs in Chiropractic Assisting.

- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

910 Palmer College of Chiropractic - Davenport
Certified Chiropractic Technician, one year



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NURSING ASSISTING

CISI NO. 3554

GROUP: 3500's - ALLIED HEALTH

- Nursing Assisting Programs intend to prepare individuals to perform routine tasks under the supervision of a registered or licensed practical nurse. The length of the program is 120 hours.
- Course work for the Nursing Assisting Program includes: The Job of a Nurse Aide/Orderly Advanced Patient Care Special Patient Groups Patients Requiring Special Care Basic Patient Care
- Courses are divided equally between classroom instruction and practical clinical experience.
- Courses which would be helpful in preparing for Nursing Assisting Programs include science and English.
- CISI occupations commonly entered by graduates include:
8166 Nurse Aide/Orderly
- Related military occupations include:
81660 Nursing Technicians
- Three Iowa schools have reported programs in Nursing Assisting.

- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

SPECIALIZED SCHOOLS

620 Job Corps - Denison: Nurse Aide, eight months

AREA SCHOOLS

705 Des Moines Area Community College - Ankeny:

Medical Assistant, three terms or two years

715 Hawkeye Institute of Technology - Waterloo:

Nurse Aide/Orderly, 120 hours



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MUSIC THERAPY

CISI NO. 3572

GROUP: 3500's - ALLIED HEALTH

- Music Therapy Programs intend to prepare individuals to use musical activities with mentally and physically ill patients. These activities are designed to accomplish therapy, to create an environment lending to treatment and to influence behavior. The program length is four years.
- Course work for Music Therapy Programs may include:
 - Human Biology
 - Abnormal Psychology
 - General Psychology
 - Social Psychology
 - Psychology of Exceptional Children
 - Sociology
- Students will also complete general requirements for a music degree.
- Courses which would be helpful in preparing for Music Therapy Programs include biology, psychology and music.
- CISI occupations commonly entered by graduates include:
 - No CISI occupations reported.
- Two Iowa schools have reported programs in Music Therapy.

- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

- 993 University of Iowa** - Iowa City
Music Therapy, four years
- 950 Wartburg College** - Waverly:
Music Therapy, four years



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OCCUPATIONAL THERAPY

CISI NO. 3573

GROUP: 3500's - ALLIED HEALTH

- Occupational Therapy Programs intend to prepare individuals to use the principles and techniques of therapy and patients. This type of therapy can serve several purposes. It may be used to offer mental diversion, to give vocational training or often to exercise an affected part of the body. The program offered in Iowa is cooperative with Washington University. After three years of preparatory work students transfer for two additional years of clinical training. The length of the program is five years.
- Course work for the Occupational Therapy Program may include:

Anatomy	Psychology
Physiology	Patient Care
Chemistry	Therapeutic Techniques
Physics	
- Courses which would be helpful in preparing for the Occupational Therapy Program includes biology, chemistry, physics and mathematics.
- CISI occupations commonly entered by graduates include:

8125 Occupational Therapist
8152 Occupational Therapy Aide

- Related military occupations include:

81250 Occupational Therapists
81520 Occupational Therapy Specialists

- Two Iowa school has reported a program in Occupational Therapy.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

915 Saint Ambrose College - Davenport
Occupational Therapy, four years
950 Wartburg College - Waverly
Occupational Therapy, five years



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OCCUPATIONAL THERAPY ASSISTING

CISI NO. 3574

GROUP: 3500's - ALLIED HEALTH

- Occupational Therapy Assisting Programs intend to prepare individuals to assist an occupational therapist. Duties will involve performing therapy with a patient as pre-scribed by a physician. Certification by the American Occupational Therapy Association is required for employment. The program length is seven quarters.
- Course work for the Occupational Therapy Assisting Program includes:

Basic Anatomy and Physiology
Therapeutic Techniques
Introduction to Health Care
Medical Communication
CPR-First Aid

General Psychology
Functional Anatomy
Developmental Processes
Major Crafts

- Off-campus field work in health care facilities is included in the program.
- Courses which would be helpful in preparing for Occupational Therapy Assisting Programs include science, psychology and English.
- CISI occupations commonly entered by graduates include:

8152 Occupational Therapy Aide

- Related military occupations include:

81520 Occupational Therapy Specialists

- Two Iowa school has reported a program in Occupational Therapy Assisting.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

745 Kirkwood Community College - Cedar Rapids
Occupational Therapy Assisting Technology, seven
quarters

COLLEGES AND UNIVERSITIES

960 Western College - Lemars
Manual Arts Therapy - four years



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ORTHOPEDIC ASSISTING

CISI NO. 3578

GROUP: 3500's - ALLIED HEALTH

- Orthopedic Assisting Programs intend to prepare individuals to assist a physician in applying, adjusting and removing casts; assembling traction apparatus; fitting straps and splints, assembling exercise frames and fitting canes and crutches. Training often includes instructing patients in use of devices. The program length is six quarters
- Course work for Orthopedic Assisting Programs may include:

Anatomy & Physiology	Emergency Care
Microbiology	Immobilization
Operating Room Techniques	Physical Therapy
Office Procedures	English & Speech
- Supervised clinical experiences are included as part of the program.
- Courses which would be helpful in preparing for Orthopedic Assisting Programs include algebra, biology, chemistry, physics, geometry, anatomy, social science and sociology.
- CISI occupations commonly entered by graduates include:

8155 Surgical Technician

- Related military occupations include:

81550 Operating Room Technicians

- One Iowa school has reported a program in Orthopedic Assisting.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

745 Kirkwood Community College - Cedar Rapids:
Orthopedic Physician Assisting Technology,
six quarters



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PHYSICAL THERAPY

CISI NO. 3579

GROUP: 3500's - ALLIED HEALTH

- Physical Therapy Programs include the study of the principles and techniques of treating disease, bodily weakness or physical defects by physical remedies. Physical remedies may include massage and gymnastics. The program length are five years.
- Students preparing for a Physical Therapy Program will take a pre-physical therapy curriculum at any of Iowa's colleges and universities. After three years students may transfer to a recognized physical therapy school. Upon completion of two years work at the physical therapy school, students will be eligible for licensure as physical therapists. After completion of one year at a physical therapy school, students may receive a degree from their first school. Some students choose to complete four years at their first school before transferring to a physical therapy school. These students are still required to complete two years' work at the physical therapy school to be eligible for licensure.
- Courses which would be helpful in preparing for Physical Therapy Programs include mathematics, chemistry, physics and biology.
- CISI occupations commonly entered by graduates include:

8127 Physical Therapist

- Related military occupations include:

81270 Physical Therapists

- Five Iowa schools have a program in Physical Therapy
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

865 Iowa Wesleyan College - Mount Pleasant

Physical Therapy

993 University of Iowa - Iowa City

Exercise Science

Physical Therapy Education, final two years

995 University of Northern Iowa - Waterloo

Physical Therapy

950 Wartburg College - Waverly

Physical Therapy

960 Westmar College - Le Mars

Physical Therapy



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RECREATIONAL THERAPY

CISI NO. 3582

GROUP: 3500's - ALLIED HEALTH

- Recreational Therapy Programs intend to prepare individuals to plan, organize and direct medically approved recreation programs. These programs are designed to help clients recover from illnesses or to cope with temporary or permanent disabilities. Activities which are included in recreation programs may be sports trips, dramatics, arts and crafts. The program length is four years.

- Course work for Recreational Therapy Programs may include:

Municipal Programs
Institutional Programs
Physical Activities
Administration

Human Growth
Anatomy
Program Planning
Psychology

- Programs include field and clinical experiences.
- Courses which would be helpful in preparing for Recreational Therapy Programs include sports and crafts.
- CISI occupations commonly entered by graduates include:

No CISI occupations reported.
- One Iowa school has reported a program in Recreational Therapy.

- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

995 University of Northern Iowa - Cedar Falls
Therapeutic Recreation Major, four years



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SPEECH PATHOLOGY/AUDIOLOGY

CISI NO. 3603

GROUP: 3600's - HEALTH SCIENCES

- Speech Pathology/Audiology Programs include study of the nature and treatment of hearing and speech disorders. Also included in the program are the principles and techniques of providing therapy that helps to restore normal functioning. The program length varies from two to six years. Completion of the Master's degree in Speech Pathology/Audiology is required for certification by the Iowa Department of Public Instruction. Therefore, most graduates of shorter programs transfer to a school offering a Master's degree program.
- Course work for Speech Pathology/Audiology Programs may include:
 - Basis of Normal Speech Patterns
 - Speech Disorders
 - Hearing Disorders
 - Clinical Procedures
 - Organic Speech Problems
- Students will also take general liberal arts courses. A clinical experience is included in these programs.
- Courses which would be helpful in preparing for Speech Pathology/Audiology Programs include biology, physics, chemistry, English, speech and psychology.

- CISI occupations commonly entered by graduates include:

8128 Audiologist/Speech Pathologist
8152 Occupational Therapy Aide

- Related military occupations include:

81280 Speech Therapists
81520 Occupational Therapy Specialists

- Two Iowa schools have reported programs in Speech Pathology/Audiology.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

- 993 University of Iowa - Iowa City**
Speech Pathology/ Audiology, six years
- 995 University of Northern Iowa - Cedar Falls**
Speech Pathology/Audiology, four years



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CHIROPRACTIC

CISI NO. 3611

GROUP: 3600's - HEALTH SCIENCES

- Chiropractic Programs include the study of the principles and techniques for relieving disorders due to abnormal function of the nervous system. The method for treatment involves manipulation of the body, especially of the spinal column. The program length is four years. Applicants for chiropractic programs must have completed two years of college level courses.
- Course work for the Chiropractic Programs may include intensive study in basic sciences along with chiropractic science.
- Courses which would be helpful in preparing for Chiropractic Programs include biology, English, chemistry, psychology, and social studies.
- CISI occupations commonly entered by graduates include:

8122 Chiropractor
- One Iowa school has a program in Chiropractic.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

910 Palmer College of Chiropractic - Davenport
Doctor of Chiropractic, four years
Chiropractic Science, Master Science, 2 years



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DENTISTRY

CISI NO. 3612

GROUP: 3600's - HEALTH SCIENCES

- Dentistry Programs include the study of the prevention, diagnosis and treatment of diseases of the teeth and gums. Also studied is the replacement of missing teeth and the health of other body parts related to the teeth and gums. At least three years of pre-professional study are required for admission. Since admissions are selective, students are encouraged to plan their pre-professional programs so as to have an alternate career.
- Course work for a Dentistry Program falls into five basic units:
 1. Basic Science: Anatomy, Chemistry, Physiology, Pathology, Pharmacology, Microbiology
 2. Restorative Dental Sciences: Dental Anatomy, Dental Materials, Operative Dentistry, Prostheses
 3. Oral Medicine: Preventive Dentistry, Diagnosis, Radiology, Pathology, Anesthesiology, Pain Control
 4. Community Dentistry: Ethics, Epidemiology, Nutrition, Community Health, Economics, Dental Law
 5. Pediatric Dentistry: Facial Growth & Development, Pedodontics, Orthodontics
- Field experiences called preceptorships are available during the fourth year. These provide experience in areas such as Business Management, Appointment Book Control and Chair side Manner.

- Courses which should be included in a pre-dental program are English, physics, chemistry and biology.

- CISI occupations commonly entered by graduates include:

8172 Dentist

- Related military occupations include:

81720 Dentists

- One Iowa school has reported a program in Dentistry.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

993 University of Iowa - Iowa City
Dentistry, four years



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HEALTH CARE ADMINISTRATION

CISI NO. 3624

GROUP: 3600's - HEALTH SCIENCES

- Health Care Administration Programs include the principles and procedures of planning, organizing and controlling a hospital or health care facility. The length of the program is one to four years. The four-year programs involve more general liberal arts courses. The baccalaureate degree maybe earned from a four year degree granting institution that accepts credit for course works completed at the schools listed below. A Master's level program is available.

- Course work for Health Care Administration Programs may include:

Introduction to Health Care
Biology
Management of Facilities
Psychology
Sociology
Political Science

Management Principles
Health Services
Issues in Aging
Accounting
Business Law
Mathematics

- A one year internship is required for licensure.
- Courses which would be helpful in preparing for Health Care Administration Programs include English, mathematics, social studies, psychology, accounting and business administration.

- CISI occupations commonly entered by graduates include:

1134 Hospital Administrator
1135 Nursing Home Administrator

- Related military occupations include:

11001 Management Analysts
11340 Health Service Administrators

- Six Iowa schools have reported programs in Health Care Administration.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

- 705 Des Moines Area Community College - Ankeny:**
Health Care Administration, two years
- 730 Iowa Lakes Community College - Estherville:**
Health Care Administration, seven quarters

COLLEGES AND UNIVERSITIES

920 Simpson College - Indianola

Health Administration, four years

930 University of Osteopathic Medicine - Des Moines

Health Care Administration, 30 semester hours

993 University of Iowa - Iowa City

Hospital and Health Administration, two years

Master's degree

995 University of Northern Iowa - Cedar Falls

Hospital and Health Administration, three years



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MEDICINE

CISI NO. 3630

GROUP: 3600's - HEALTH SCIENCES

- Medicine Programs include the study of the principles and procedures used in the observation, diagnosis, care and treatment of health problems in humans. Attention is directed toward illness, disease, injury, deformity and other problems. Students have an opportunity to pursue a full range of academic offerings in addition to medical courses. At least three years of a pre-medical program are required for admission. Further, since admissions are highly selective, prospective students are encouraged to develop an undergraduate program which will prepare for an alternate career.
- Course work for the Medicine Program is divided into three phases: Phase One: The two year introductory phase includes three semesters of basic medical sciences and one semester of clinical medicine orientation. Phase Two: The one year intermediate phase consists of clinical clerkships in which students assist in patient care. Phase Three: In the final year the students pursue individual intensive study in the particular facet of medicine which meets their professional goals.
- Courses which must be included in programs preparing for medicine are physics, math, general chemistry, organic chemistry and the biological sciences.

- CISI occupations commonly entered by graduates include:

8112 General Practitioner
8142 Medical Specialist
8116 Surgeon

- Related military occupations include:

81120 Physicians and Surgeons
81121 Podiatrists

- One Iowa school has reported programs in medicine.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

993 University of Iowa - Iowa City
Medicine, four years



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OSTEOPATHIC MEDICINE

CISI NO. 3668

GROUP: 3600's - HEALTH SCIENCES

- Osteopathic Medicine Programs include the study of the systems of detecting and correcting physical problems of the human body. Osteopaths utilize accepted methods of diagnosis and treatment. These methods are physical, medical, surgical and manipulative. The length of the program is four years.
- Course work in Osteopathic Medicine Programs may include studies in basic and clinical sciences and therapeutics.
- Internships are required following graduation.
- A minimum of three years of college work are required for entry into the Osteopathic Medicine Program. Required courses include inorganic chemistry, organic chemistry, biology, physics and English. Applicants must also complete the medical college admissions test.
- CISI occupations commonly entered by graduates include:
 - 8112 General Practitioner
 - 8118 Osteopathic Physician
 - 8116 Surgeon
- Related military occupations include:
 - 81120 Physicians and Surgeons

- One Iowa school has reported a program in Osteopathic Medicine.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

930 University of Osteopathic Med & Health Sci - Des Moines
Osteopathic Medicine, four years



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PHARMACY

CISI NO. 3669

GROUP: 3600's - HEALTH SCIENCES

- Pharmacy Programs study the principles and procedures of medications. Included in the program is preparing, compounding, recommending, administering and dispensing of drugs and medicines. The program length is five years
- Course work for the Pharmacy Program begins with general liberal arts courses. Each year the student advances deeper into professional pharmacy courses. Students may plan their studies towards community pharmacy work or towards sciences research.
- Off-campus experiences in pharmacies are a part of the program. Advanced degrees are available.
- Courses which would be helpful in preparing for Pharmacy Programs include science and mathematics.
- CISI occupations commonly entered by graduates include:

8124 Pharmacist
- Related military occupations include:

81241 Pharmacy Technicians
81240 Pharmacists

- Two Iowa schools have reported programs in Pharmacy.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

840 Drake University - Des Moines

Pharmacy, five years

993 University of Iowa - Iowa City

College of Pharmacy, five years and up



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PODIATRY

CISI NO. 3670

GROUP: 3600's - HEALTH SCIENCES

- Podiatry Programs intend to prepare individuals to specialize in podiatric medicine, the care and treatment of feet. The program length is four years. This involves 2 1/2 years of classroom instruction and 1 1/2 years of clinical experience. Students preparing to enter the Podiatry Program should have a Bachelor's degree.
- Course work for the Podiatry Program covers the Anatomy, Physiology, Disorders, Diseases and Care and Treatment of feet.
- Courses which are required for entering the Podiatry Program are Biology, General Chemistry, Organic Chemistry, Physics and English.
- CISI occupations commonly entered by graduates include:
8142 Medical Specialists
- Related military occupations include:
81121 Podiatrists
- One Iowa school has reported a program in Podiatry

- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

930 University of Osteopathic Med and Health Sci - Des Moines
Podiatry, four years



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VETERINARY MEDICINE

CISI NO. 3679

GROUP: 3600's - HEALTH SCIENCES

- Veterinary Medicine Programs include the study of the nature, prevention and treatment of animal diseases. Also included is the medical and surgical treatment of animals. A pre-veterinary Medicine Program is required. The program length is four years.
- Course work for the Veterinary Medicine Program includes:

Anatomy
Physiology
Pathology
Infectious Diseases
Noninfectious Diseases
Obstetrics
Toxicology
Surgery

Pharmacology
Microbiology
Advanced Pathology
Applied Anatomy
Radiology
Nutrition
Clinical Medicine

- Courses which would be helpful in preparing for Veterinary Medicine Programs include biology, mathematics and chemistry.
- CISI occupations commonly entered by graduates include:

8132 Veterinarian

- Related military occupations include:

81320 Veterinarians

- One Iowa school has reported a program in Veterinary Medicine.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

991 Iowa State University - Ames
Veterinary Medicine, four years



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HOME ECONOMICS

CISI NO. 3701

GROUP: 3700's - HOME ECONOMICS

- Home Economics programs intend to provide individuals with a general understanding of the relationship between the physical, social, emotional and intellectual environment of individuals. The development of individuals and families and their relationship in all areas is included. The length of the programs is four years.
- Course work for Home Economics Programs may include:

Family Food & Nutrition	Meal Management
Costume Design	Clothing Selection
Pattern Making	Clothing Construction
Family Finance	Interior Home Design
Child Development & Family	Family Relations
Household Equipment	Consumer Education
- Specialization is available in areas such as home economics education, textiles and clothing, child development, family environment, food and nutrition and equipment and family housing. Off-campus practical experiences are included in many programs.
- Courses which would be helpful in preparing for Home Economics Programs include home economics, chemistry, physics, biology and psychology.

- CISI occupations commonly entered by graduates include:

8449 Child Day Care Worker
8136 Dietician
8472 Home Economist
2371 Interior Designer
7448 Product Demonstrator
1131 Restaurant Manager
8456 Secondary Teacher
8446 Tailor
2372 Visual Display Artist
1181 Wholesale/Retail Buyer

- Related military occupations include:

81360 Dieticians
11310 Food Service Managers
84540 Teachers and Instructors

- Two Iowa schools have reported programs in Home Economics.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

993 University of Iowa - Iowa City

Home Economics, four years

965 William Penn College - Oskaloosa

Home Economics (General), four years



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FAMILY AND COMMUNITY SERVICES

CISI NO. 3703

GROUP: 3700's - HOME ECONOMICS

- Family and Community Services Programs include the study of the cultural, social and technological influences on the family in changing societies. Family programs and support services that are available are also included. The program length is four years.
- Course work for the Family and Community Services Programs may include:

Human Growth and Development	Rehabilitation
Counseling and Tutoring	Health Care
Recreational Leadership	Family Interaction
Family Life Development	Family Economics
Financial Management	

- Off-campus practical experiences may be included.
- CISI occupations commonly entered by graduates include:

8488 Community Organization Worker
8472 Home Economist
8158 Home Health Aide
8487 Recreation Program Worker
8417 Social Worker
8428 Welfare Aide

- Related military occupations include:

84170 Social Workers

- Two Iowa schools have reported programs in Family and Community Services.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

991 Iowa State University - Ames:

Family Services, four years
Family Resource Management, four years
Family & Consumer Servs, four years
International Family & Consumer Servs, four years

995 University of Northern Iowa - Cedar Falls

Family & Consumer Studies, four years



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FOOD/FOOD SCIENCES

CISI NO. 3712

GROUP: 3700's - HOME ECONOMICS

- Food Science Programs study physical properties of foods in relation to production, preparation and nutrition. The role of food and nutrition in personal and family life may also be stressed. Program length is four years.
- Course work for the Food Science Program includes:

Food Preparation
Nutrition
Food Economics

Quantity Production
Food Research
Sensory Properties

- Specialization in consumer food or the natural and physical aspects of food is available. Field experiences and internships are available.
- Courses which would be helpful in preparing for Food Science include biology, chemistry, mathematics, home economics and physics.
- CISI occupations commonly entered by graduates include:

8436 Dietician
8472 Home Economist
2693 Laboratory Tester
2166 Researcher
1131 Restaurant Manager

- Related military occupations include:

84360 Dieticians
11310 Food Service Managers
26930 Fuel and Chemical Lab Technicians

- Two Iowa schools have reported programs in Food/Food Sciences.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

991 Iowa State University - Ames

Community Food Svcs- Food and Nutrition, four years
Food Science - Food and Nutrition, four years
Food Service Management, four years

995 University of Northern Iowa - Cedar Falls

Home Economics-Food & Nutrition, four years



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DIETETICS/HUMAN NUTRITIONAL SERVICES

CISI NO. 3713

GROUP: 3700's - HOME ECONOMICS

- Dietetics/Human Nutritional Services Programs include the study of the principles of foods and nutrition as related to the diagnosis, treatment and prevention of disease. The program length is four years.
- Course work for Dietetics/Human Nutritional Services Programs may include:

Foods Management Systems	Microbiology
Community Nutrition	Humanities
Behavioral Science	Nutrition
Clinical Dietetics	Anatomy
Biochemistry	Foods
- Off-campus practical experiences are included in some programs. Students may have the option of specializing in clinical or school dietetics.
- Courses which would be helpful in preparing for Dietetics Programs include biology, chemistry and mathematics.
- CISI occupations commonly entered by graduates include:

7849 Dietary Aide
8136 Dietician

8472 Home Economist
8158 Home Health Aide
2673 Laboratory Tester
2166 Researcher
1131 Restaurant Manager
8456 Secondary Teacher
8454 University/College Teacher

- Related military occupations include:

81360 Dieticians
26730 Fuel and Chemical Lab Technicians
11310 Food Service Managers
84540 Teachers and Instructors

- Three Iowa schools have reported programs in Dietetics/ Human Nutritional Services.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

991 Iowa State University - Ames:

Community Nutrition - Food & Nutrition, four years
Dietetics - Food & Nutrition, four years
Nutritional Science-Food and Nutrition, four years

885 Marycrest College - Davenport

Foods and Nutrition- Dietetics, four years

995 **University of Northern Iowa - Cedar Falls**
Dietetics, four years



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HUMAN ENVIRONMENT AND HOUSING

CISI NO. 3716

GROUP: 3700's - HOME ECONOMICS

- Human Environment and Housing Programs include the study of psychological, social and aesthetic aspects of housing. Programs cover the selection of housing, furnishings, household equipment, interior design and the maintenance and repair of the home. The program length is four years.
- Course work for Human Environment and Housing Programs may include:
 - Housing
 - Residential Lighting
 - Kitchen, Bath & Utility Planning
 - Household Equipment
 - Interior Design
- Courses which would be helpful in preparing for Human Environment and Housing Programs include drafting, design and art.
- CISI occupations commonly entered by graduates include:
 - 8472 Home Economist
 - 2371 Interior Designer
- Two Iowa schools have reported programs in Human Environment and Housing.

- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

991 Iowa State University - Ames

Housing and the Near Environment, four years

995 University of Northern Iowa - Cedar Falls

Design and Human Environment, four years



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TEXTILES AND CLOTHING

CISI NO. 3727

GROUP: 3700's - HOME ECONOMICS

- Textiles and Clothing Programs include study of the ways to meet psychological, sociological and economical needs for clothing and textiles. The programs include the study of the techniques of production, distribution, marketing and consumption of clothing. The length of the program is four years.
- Course work for Textiles and Clothing Programs may include:

Fashion Merchandising	Advertising
Fashion Illustration	Journalism
Personnel Management	Display
Fashion Design	
- Field trips and other off-campus practical experiences are included in the programs.
- Courses which would be helpful in preparing for Textiles and Clothing Programs include mathematics, chemistry, English and speech.
- CISI occupations commonly entered by graduates include:

1196 Advertising Account Executive
4724 Commercial Artist
8472 Home Economist
2371 Interior Designer

7448 Product Demonstrator
2372 Visual Display Artist

- Related military occupations include:

47240 Graphic Designers and Illustrators

- Two Iowa schools have reported programs in Textiles and Clothing.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

991 Iowa State University - Ames

Textiles and Clothing Related Science, four years

995 University of Northern Iowa - Cedar Falls

Home Economics Business-Clothes/Textiles, four years



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FASHION DESIGN

CISI NO. 3728

GROUP: 3700's - HOME ECONOMICS

- Fashion Design Programs include the study of the creative combination of line, form and fabric in the production of clothing and accessories. Designing for men, women and children is included. The program length is four years.
- Course work for the Fashion Design Program stresses a strong general business background in addition to textiles, clothing and art. Study tours and field experiences are available.
- Specialization is possible in design for special areas such as handicapped, elderly, larger sizes, theater and dance.
- Courses which would be helpful in preparing for Fashion Design Programs include home economics, social studies, mathematics, psychology and art.
- CISI occupations commonly entered by graduates include:

4724 Commercial Artist
4446 Tailor
- Related military occupations include:

47240 Graphic Designers and Illustrators

- One Iowa school has reported a program in Fashion Design.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

991 Iowa State University - Ames

Apparel Design and Patternmaking, four years



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CHILD DEVELOPMENT, CARE AND GUIDANCE

CISI NO. 3802

GROUP: 3800's - VOCATIONAL HOME ECONOMICS

- Child Development, Care and Guidance Programs intend to prepare individuals to understand children's growth, development, care and guidance. Attention is given to both emotional and social growth. The program draws on aspects of the social and biological sciences of which Home Economics is included. The program length is three quarters to four years.

- Course work for Child Development, Care and Guidance programs may include:

Psychology

Counseling & Tutoring
Literature for Children

Child Growth and Develop-
ment
Family Relations
Health Care

- Students may specialize in pre-kindergarten/kindergarten education, growth and development of handicapped children or community service for children. Off-campus practical experiences are available.
- Courses which would be helpful in preparing for Child Development, Care and Guidance Programs include algebra, biological science and English.

- CISI occupations commonly entered by graduates include:

8449 Child Day Care Worker
8455 Elementary Teacher
8472 Home Economist
8457 Preschool Teacher
8482 Recreation Program Worker
1422 Teacher Aide

- Related military occupations include:

84540 Teachers and Instructors

- Nine Iowa schools have reported programs in Child Development, Care and Guidance.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

705 Des Moines Area Community College - Ankeny:

Child Development, two terms or two years
Development Disabilities, two terms or two years

710 Eastern Iowa Community College - Muscatine

Early Childhood Education, 2 years

725 Iowa Central Community College - Fort Dodge

Child Development, two years

735 Iowa Valley Community College -

Iowa Falls: Human Services Specialist, one or two years
Marshalltown: Child Care

740 Iowa Western Community Coll. - Council Bluffs

Care of Disabled and Handicapped, three qtrs
Child Development Associate, four quarters

745 Kirkwood Community College - Cedar Rapids:

Handicapped Service Program, two years

755 Northeast Iowa Technical College -

Calmar: Child Care, four quarters
Calmar: Early Childhood, four quarters
Peosta: Early Childhood, Peosta, four quarters
Peosta: Human Services Associate, Peosta, four quarters

COLLEGES AND UNIVERSITIES

991 Iowa State University - Ames:

Child Development, four years
Growth and Development of Children, four years

945 Waldorf College - Forest City

Child Care Associate, two years



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BAKING

CISI NO. 3828

GROUP: 3800's - VOCATIONAL HOME ECONOMICS

- Baking Programs include the study of the preparation of bakery food products for use in commercial food establishments or for retail distribution. The program includes the making, freezing and handling of baked products; decorating; counter display and service; and the packaging of bakery products. The length of the program is three quarters.

- Course work for the Baking Programs may include:

Sanitation & Safety
Ingredients & Measurements
Breads & Rolls
Cost Control
Cakes & Icings
Pies & Pastry

- An off-campus field experience is included in the program.
- Courses which would be helpful in preparing for Baking Programs include English and mathematics.
- CISI occupations commonly entered by graduates include:

4324 Baker
7824 Cook/Chef

- Related military occupations include:

78240 Food Service Specialists

- Three Iowa schools have reported programs in Baking.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

SPECIALIZED SCHOOLS

620 Job Corps - Denison: Baking, one month

AREA SCHOOLS

720 Indian Hills Community College - Ottumwa:

Baker, nine months

740 Iowa Western Community College - Council Bluffs

Baking



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CHEF/COOK

CISI NO. 3829

GROUP: 3800's - VOCATIONAL HOME ECONOMICS

- Chef/Cook Programs include the study of the preparation and cooking of a variety of foods to maintain nutritive values and quality. Programs vary in length from three to six quarters. The longer programs place more emphasis on administrative and management responsibilities.

- Course work for Chef/Cook Programs may include:

Sanitation & Safety	Menu Planning
Purchasing	Mathematics
Food Preparation	Short Order Cooking
Buffet Decorating	Table Service
International Cuisine	Meat Cutting
Catering	Portion Control
Salads & Vegetables	Sauces & Soups

- Practical work experiences are included in most programs.
- Courses which would be helpful in preparing for Chef/Cook Programs include home economics, mathematics, English and psychology.
- CISI occupations commonly entered by graduates include:

4324 Baker
7842 Caterer

7824 Cook/Chef

- Related military occupations include:

78240 Food Service Specialists

- Five Iowa schools have reported programs in Chef/Cook.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

SPECIALIZED SCHOOLS

620 Job Corps - Denison:
Culinary Arts

AREA SCHOOLS

705 Des Moines Area Community College - Ankeny:
Culinary Arts, five terms

720 Indian Hills Community College - Ottumwa:
Commercial Cooking

740 Iowa Western Community Coll. - Council Bluffs
Cooking & Baking, four quarters
Culinary Arts

745 Kirkwood Community College - Cedar Rapids
Food Service Training, three quarters



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HOME FURNISHINGS DESIGN & MANAGEMENT

CISI NO. 3836

GROUP: 3800's - VOCATIONAL HOME ECONOMICS

- Home Furnishings Design & Management Programs include the study of assisting customers in the selection of home furnishings and accessories to meet needs, preferences and budgets. Program length varies from three quarters to four years. Shorter programs concentrate on interior decoration while the longer programs place more emphasis on interior design. Some graduates transfer to four-year institutions to obtain their Bachelor's degree.

- Course work for Home Furnishings Design & Management Programs may include:

Fabrics
Wall & Floor Covering
Furniture Const. & Design
Fine Art Works & Accessories
Lighting
Kitchen, Bathroom & Storage

Merchandising
Drawing
Display
Interior Designer
Contract Designing

- Practical field experiences are available in some programs.
- Courses which would be helpful in preparing for Home Furnishings Design & Management Programs include English, mathematics and home economics.

- CISI occupations commonly entered by graduates include:

2371 Interior Designer
7454 Salesperson
2372 Visual Display Artist

- Related military occupations include:

74540 Sales and Stock Specialists

- Five Iowa schools have reported programs in Home Furnishings Design & Management.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

710 Eastern Iowa Community College - Bettendorf
Interior Design, seven quarters

715 Hawkeye Institute of Technology - Waterloo:
Interior Design, six quarters

745 Kirkwood Community College - Cedar Rapids:
Interior Design Technology

COLLEGES AND UNIVERSITIES

991 Iowa State University - Ames

Interior Design, four yrs

965 William Penn College - Oskaloosa

Home Ec, Interior Design Technology, four years



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HOMEMAKER AIDE

CISI NO. 3849

GROUP: 3800's - VOCATIONAL HOME ECONOMICS

- Homemaker Aide Programs intend to prepare individuals to assist homemakers in the care and management of the home. Areas covered include care of children, care of the aged, planning and preparing meals, laundering, caring for furniture and equipment, management and decision making. The program length is 75 or 120 hours. Graduates often find employment in long-term health care facilities and with in-home service agencies.

- Course work for Homemaker Aide Programs may include:

Human Relations
Food and Nutrition
Home Management

Child Care
Care of the Aged
Care of the Handicapped

- CISI occupations commonly entered by graduates include:

8166 Nurse Aide / Orderly
8158 Home Health Aide

- Related military occupations include:

81660 Nursing Technicians

- Three Iowa schools have reported a program in Homemaker Aide.

- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

740 Iowa Western Community Coll. - Council Bluffs

Homemaker Health Aide, 75 hours

750 North Iowa Area Community College - Mason City

Homemaker Home Health Aide, 120 hours

770 Southwest Iowa Community College - Creston:

Home Health Aide, two quarters



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NANNY

CISI NO. 3860

GROUP: 3800's - VOCATIONAL HOME ECONOMICS

- Nanny programs intend to prepare individuals for in-home child care. Nannys become more involved in the growth and development of the children than day care workers. Emphasis is placed on assisting the child with the the development of social, psychological and physical skills. The program length is 12 weeks.

- Course work for the Nanny program includes:

Child Growth and Development	Infant and Toddler Care
Family Communication	Nutrition
Community Resources	Etiquette

- CISI occupations commonly entered by graduates include:

No CISI occupations are directly related to this program.

- Two Iowa schools have reported a Nanny program.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

SPECIALIZED SCHOOLS

623 Eastern Iowa School for Nannies - Le Clair

Nanny, 12 weeks

668 Midwest Nanny Academy - Des Moines:

Nanny



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INDUSTRIAL ARTS

CISI NO. 3901

GROUP: 3900's - INDUSTRIAL ARTS

- Industrial Arts programs intend to provide students with exploratory experiences and knowledge about trade and industrial career opportunities. Program emphasis is placed upon leadership responsibilities. The program length is four years.
- Course work for the Industrial Arts Programs may include:

Metals
Woods
General Mathematics

Drafting
Electricity

- A cooperative experience with the Local Manufacturing Corporation is required. Other internships and off-campus experiences are available. Course work is presented both in traditional classroom methods and in laboratory settings.
- Courses which would be helpful in preparing for Industrial Arts Programs include industrial arts, mathematics and basic science.
- CISI occupations commonly entered by graduates include:

2672 Construction Inspector
2461 Electronic Technician
2451 Engineering Technician
3164 Office Machine Servicer

1154 Production Supervisor
3168 TV/Radio Repairer

- Related military occupations include:

56680 Electronic Instrument Repairers
31682 Teletype Repairers
56009 Space Systems Specialists
31640 Office Machine Repairers
31651 Data Processing Equipment Repairer
31680 Radio Equipment Repairers
31681 Radar and Sonar Equipment Repairers

- Two Iowa schools have reported programs in Industrial Arts.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

960 Westmar College - Le Mars

Industrial Education, four years

965 William Penn College - Oskaloosa

Industrial Arts, four years

Industrial Arts,

Electronic Tech/Elect Computer Maint, two years



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LEGAL ASSISTING

CISI NO. 4003

GROUP: 4000's - LAW

- Legal Assisting Programs intend to prepare individuals to assist lawyers and/or to work in courthouses. Length varies from seven quarters to two years.

- Course work for Legal Assisting Programs may include:

Business Law
Criminal Procedures
Domestic Relations
Estate Planning
Civil Procedure
Real Estate Law

Law Office Procedures
Legal Research
Torts & Insurance
Income Tax
Wills, Trusts & Probate

- Practical legal office experiences are included in some programs.
- Courses which would be helpful in preparing for Legal Assisting Programs include English, history and mathematics.
- CISI occupations commonly entered by graduates:
8433 Paralegal Assistant
- Related military occupations include:
84330 Legal Technicians

- Four Iowa schools have reported programs in Legal Assisting.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

SPECIALIZED SCHOOLS

230 American Institute of Commerce - Cedar Falls:
Legal Assistant, four quarters

AREA SCHOOLS

705 Des Moines Area Community College - Ankeny:
Legal Assistant, two years

730 Iowa Lakes Community College - Estherville:
Legal Assistant, seven quarters

745 Kirkwood Community College - Cedar Rapids:
Legal Assistant, two years



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ENGLISH

CISI NO. 4301

GROUP: 4300's - ENGLISH AND SPEECH

- English programs include the study of the skills and attitudes used in communicating and evaluating thoughts and feelings. Programs include the skills and techniques essential in learning the English language and literature. Many students use English Programs as preparation for professional studies such as medicine, law and the ministry. Some students continue on to graduate school. All programs are four year degree programs.

- Course work for English programs may include:

Children's Literature
Third World Literature
American Literature
British Literature
Technical Writing
Contemporary Drama
Creative Writing

Linguistics
Journalism
Composition
Shakespeare
Mythology
Phonetics
Chaucer

- Off-campus, especially foreign, study programs may be available. Specialization is available in areas such as literature, creative writing or linguistics.
- Courses which would be helpful in preparing for English, programs include English.

- CISI occupations commonly entered by graduates include:

1196 Advertising Account Executive
8455 Elementary Teacher
2182 Proofreader
2173 Reporter
8456 Secondary Teacher
2177 Technical Writer

- Related military occupations include:

84540 Teachers and Instructors
21730 Reporters and Newswriters

- Twenty-seven Iowa schools have reported programs in English.

- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

800 Briar Cliff College - Sioux City: English
805 Buena Vista College - Storm Lake: English
810 Central College - Pella: English
815 Clarke College - Dubuque: English
820 Coe College - Cedar Rapids: English
830 Divine Word College - Epworth: Humanities/English,
835 Dordt College - Sioux Center: English
840 Drake University - Des Moines: English

850 Graceland College - Lamoni: English
855 Grandview College - Des Moines: English
860 Grinnell College - Grinnell: English
991 Iowa State University - Ames: English
865 Iowa Wesleyan College - Mount Pleasant: English,
870 Loras College - Dubuque: English
875 Luther College - Decorah: English
885 Marycrest College - Davenport: English
890 Morningside College - Sioux City: English
895 Mount Mercy College - Cedar Rapids: English
915 St. Ambrose College - Davenport: English
920 Simpson College - Indianola: English
925 University of Dubuque - Dubuque: English
993 University of Iowa - Iowa City:, English
995 University of Northern Iowa - Cedar Falls
English Major (Non-Teaching)
935 Upper Iowa University - Fayette: English
950 Wartburg College - Waverly: English
960 Westmar College - Le Mars: English
965 William Penn College - Oskaloosa: English



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CLASSICS

CISI NO. 4302

GROUP: 4300's - ENGLISH AND SPEECH

- Classics Programs include the study of the language and literature of the ancient Greek and Roman worlds. Classics Programs are generally used as preparation for professional studies, especially the ministry. The program length is four years.

- Course work for Classics Programs may include:

Latin Language
Greek Language
Ancient History

Latin Literature
Greek Literature
Philosophy

- Students also take courses in general liberal arts. Off-campus, especially out of state, study programs may be available.
- Courses which would be helpful in preparing for Classics Programs include English, mathematics and foreign languages.
- CISI occupations commonly entered by graduates include:

No CISI occupations reported.
- Three Iowa schools have reported programs in Classics.

- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

860 Grinnell College - Grinnell: Classics, four years

870 Loras College - Dubuque: Classical Studies, four years

993 University of Iowa - Iowa City: Classics, four years



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COMPARATIVE LITERATURE

CISI NO. 4303

GROUP: 4300's - ENGLISH AND SPEECH

- Comparative Literature Programs include the study of comparing literature based on selected topics such as theme, literary period and language source. Different nationalities are compared, such as English literature and American literature. Comparisons are also made among authors of different historical periods. Programs are four years in length. Students often use these programs as preparation for a professional studies program, such as medicine, law or the ministry.
- Course work for Comparative Literature may include:

Renaissance Literature	English Literature
Contemporary Literature	American Culture
Victorian Literature	Shakespeare
American Literature	Chaucer
- Students will also take general liberal arts courses. Opportunities are available for off-campus studies.
- Courses which would be helpful in preparing for Comparative Literature Programs include English.
- CISI occupations commonly entered by graduates include:

8456 Secondary Teacher

- Related military occupations include:

84540 Teachers and Instructors

- Four Iowa schools have reported programs in Comparative Literature.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

820 Coe College - Cedar Rapids

Literature, four years

880 Maharishi International Univ. - Fairfield:

Literature

905 Northwestern College - Orange City

English, four years

993 University of Iowa - Iowa City

Comparative Literature, four years

Literature, four years



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LINGUISTICS

CISI NO. 4306

GROUP: 4300's - ENGLISH AND SPEECH

- Linguistics Programs include the study of the descriptive, history and theory parts of languages. The nature, structure, varieties and development of languages are also studies. Focus is placed on word patterns, sentence and sound patterns and their relations to meanings. The program length is four years. Many students completing these programs continue on to graduate school.

- Course work for Linguistics Programs may include:

English Grammar
Symbolic Logic
History of Language
Philosophy of Language
Phonology

Linguistics
Anthropology
Phonetics
Cultural Anthropology
Semantics

- Students will also take general liberal arts courses. Off-campus, especially foreign studies, may be available.
- Courses which would be helpful in preparing for Linguistics Programs include English.
- CISI occupations commonly entered by graduates include:

2173 Reporter
8456 Secondary Teacher

2177 Technical Writer
8454 University/College Teacher

- Related military occupations include:

21730 Reporters and Newswriters
84540 Teachers and Instructors

- Four Iowa schools have reported programs in Linguistics.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

810 Central College - Pella

Linguistics, four years

991 Iowa State University - Ames: Linguistics, four years

993 University of Iowa - Iowa City

Linguistics, four years

995 University of Northern Iowa - Cedar Falls

English Linguistics, four years



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SPEECH, DEBATE AND FORENSICS

CISI NO. 4310

GROUP: 4300's - ENGLISH AND SPEECH

- Speech, Debate and Forensics Programs include the study of methods for improving speaking and listening skills. The application of forms of argument to testing ideas or reaching decisions is also studied. The length of the program is four years.
- Students will take general speech courses, courses in their area of specialization and general liberal arts courses. Many schools offer off-campus and foreign study experiences. Students emphasizing media communications have opportunities for internships in schoolrooms, radio and television stations at some schools. Students emphasizing theater and dramatics will have opportunities to participate in college stage productions.
- Students may specialize in such areas as teacher preparation, theater and dramatic, forensics and media communications.
- Courses which would be helpful in preparing for Speech, Debate and Forensics Programs include English, speech and debate.
- CISI occupations commonly entered by graduates include:
 - 9866 Actor/Actress
 - 8128 Audiologist/Speech Pathologist
 - 8455 Elementary Teacher
 - 9824 Radio/TV Announcer

2173 Reporter
8456 Secondary Teacher
2177 Technical Writer

- Related military occupations include:

81280 Speech Therapists
84540 Teachers and Instructors
98240 Radio and TV Announcers
21730 Reporters and Newswriters

- Thirteen Iowa schools have reported programs in Speech, Debate and Forensics.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

805 Buena Vista College - Storm Lake
Speech / Drama, four years
835 Dordt College - Sioux Center
Speech (General), four years
840 Drake University - Des Moines
Speech Communication, four years
850 Graceland College - Lamoni
Speech, 4 years
855 Grandview College - Des Moines
Speech & Theater Arts, four years

870 Loras College - Dubuque

Speech Communications, four years

875 Luther College - Decorah

Speech, Theater and Linguistics, four years

915 St. Ambrose College - Davenport

Theater and Mass Communications, four years

925 University of Dubuque - Dubuque

Speech, four years

991 Iowa State University - Ames

Speech Communication, four years

993 University of Iowa - Iowa City

Communication Studies, four years

995 University of Northern Iowa - Cedar Falls:

Theater Arts, four years

960 Westmar College - Le Mars

Communication Arts: Speech & Dramatic Arts, four yrs



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LIBERAL/GENERAL STUDIES

CISI NO. 4601

GROUP: 4600's - LIBERAL/GENERAL STUDIES

- Liberal/General Studies Programs include study in a wide variety of subjects. Usually a major part of the program includes understanding self and society. Most students do not major in any specific area. They are able to tailor their academic program to fit their individual needs. The program length varies from two to four years. Students who complete the shorter programs often transfer to four year institutions in order to complete a Bachelor's degree.
- Course work for Liberal/General Studies Programs is concentrated in the humanities rather than the sciences or other areas.
- Most students entering Liberal/General Studies Programs use them to prepare for further professional education; to obtain a general academic background before entering the business world; or to provide an opportunity to take a variety of courses while deciding on a final major.
- Courses which would be helpful in preparing for Liberal/ General Studies Programs include English, mathematics and sciences.
- CISI occupations commonly entered by graduates include:

1635 Insurance Underwriter

- Nine Iowa schools have reported programs in Liberal/ General Studies.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

720 Indian Hills Community College - Ottumwa:
Liberal Arts, two years

COLLEGES AND UNIVERSITIES

800 Briar Cliff College - Sioux City
Liberal Arts, two years

805 Buena Vista College - Storm Lake
Distributive Major, four years

835 Dordt College - Sioux Center
Individual Studies, four years

850 Graceland College - Lamoni:
Experimental Curriculum, four years
Liberal Studies, four years

900 Mount St. Clare College - Clinton
Liberal Arts, two yrs

993 University of Iowa - Iowa City:
General Studies, four years

995 University of Northern Iowa - Cedar Falls:

General Studies, four years

Individual Studies Major, four years

Liberal Studies, four years

945 Waldorf College - Forest City:

Pre-professional Studies, two years



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LIBRARY SCIENCE

CISI NO. 4804

GROUP: 4800's - LIBRARY AND ARCHIVAL SCIENCES

- Library Science Programs intend to prepare individuals to develop, organize, administer, store, retrieve and encourage the use of library materials. The length of the program varies from four to five years. Many students go on to graduate school.
- Course work for Library Science Programs may include:

Audio Visual Instruction
Library Administration
Selection of Materials
Young Adult Literature
Library Organization

Children's Literature
Media Selection
Cataloging
Reference

- An internship is required in most programs.
- Courses which would be helpful in preparing for Library Science Programs include practical experience as a library aide.
- CISI occupations commonly entered by graduates include:

8492 Librarian
1428 Library Assistant
- Two Iowa schools have reported programs in Library Science.

- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

993 University of Iowa - Iowa City

Library and Info Science, five years (Master's)

995 University of Northern Iowa - Cedar Falls

Library Science, four years



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MUSEOLOGY

CISI NO. 4805

GROUP: 4800's - LIBRARY AND ARCHIVAL SCIENCES

- Museology Programs include the study of the development, organization, administration, storage, retrieval and use of museums and museum materials. Art galleries, zoological gardens and other storage houses of collections of materials are also included in the study. The program length is four years.
- Students taking this program will also pursue a second major usually in history or a related field.
- Internships, work study and research projects at museums are included.
- Courses which would be helpful in preparing for Museology Programs include history, social sciences, English and mathematics.
- CISI occupations commonly entered by graduates include:

No CISI occupations were reported.

- One Iowa school has reported a program in Museology.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

875 Luther College - Decorah: Museum Studies, four years



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BIOLOGY

CISI NO. 4901

GROUP: 4900's - LIFE SCIENCES

- Biology programs include the study of life forms. Programs cover the structure, function, reproduction, growth, heredity, behavior and distribution of living organisms. All programs are four year degree programs except Biology and Human Anatomy offered by Palmer College of Chiropractic which are advanced courses preparing for chiropractic. Many students use general Biology programs to prepare for specialized study in the medical field. Many students go on to graduate school.

- Course work for Biology programs may include:

Plant Physiology	Taxonomy
Aquatic Biology	Genetics
Comparative Anatomy	Zoology
Microbiology	Ecology
Ornithology	Botany
Embryology	

- Off-campus field experiences are included in many programs. Many of these experiences are conducted out of state and in other countries.
- Courses which would be helpful in preparing for Biology Programs include chemistry, physics, mathematics and biology.

- CISI occupations commonly entered by graduates include:

2675 Agricultural Commodities Inspector
8455 Elementary Teacher
8257 Environmental Health Assistant
4128 Forest Technician
2693 Laboratory Tester
2611 Life Scientist
2676 Pest Control Technician
8456 Secondary Teacher
8454 University/College Teacher
4134 Wildlife/Conservation Aide

- Related military occupations include:

84540 Teachers and Instructors
94822 Environmental Health Specialists
94821 Industrial Hygienists
26930 Fuel and Chemical Lab Technicians
26110 Life Scientists

- Twenty-eight Iowa schools have reported programs in Biology.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

- 800 Briar Cliff College - Sioux City: Biology
805 Buena Vista College - Storm Lake: Biology
810 Central College - Pella: Biology
815 Clarke College - Dubuque: Biology
820 Coe College - Cedar Rapids: Biology
835 Dordt College - Sioux Center: Biology
840 Drake University - Des Moines: Biology
850 Graceland College - Lamoni: Biology
860 Grinnell College - Grinnell: Biology
991 Iowa State University - Ames: Biology
865 Iowa Wesleyan College - Mount Pleasant: Biology,
and Life Science
870 Loras College - Dubuque: Biology
875 Luther College - Decorah: Biology
880 Maharishi International Univ. - Fairfield: Biology
885 Marycrest College - Davenport: Biology
890 Morningside College - Sioux City: Biology
895 Mount Mercy College - Cedar Rapids: Biology
905 Northwestern College - Orange City: Biology
910 Palmer College of Chiropractic - Davenport
Biology and Anatomy
915 Saint Ambrose College - Davenport
Biology and Health Science
920 Simpson College - Indianola: Biology
925 University of Dubuque - Dubuque: Biology
993 University of Iowa - Iowa City: Biology
995 University of Northern Iowa - Cedar Falls: Biology
935 Upper Iowa University - Fayette: Biology
950 Wartburg College - Waverly: Biology
960 Westmar College - Le Mars: Biology
965 William Penn College - Oskaloosa:
Biology
Biology or Natural Science Composite/Nursing,



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BIOCHEMISTRY AND BIOPHYSICS

CISI NO. 4902

GROUP: 4900's - LIFE SCIENCES

- Biochemistry and Biophysics Programs include the study of living systems. Biochemistry Programs study the interaction among substances and the effects of these substances on living systems. Biophysics Programs study living organisms using physical principles and methods. The program length is four years. Many persons completing these programs continue to graduate school. Others use Biochemistry and Biophysics Programs as methods of preparation for special schools in medicine and related fields.

- Course work for Biochemistry and Biophysics may include:

Inorganic Chemistry
Physical Chemistry
General Chemistry
Organic Chemistry
Biochemistry

General Math
Biophysics
Calculus
Biology
Physics

- Courses which would be helpful in preparing for Biochemistry and Biophysics include mathematics, chemistry, physics and English.
- CISI occupations commonly entered by graduates include:

2693 Laboratory Tester
2611 Life Scientist
2624 Physical Scientist

2166 Researcher
8456 Secondary Teacher
8454 University/College Teacher

- Related military occupations include:

26930 Fuel and Chemical Lab Technicians
26110 Life Scientists
26244 Physicists
26250 Chemists
84540 Teachers and Instructors

- Two Iowa schools have reported programs in Biochemistry and Biophysics.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

991 Iowa State University - Ames:

Agricultural Biochemistry, four years
Biochemistry, four years
Biophysics, four years

993 University of Iowa - Iowa City

Biochemistry, four years



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BOTANY

CISI NO. 4903

GROUP: 4900's - LIFE SCIENCES

- Botany Programs include the study of life forms including the structure, function, reproduction, growth, heredity, evolution and distribution of plant life. The length of the program is four years. Many graduates continue on to graduate school.
- Course work for the Botany Programs may include:

Botany
Biochemistry
Mathematics
Geology

Zoology
Chemistry
Physics

- Internships and other off-campus work experiences are included in this program.
- Courses which would be helpful in preparing for Botany Programs include biology, chemistry, physics, mathematics and English.
- CISI occupations commonly entered by graduates include:

2693 Laboratory Tester
2611 Life Scientist
2166 Researcher
8456 Secondary Teacher

- Related military occupations include:

26930 Fuel and Chemical Lab Technicians
26110 Life Scientists
84540 Teachers and Instructors

- Two Iowa schools have reported a program in Botany.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

991 Iowa State University - Ames: Botany, four years
993 University of Iowa - Iowa City: Botany, four years



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MICROBIOLOGY

CISI NO. 4914

GROUP: 4900's - LIFE SCIENCES

- Microbiology Programs include the study of micro-organisms including bacteria, viruses, protista, protozoa and certain fungi. The program length is four years. Many students use Microbiology as a method of preparing for medical and medical related training.

- Course work for the Microbiology Programs may include:

Inorganic Chemistry
Computer Science
Organic Chemistry
General Biology
Biochemistry
Statistics

Genetics
Calculus
Zoology
Physics
Botany

- Opportunities for off-campus study experience are available.
- Courses which would be helpful in preparing for Microbiology include biology, chemistry, mathematics and physics.
- CISI occupations commonly entered by graduates include:

2693 Laboratory Tester
2611 Life Scientist
2652 Medical Technologist
2166 Researcher

8456 Secondary Teacher
8454 University/College Teacher

- Related military occupations include:

26930 Fuel and Chemical Lab Technicians
26520 Medical Laboratory Technicians
84540 Teachers and Instructors

- Two Iowa schools have reported a program in Microbiology.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

991 Iowa State University - Ames

Microbiology
(bacteriology, immunology and virology), four years
Agricultural Microbiology, four years

993 University of Iowa - Iowa City

Microbiology, four years



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BIOMETRICS AND BIOSTATISTICS

CISI NO. 4916

GROUP: 4900's - LIFE SCIENCES

- Biometrics and Biostatistics Programs include the study and application of mathematical and statistical models and methods of biology. The program length is four years.
- Course work for the Biometrics and Biostatistics Programs combines courses in statistics, agriculture, biological sciences and computer science. Many graduates obtain minors in computer science or mathematics. Off-campus practical field experiences are available.
- Courses which would be helpful in preparing for Biometrics and Biostatistics include agriculture, mathematics, science and English.
- CISI occupations commonly entered by graduates include:

2166 Researcher
- One Iowa school has reported a program in Biometrics and Biostatistics.
- The following gives each school's CISI number, name, city, program title and program length.

- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

991 Iowa State University - Ames: Biometry, four years



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ECOLOGY

CISI NO. 4917

GROUP: 4900's - LIFE SCIENCES

- Ecology Programs include study of the interrelationships among organisms and their environments. The length of the program is four years.
- Course work for the Ecology Programs is based on Biology with an emphasis on vertebrates. Elective courses allow students to specialize in their area of interest.
- Off-campus work experience of study is required for graduation.
- Courses which would be helpful in preparing for Ecology Programs include mathematics, chemistry and biology.
- CISI occupations commonly entered by graduates include:
 - 2693 Laboratory Tester
 - 2611 Life Scientist
 - 2166 Researcher
 - 8456 Secondary Teacher
 - 2177 Technical Writer
 - 8454 University/College Teacher
- Related military occupations include:

26930 Fuel and Chemical Lab Technicians

26110 Life Scientists
84540 Teachers and Instructors

- One Iowa school has reported a program in Ecology.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

991 Iowa State University - Ames
Animal Ecology, four years



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ZOOLOGY

CISI NO. 4928

GROUP: 4900's - LIFE SCIENCES

- Zoology programs include the study of animals. The program includes the study of their structure, function, reproduction, growth, heredity, evolution, behavior and distribution. The program length is four years. Many students use Zoology Programs to prepare for specialized medical and medical related training.
- Course work for the Zoology Programs may include courses in basic biological sciences. Students will also take courses in the arts and humanities. Emphasis is placed on physical science and mathematics.
- Off-campus field experiences are available in state and out of state.
- Courses which would be helpful in preparing for Zoology Programs include mathematics, English and foreign language.
- CISI occupations commonly entered by graduates include:
 - 2611 Life Scientist
 - 2166 Researcher
 - 8456 Secondary Teacher
- Related military occupations include:
 - 26110 Life Scientists
 - 84540 Teachers and Instructors

- One Iowa school has reported programs in Zoology.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

991 Iowa State University - Ames:

Zoology, four years
(with pre-professional specialization), four years



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ENTOMOLOGY

CISI NO. 4929

GROUP: 4900's - LIFE SCIENCES

- Entomology Programs include the study of insects. Areas covered include their life cycle, morphology, physiology, ecology and taxonomy. The program length is four years.
- Course work for the Entomology Programs may include intensive studies in the biological sciences with emphasis on insects. Students also must obtain a solid background in physical and mathematical sciences.
- Internships and other off-campus work experience opportunities are available.
- Courses which would be helpful in preparing for Entomology Programs include biology, chemistry, physics and mathematics.
- CISI occupations commonly entered by graduates include:
 - 2611 Life Scientist
 - 2676 Pest Control Technician
 - 2166 Researcher
 - 8456 Secondary Teacher
 - 8454 University/College Teacher

- Related military occupations include:

26110 Life Scientists
84540 Teachers and Instructors

- One Iowa school has reported a program in Entomology.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

991 Iowa State University - Ames: Entomology, four years



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GENETICS

CISI NO. 4930

GROUP: 4900's - 4900's LIFE SCIENCES

- Genetics is the study of the structure, function, and inheritance of the hereditary material in plants, animals, micro-organism, and human populations. The study of genetics includes molecular analysis of DNA structure and function, the isolation and characterization of the role of individual genes and mutations in growth and development, and the study of the action and interaction of genetic variation in groups and populations.

- Course work for Genetics may include:

Biological Sciences
Mathematics
Chemistry
Physics

Microbiology
Basic Genetics
Molecular Genetics
Genetic Engineering

- Courses which would be helpful in preparing for study in the program of Genetics include mathematics, biology, chemistry, college algebra, physics, computer skills.
- CISI occupations commonly entered by graduates include:

2643 Agronomist
2693 Laboratory Tester
2611 Life Scientist
7414 Manufacturer Representative

2166 Researcher
8456 Secondary Teacher
1422 Technical Writer

- One Iowa school has reported a program in Genetics.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

991 Iowa State University - Ames: Genetics, four years



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TAXIDERMY

CISI NO. 4935

GROUP: 4900's - LIFE SCIENCES

- Taxidermy Programs intend to prepare students for careers in taxidermy. Five major areas are covered; fish, birds, mammal game heads and rugs. The length of the program is 360 hours.

- Course work for the Taxidermy Program includes:

Basemaking	Tanning
Woodworking	Form Alterations
Anatomy	Freeze Drying
Business	Laws

- CISI occupations commonly entered by graduates include:

No CISI occupations were reported.

- Two Iowa schools have reported programs in Taxidermy.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

SPECIALIZED SCHOOLS

685 Northwest Iowa School of Taxidermy - Spirit Lake:
Taxidermy, 360 hours

690 Storey's Conventional School of Taxidermy - Spencer
Taxidermy



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MATHEMATICS

CISI NO. 5001

GROUP: 5000's - MATHEMATICS

- Mathematics programs include the study of the sciences of logical symbolic language and their application. All programs are four year degree programs.
- Course work for Mathematics programs may include:

Differential Equations	Number Theory
Linear Algebra	Statistics
Analytical Geometry	Calculus
Trigonometry	Algebra
Probability	
- Courses which would be helpful in preparing for Mathematics include mathematics.
- CISI occupations commonly entered by graduates include:

2166 Researcher
8456 Secondary Teacher
2331 Statistician
8454 University/College Teacher
- Related military occupations include:

84540 Teachers and Instructors

23310 Operations Analysts

- Twenty-seven Iowa schools have reported programs in Mathematics.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

800 Briar Cliff College - Sioux City: Mathematics
805 Buena Vista College - Storm Lake: Mathematics
810 Central College - Pella: Mathematics and Computer Sci
815 Clarke College - Dubuque: Mathematics
820 Coe College - Cedar Rapids: Mathematics
835 Dordt College - Sioux Center: Mathematics
840 Drake University - Des Moines: Mathematics
850 Graceland College - Lamoni: Mathematics
855 Grandview College - Des Moines: Mathematics
860 Grinnell College - Grinnell: Mathematics
991 Iowa State University - Ames: Mathematics
865 Iowa Wesleyan College - Mount Pleasant: Mathematics
870 Loras College - Dubuque: Mathematics
875 Luther College - Decorah: Mathematics
890 Morningside College - Sioux City: Mathematics
895 Mount Mercy College - Cedar Rapids: Mathematics
905 Northwestern College - Orange City: Mathematics
915 Saint Ambrose College - Davenport: Mathematics
920 Simpson College - Indianola: Mathematics
925 University of Dubuque - Dubuque: Mathematics

993 University of Iowa - Iowa City: Mathematics
995 University of Northern Iowa - Cedar Falls: Mathematics
935 Upper Iowa University - Fayette: Mathematics
950 Wartburg College - Waverly: Mathematics
960 Westmar College - Le Mars: Mathematics
865 William Penn College - Oskaloosa: Mathematics



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ACTUARIAL SCIENCES

CISI NO. 5002

GROUP: 5000's - MATHEMATICS

- Actuarial Sciences Programs include the study of the application of mathematics, probability and statistics in the insurance field. The statistics are used to calculate premiums, reserves and dividends. The length of the program is four years.
- Course work for the Actuarial Sciences Programs combines intensive study of mathematics with instruction in business economics and liberal arts. Graduates should be able to pass the first four of the ten actuarial examinations. These ten examinations must be passed to earn a professional designation of 'fellow of the society of actuaries'.
- Internships are required for graduation. They are arranged during summer or other vacation periods.
- Courses which would be helpful in preparing for Actuarial Sciences Programs include mathematics and statistics.
- CISI occupations commonly entered by graduates include:
 - 1615 Actuary
 - 1635 Insurance Underwriter
- Two Iowa schools have reported programs in Actuarial Sciences.

- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

840 Drake University - Des Moines

Actuarial Sciences, four years

880 Maharishi International Univ. - Fairfield:

Mathmatics

993 University of Iowa - Iowa City

Actuarial Science, four years



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STATISTICS

CISI NO. 5005

GROUP: 5000's - MATHEMATICS

- Statistics Programs include the study of probability models (ratio of the number of outcomes). They also cover the science of collecting, describing and interpreting numerical data. The program length is four years.
- Course work for Statistics Programs may include:

Design and Analysis of Experiments
Statistical Methods
Statistical Theory
Sample Surveys
Computing

- Internships may be arranged. Students may specialize in such areas as biometrics or actuarial science. Students may minor in areas in which statistics are used. These areas may include economics, geography, psychology, biological science, engineering, business and health science.
- Courses which would be helpful in preparing for Statistics Programs include mathematics.
- CISI occupations commonly entered by graduates include:

1615 Actuary

2166 Researcher
2331 Statistician

- Related military occupations include:

23310 Operations Analysts

- Two Iowa schools have reported programs in Statistics.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

991 Iowa State University - Ames: Statistics, four years
993 University of Iowa - Iowa City: Statistics, four years



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MULTI/INTERDISCIPLINARY STUDIES

CISI NO. 5301

GROUP: 5300's - MULTI/INTERDISCIPLINARY STUDIES

- Multi/Interdisciplinary Programs include a combination of one or more subject areas. A specialization which draws from one specific subject area is usually included. The program length is four years. Many students use them as preparation for graduate study or professional training.
- Course work for Multi/Interdisciplinary Programs could include any college subject areas, depending upon the areas of interest of the individual student.
- Students will take courses from various subject areas, specializing in an area of their choice. General liberal arts courses are also a part of the curriculum. Some schools offer opportunities for off-campus research and/or work experiences.
- Courses which would be helpful in preparing for Multi/ Interdisciplinary Programs are a general college preparation curriculum.
- CISI occupations commonly entered by graduates include:
 - 8455 Elementary Teacher
 - 8456 Secondary Teacher
 - 8454 University/College Teacher

- Related military occupations include:

84540 Teachers and Instructors

- Nine Iowa schools have reported programs in Multi/ Interdisciplinary areas.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

820 Coe College - Cedar Rapids

General Science, four years

Humanities, four years

830 Divine Word College - Epworth

General Science Major, four years

835 Dordt College - Sioux Center

Natural Sciences, four years

850 Graceland College - Lamoni

Science/Basic, four years

International Studies, four years

855 Grandview College - Des Moines

General Science, two years

905 Northwestern College - Orange City

Behavioral Sciences, four years

Humanities, four years

925 University of Dubuque - Dubuque

Science/General, four years

995 University of Northern Iowa - Cedar Falls

Science, four years

Humanities, four years

960 Westmar College - Le Mars

Natural Science, four years



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PARKS AND RECREATION MANAGEMENT

CISI NO. 5503

GROUP: 5500's - PARKS AND RECREATION

- Parks and Recreation Management Programs include the study of planning and maintenance of recreational facilities and programs for public and private agencies. The program length varies from one year to four years. Most graduates of shorter programs transfer to four-year institutions to complete their education.

- Course work for Parks and Recreation Management Programs may include:

Camping/Outdoor Education
Recreation and Park Agencies
Fundamentals of Recreation
Recreation Leadership
Games and Activities
Program Planning
Social Recreation

Officiating
Arts and Crafts
Swimming
First Aid
Health
Sports

- Some programs offer students the opportunity to specialize in areas of their choice such as indoor activities directing or camp directing. Off-campus practical experiences are available in many programs.
- Courses which would be helpful in preparing for Parks and Recreation Management Programs include physical education, sociology and biology.

- CISI occupations commonly entered by graduates include:

8487 Recreation Program Worker

- Eight Iowa schools have reported programs in Parks and Recreation Management.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

705 Des Moines Area Community College - Ankeny:
Leisure Studies, Recreational Leadership, two years
Leisure Studies, Wholistic Wellness, two years

730 Iowa Lakes Community College - Estherville:
Recreational Specialist, two years

735 Iowa Valley Community College - Marshalltown
Recreation Specialist, one year or two years

COLLEGES AND UNIVERSITIES

850 Graceland College - Lamoni
Recreation and Outdoor Education, four years

991 Iowa State University - Ames
Leisure Studies, four years

890 Morningside College - Sioux City
Recreation Management, four years

993 University of Iowa - Iowa City

Recreation Education Program, four years

995 University of Northern Iowa - Cedar Falls

Community Recreation major, four years

965 William Penn College - Oskaloosa

Recreation, four years



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PHILOSOPHY

CISI NO. 6501

GROUP: 6500's - PHILOSOPHY AND RELIGION

- Philosophy Programs include the study of the basic truths and principles of being, knowledge and conduct in such fields as ethics and logic. The program length is four years in all programs. Many students use philosophy programs as preparation for seminary or law school.

- Course work for Philosophy Programs may include:

Philosophy of Religion	Pragmatism
Political Philosophy	Metaphysics
Social Philosophy	Marxism
Modern Philosophy	Religions
Ancient Philosophy	Ethics
Doctrines of Man	Logic
Existentialism	

- Many schools offer opportunities for off-campus study programs. These may be out of state or in foreign countries. Some programs offer students an opportunity to specialize in a particular branch of philosophy.
- Courses which would be helpful in preparing for Philosophy Programs include history, English, speech and art.

- CISI occupations commonly entered by graduates include:

2177 Technical Writer
8454 University/College Teacher
84540 Teachers and Instructors

- Related military occupations include:

84540 Teachers and Instructors

- Nineteen Iowa schools have reported programs in Religion.

- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

810 Central College - Pella: Philosophy
820 Coe College - Cedar Rapids: Philosophy
830 Divine Word College - Epworth: Philosophy
835 Dordt College - Sioux City: Philosophy
840 Drake University - Des Moines: Philosophy
850 Graceland College - Lamoni: Philosophy and Religion
860 Grinnell College - Grinnell: Philosophy
991 Iowa State University - Ames: Philosophy
870 Loras College - Dubuque: Philosophy
875 Luther College - Decorah: Philosophy
890 Morningside College - Sioux City: Philosophy
905 Northwestern College - Orange City: Philosophy

915 Saint Ambrose College - Davenport: Philosophy

920 Simpson College - Indianola: Philosophy

925 University of Dubuque - Dubuque

Philosophy and Religious Studies

993 University of Iowa - Iowa City: Philosophy

995 University of Northern Iowa - Cedar Falls: Philosophy

950 Wartburg College - Waverly: Philosophy

960 Westmar College - Le Mars: Philosophy



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RELIGION

CISI NO. 6502

GROUP: 6500's - PHILOSOPHY AND RELIGION

- Religion Programs include the study of the origin, history, forms, worship, beliefs and practices of specific religions. The program length is four years. After graduation many students continue to graduate school or the seminary.
- Course work for Religion Programs may include:

Comparative Religion	Judaism
Biblical Studies	Buddhism
Christianity	Logic
Scriptures	Islam
Hinduism	
- Some programs allow students to specialize in areas such as biblical studies or comparative religion. Off-campus work and study experiences, including many in foreign countries, are available at some schools.
- Courses which would be helpful in preparing for Religion Programs include history, art, science, English and speech.
- CISI occupations commonly entered by graduates include:

8488 Community Organization Worker
8414 Counselor

8417 Social Worker
8454 University/College Teacher

- Related military occupations include:

84540 Teachers and Instructors
84140 Caseworkers and Counselors
84270 Social Workers

- Nineteen Iowa schools have reported programs in Religion.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

800 Briar Cliff College -Sioux City: Theology and Philosophy
805 Buena Vista College -Storm Lake: Religion and Philosophy
820 Coe College - Cedar Rapids: Religion
835 Dordt College - Sioux Center: Theology
850 Graceland College - Lamoni: Religious Studies
860 Grinnell College - Grinnell: Religious Studies
991 Iowa State University - Ames: Religious Studies
870 Loras College - Dubuque: Religious Studies
875 Luther College - Decorah: Religion
890 Morningside College - Sioux City: Religious Studies
895 Mount Mercy College - Cedar Rapids: Religious Studies
905 Northwestern College - Orange City: Religion
915 Saint Ambrose College - Davenport: Theology

920 Simpson College - Indianola: Religion

993 University of Iowa - Iowa City: Religion

995 University of Northern Iowa - Cedar Falls
Philosophy and Religion
Religion

950 Wartburg College - Waverly: Religion

960 Westmar College - Le Mars: Religion

965 William Penn College - Oskaloosa: Religion



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BIBLE STUDIES

CISI NO. 6602

GROUP: 6600's - THEOLOGY

- Bible Studies Programs include the study of the history, languages and interpretation used in the Bible. The program length is four years. Many graduates enter a seminary.
- Course work for the Bible Studies Programs may include general liberal arts courses. Students may concentrate in pastoral work, Christian education, missions or music and communications.
- Opportunities are available for practical off-campus work studies. Some overseas study programs are available.
- CISI occupations commonly entered by graduates include:
 - 8449 Child Day Care Worker
 - 8436 Clergy
 - 8455 Elementary Teacher
 - 8457 Preschool Teacher
 - 8456 Secondary Teacher
 - 8453 Specialty Instructor
 - 8454 University/College Teacher
- Related military occupations include:
 - 84361 Religious Workers
 - 84360 Chaplains

84540 Teachers and Instructors

- Two Iowa schools have reported programs in Bible Studies.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

845 Faith Baptist Seminary - Ankeny

Bible Studies, four years

940 Vennard College - University Park

Biblical Studies (English Bible)



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MISSIONARY STUDIES

CISI NO. 6603

GROUP: 6600's - THEOLOGY

- Missionary Studies Programs intend to prepare students to administer to the religious needs of people. The program includes a course of sermons and services given to convert the unchurched or quicken Christian faith. Lengths of the programs vary from two to four years. Graduates of two year programs often transfer to pursue a technical degree for use in their mission work.

- Course work for Missionary Studies Programs may include:

Missionary Practices	Evangelism
Non-Christian Religions	Sociology
Foreign Language	Religion
World Missions	Bible
Anthropology	Cults

- Courses which would be helpful in preparing for Missionary Studies Programs include English, typing and foreign language.

- CISI occupations commonly entered by graduates include:

8436 Clergy

- Related military occupations include:

84361 Religious Workers

84360 Chaplains

- Three Iowa schools have reported programs in Missionary Studies.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

830 Divine Word College - Epworth

Mission Preparedness, two years

845 Faith Baptist Theological Seminary - Ankeny

Missions, four years

905 Northwestern College - Orange City

Mission Service, four years



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RELIGIOUS EDUCATION

CISI NO. 6604

GROUP: 6600's - THEOLOGY

- Religious Education Programs include the study of the theory, methods and techniques of designing, implementing and evaluating organized learning activities in religion. The program length varies from two to four years. Graduates of the two-year programs often transfer to four year institutions to complete their education.
- Course work for Religious Education Programs may include:

Educational Administration	Audio Visual
Child Growth and Development	Psychology
Curriculum Development	Sociology
Educational Psychology	Education
Curriculum Materials	

- Many programs include a practicum or other off-campus work experiences.
- Courses which would be helpful in preparing for Religious Education Programs include typing and English.
- CISI occupations commonly entered by graduates include:

8449 Child Day Care Worker
8455 Elementary Teacher
8457 Preschool Teacher

8456 Secondary Teacher
8453 Specialty Instructor
8454 University/College Teacher

- Related military occupations include:

84540 Teachers and Instructors

- Four Iowa schools have reported programs in Religious Education.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

800 Briar Cliff College - Sioux City

Pastoral Ministries, two or four years

845 Faith Baptist Theological Seminary - Ankeny:

Christian School Education, four years

Local Church Ministries, four years

905 Northwestern College - Orange City

Christian Education, four years

960 Westmar College - Le Mars

Christian Education, four years



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RELIGIOUS MUSIC

CISI NO. 6605

GROUP: 6600's - THEOLOGY

- Religious Music Programs include the study of the history, theory, composition and performance of music for religious or sacred purposes. The program length varies from two to four years.

- Course work for Religious Music Programs may include:

Youth and Children's Choirs
Church Music Literature
Service Playing
Chants and Liturgies

Conducting
Hymnology
Organ

- Courses which would be helpful in preparing for Religious Music Programs include music.

- CISI occupations commonly entered by graduates include:

No specific occupations were reported.

- Three Iowa schools have reported programs in Religious Music.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

840 Drake University - Des Moines

Church Music, four years

845 Faith Baptist Theological Seminary - Ankeny

Sacred Music, four years

905 Northwestern College - Orange City

Church Music, four years



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THEOLOGICAL STUDIES

CISI NO. 6606

GROUP: 6600's - THEOLOGY

- Theological Studies Programs include the study of the relationship of theology to the practice of ministry and all associated areas. The program length varies from two years to five years. Many graduates of the two year program enter the lay ministry in addition to some other occupations.

- Course work for Theological Studies Programs may include:

Church Administration
Christian Education
Bible Doctrine
Counseling
Evangelism
Psychology
Preaching

Religions
Ethics
Hebrew
Music
Bible
Greek

- Internships are included in some programs. Some programs specialize in various aspects of ministry.
- CISI occupations commonly entered by graduates include:

8436 Clergy
8414 Counselor

- Related military occupations include:

84361 Religious Worker
84360 Chaplains
84140 Caseworkers and Counselors

- Three Iowa schools have reported programs in Theological Studies.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

845 Faith Baptist Theological Seminary - Ankeny:

Basic Bible Program
Master of Divinity, two years
Pastoral Training, four years to five years

905 Northwestern College - Orange City:

Theater in Christian Ministries, four years

955 Wartburg Theological Seminary - Dubuque

Theology, four years



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CHEMISTRY

CISI NO. 6705

GROUP: 6700's - PHYSICAL SCIENCES

- Chemistry Programs include the study of the micro and macro structure of matter. Also included are the changes that matter undergoes, the energy involved in these changes and the laws that describe the happenings. The length of the programs is four years. Many students completing chemistry programs continue their education in graduate school.

- Course work for Chemistry Programs may include:

Analytical Chemistry
Inorganic Chemistry
Physical Chemistry
Qualitative Analysis

Biochemistry
Mathematics
Physics
Organic Chemistry

- Many schools offer off-campus work experiences in nationally prominent laboratories. Students may specialize in one particular aspect of chemistry.
- Courses which would be helpful in preparing for Chemistry Programs include mathematics, chemistry and physics.
- CISI occupations commonly entered by graduates include:

2625 Chemist
2693 Laboratory Tester

2624 Physical Scientist
8456 Secondary Teacher
8454 University/College Teacher

- Related military occupations include:

26250 Chemists
26930 Fuel and Chemical Lab Technicians
84540 Teachers and Instructors

- Twenty-four Iowa schools have reported programs in Chemistry.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

800 Briar Cliff College - Sioux City: Chemistry
805 Buena Vista College - Storm Lake: Chemistry
810 Central College - Pella: Chemistry
815 Clarke College - Dubuque: Chemistry
820 Coe College - Cedar Rapids: Chemistry
835 Dordt College - Sioux Center: Chemistry
840 Drake University - Des Moines: Chemistry
850 Graceland College - Lamoni: Chemistry
860 Grinnell College - Grinnell: Chemistry
991 Iowa State University - Ames: Chemistry
865 Iowa Wesleyan College - Mount Pleasant: Chemistry,
870 Loras College - Dubuque: Chemistry

875 Luther College - Decorah: Chemistry
880 Maharishi International U. - Fairfield: Chemistry
890 Morningside College - Sioux City: Chemistry
905 Northwestern College - Orange City: Chemistry
915 Saint Ambrose College - Davenport: Chemistry
920 Simpson College - Indianola: Chemistry and Physics
925 University of Dubuque - Dubuque: Chemistry
993 University of Iowa - Iowa City: Chemistry
995 University of Northern Iowa - Cedar Falls:
Chemistry/BS
Chemistry/BA
950 Wartburg College - Waverly: Chemistry
960 Westmar College - Le Mars: Chemistry
965 William Penn College - Oskaloosa: Chemistry



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GEOLOGY

CISI NO. 6712

GROUP: 6700's - PHYSICAL SCIENCES

- Geology Programs include the study of the earth. Areas covered include the composition, structure, history and changes of the planet. The program length is four years.

- Course work for Geology Programs may include:

Sedimentary Petrology
Metaphoric Petrology
Vertebrate Evolution
Structural Geology
Optical Mineralogy
Igneous Petrology
Economic Geology

Physical Geology
Paleontology
Mineralogy
Mathematics
Chemistry
Physics

- Field experiences are required in some programs. Opportunities for these field experiences are available in state, out of state and in other countries.
- Courses which would be helpful in preparing for Geology Programs include chemistry, mathematics and physics.
- CISI occupations commonly entered by graduates include:

2635 Geologist
2624 Physical Scientist

- Related military occupations include:

26350 Oceanographers
26314 Environmental Analysts

- Three Iowa schools have reported programs in Geology.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

991 Iowa State University - Ames: Geology
993 University of Iowa - Iowa City: Geology
995 University of Northern Iowa - Cedar Falls
Geology, BA or BS



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METALLURGY

CISI NO. 6717

GROUP: 6700's - PHYSICAL SCIENCES

- Metallurgy Programs include the study of the chemical and physical properties of metal. The program length is four years.
- Course work for Metallurgy includes a concentration in chemistry and physics in addition to metallurgy courses.
- Cooperative programs and other off-campus practical experiences are available.
- Courses which would be helpful in preparing for Metallurgy Programs include chemistry, physics and mathematics.
- CISI occupations commonly entered by graduates include:
 - 2426 Engineer
 - 2624 Physical Scientist
 - 2166 Researcher
- One Iowa school has reported a program in Metallurgy.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

991 Iowa State University - Ames
Metallurgy and Metallurgical Engineering



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EARTH SCIENCE

CISI NO. 6719

GROUP: 6700's - PHYSICAL SCIENCES

- Earth Science Programs include the study of the inter-relations of various physical sciences as applied to our planet and solar system. The program length is four years.

- Course work for Earth Science Programs may include:

Environmental Studies
Land Use Planning
Meteorology
Mathematics

Chemistry
Astronomy
Geology
Physics

- Students may specialize in one or more particular areas of Planetary Science. Off-campus field camps are available as part of the programs.
- Courses which would be helpful in preparing for Earth Science Programs include science and mathematics.
- CISI occupations commonly entered by graduates include:

2693 Laboratory Tester
2624 Physical Scientist
8456 Secondary Teacher
8454 University/College Teacher

- Related military occupations include:

26930 Fuel and Chemical Lab Technicians
84540 Teachers and Instructors

- Four Iowa schools have reported programs in Earth Science.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

991 Iowa State University - Ames: Earth Science
920 Simpson College - Indianola: Earth Science
925 University of Dubuque - Dubuque: Earth Science
995 University of Northern Iowa - Cedar Falls: Earth Sci





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PHYSICS

CISI NO. 6720

GROUP: 6700's - PHYSICAL SCIENCES

- Physics Programs include the study of the physical properties and interactions of matter and energy. Areas included are equilibrium, power, wave phenomena, mechanics, heat, electricity, magnetism, sound, light and spatial relativity. The program length is four years.

- Course work for Physics Programs may include:

Quantum Mechanics
Electromagnetism
Nuclear Physics
Thermodynamics
Atomic Physics
Vector Analysis

Astrophysics
Electronics
Geophysics
Astronomy
Calculus
Optics

- Opportunities for off-campus study and work experiences are included in some programs. Additionally, some programs offer off-campus laboratory experiences in some of the nationally known physics laboratories.
- Courses which would be helpful in preparing for Physics Programs include mathematics, chemistry and physics.
- CISI occupations commonly entered by graduates include:

2693 Laboratory Tester

2624 Physical Scientist
2166 Researcher
8456 Secondary Teacher
8454 University/College Teacher

- Related military occupations include:

26930 Fuel and Chemical Lab Technicians
26240 Physicists
84540 Teachers and Instructors

- Sixteen Iowa schools have reported programs in Physics.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

805 Buena Vista College - Storm Lake: Physics/Mathematics
810 Central College - Pella: Physics
820 Coe College - Cedar Rapids: Physics
835 Dordt College - Sioux Center: Physics
840 Drake University - Des Moines: Physics/Astronomy
860 Grinnell College - Grinnell: Physics
991 Iowa State University - Ames: Physics
870 Loras College - Dubuque: Physics
875 Luther College - Decorah: Physics/Engineering
880 Maharishi International Univ. - Fairfield: Physics
890 Morningside College - Sioux City: Physics

915 Saint Ambrose College - Davenport: Engineering Physics

920 Simpson College - Indianola: Chemistry and Physics

925 University of Dubuque - Dubuque: Physics

993 University of Iowa - Iowa City: Physics

995 University of Northern Iowa - Cedar Falls

Physics (Applied, BA, or BS)

950 Wartburg College - Waverly: Physics



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BIOLOGICAL LABORATORY TECHNOLOGY

CISI NO. 6802

GROUP: 6800's - SCIENCE TECHNOLOGIES

- Biological Laboratory Technology is an instructional programs that prepares individuals to support biological technological labs, whether they be it academic, commercial, governmental; and/or to assist teachers in biological-science classrooms or laboratory situations. It includes instruction in the preparation or processing of biological specimens and/or samples for biological research; including techniques for genetic-engineering, tissue culture, cytogenetics, cytology, antibodies, biochemistry, microbiology and toxicology. The length of the program is one to two years.
- Course work for Biological Laboratory Technology may include:

Botany
Fundamentals of Chemistry
Genetics
Genetic Engineering
Analytical Instrumentation
English Composition
Cytology and Cytogenetics
Laboratory Tech Seminars
Microbiology

Tissue Culture
Virology
Immunology
Toxicology
Human Genetics
Current Biotechnology
Intro to Data Processing
Coop Field Experience

- Cooperative Field Experience is included as a part of the program to provide learning experiences in a work setting.

- Course work which would be helpful in preparing for Biological Laboratory Technology include: Biology, Botany, Zoology, Chemistry, Algebra, Introductory Computer, and Statistics.

- CISI occupations commonly entered by graduates include:

7425 Agricultural Supplies Salesperson
2693 Laboratory Tester
2673 Quality Control Technician
5946 Wastewater Plant Operator

- One Iowa school reported offering Biological Laboratory Technology.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

735 Iowa Valley Community College - Ellsworth
Bio-technology, one year
Genetic Engineering, two years



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SECURITY SERVICES

CISI NO. 7009

GROUP: 7000's - PROTECTIVE SERVICES

- Security Services Programs intend to prepare individuals to protect private property to prevent thievery, malicious damage, and dishonesty among employees. Attention is given to patrol protection and electronic and computer security systems. Programs also intend to give students an understanding of Laws pertaining to evidence and arrest. Programs are two years in length, however, one is designed as a transfer program and offers the upper two years (Junior and Senior). Many graduates of two year lower level programs do transfer to pursue a Bachelor's degree.
- Course work for Security Services Programs may include:

Criminal Law	Security Surveys
Criminology	Rules of Evidence
Industrial Security	Community Relations
Retail Security	Fire Protection
Security Systems	Personnel Investigation
- Practicums and field experiences are included in most programs.
- Courses which would be helpful in preparing for Security Services Programs include sociology, psychology, and English.

- CISI occupations commonly entered by graduates include:

9476 Security Guard

- Related military occupations include:

94760 Security Officers

- Two Iowa schools have reported programs in Security Services.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

715 Hawkeye Institute of Technology - Waterloo:
Security and Loss Prevention, two years

COLLEGES AND UNIVERSITIES

950 Wartburg College - Waverly
Security Administration, two years (upper two)





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FIRE CONTROL AND SAFETY TECHNOLOGY

CISI NO. 7011

GROUP: 7000's - PROTECTIVE SERVICES

- Fire Control and Safety Technology Programs intend to prepare individuals to serve as fire fighters and as fire prevention and safety specialists. The length of the program is two years. Many graduates transfer to four year institutions to complete a Bachelor's degree.
- Course work for Fire Control and Safety Technology Programs may include:

Fire Protection Admin.
Industrial Fire Protection
Building Design for Safety
Fire Protection Systems
Hazardous Materials

Fire Investigations
Fire Behavior
Fluid Flows
Fire Science
Tactics

- Practical Work Experiences are included.
- Courses which would be helpful in preparing for Fire Control and Safety Technology Programs include English, social studies, chemistry, mathematics and biology.
- CISI occupations commonly entered by graduates:
- CISI occupations commonly entered by graduates include:

9426 Fire Fighter

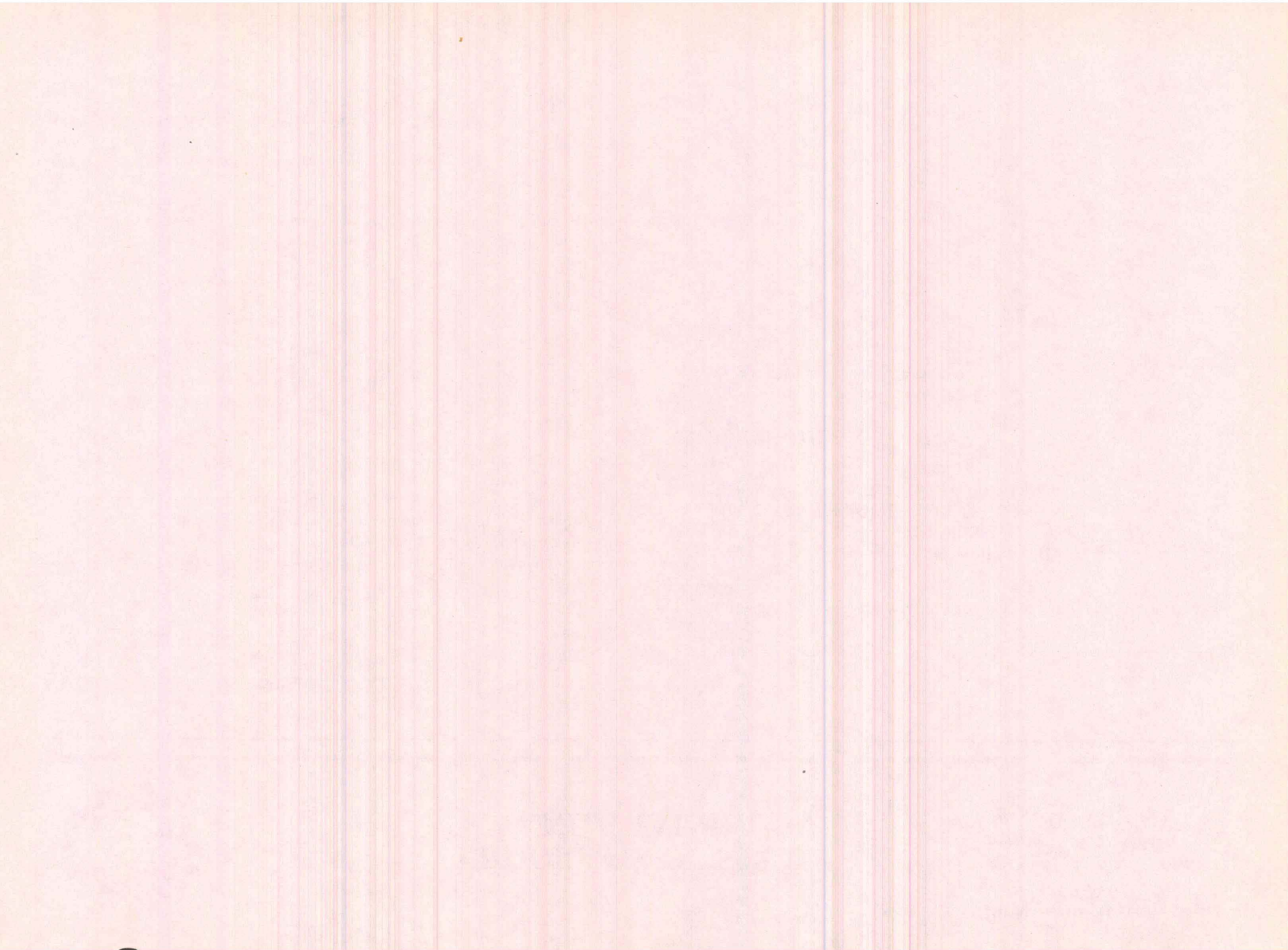
- Related military occupations include:

94260 Fire Fighters

- One Iowa school has reported a program in Fire Control and Safety Technology.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

705 Des Moines Area Community College - Ankeny:
Fire Science Technology, two years





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COMMUNITY SERVICES

CISI NO. 7202

GROUP: 7200's - PUBLIC AFFAIRS

- Community Services Programs include the study of combining community resources to provide information, instruction, recreation and services to all members of a community. The program length varies from two to four years. The four-year program includes more liberal arts courses and specializes in one area of community service. Many graduates of two-year programs transfer to four-year colleges to complete a Bachelor's degree.

- Course work for Community Services Programs may include:

Methods	Public Hygiene
Community Organization	Psychology
Consumer Education	Sociology
Human Relations	Government
Group Leadership	Community Politics
Public Administration	Statistics

- Practical field experiences are included in most programs.
- Courses which would be helpful in preparing for Community Services Programs include psychology, sociology and history.
- CISI occupations commonly entered by graduates include:

8449 Child Day Care Worker

8488 Community Organization Worker
8158 Home Attendant
8417 Social Worker

- Related military occupations include:

84170 Social Workers

- Eight Iowa schools have reported programs in Community Services.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

705 Des Moines Area Community College - Ankeny:

Human Services Associate, two years

725 Iowa Central Community College - Fort Dodge:

Community Services Program, two years

735 Iowa Valley Community College - Marshalltown

Community Services, one or two years

740 Iowa Western Community Coll. - Council Bluffs

Human Services Associate, two years

745 Kirkwood Community College - Cedar Rapids:

Human Services, two years

COLLEGES AND UNIVERSITIES

991 Iowa State University - Ames

Child, Parent and Community Services, four years

Community Services Education, four years

995 University of Northern Iowa - Cedar Falls

Community Health Education, four years

945 Waldorf College - Forest City

Community Services, two years



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PUBLIC ADMINISTRATION

CISI NO. 7204

GROUP: 7200's - PUBLIC AFFAIRS

- Public Administration Programs include the study of the knowledge, skills, values and behaviors involved in making public policies and managing public services. The program length is four years. Many students continue on to graduate school after completing these programs.

- Course work for Public Administration Programs may include:

Political Science
Mathematics
Management
Accounting

Economics
History
Sociology
Law

- Internships and other off-campus experiences are included in these programs.
- Courses which would be helpful in preparing for Public Administration Programs include history, mathematics and other social sciences.
- CISI occupations commonly entered by graduates include:

1138 Public Administrator/Official

- Related military occupations include:

11001 Management Analysts
11381 Postal Directors

- Five Iowa schools have reported programs in Public Administration.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

840 Drake University - Des Moines: Public Administration

991 Iowa State University - Ames

Public Service and Administration in Agriculture

905 Northwestern College - Orange City

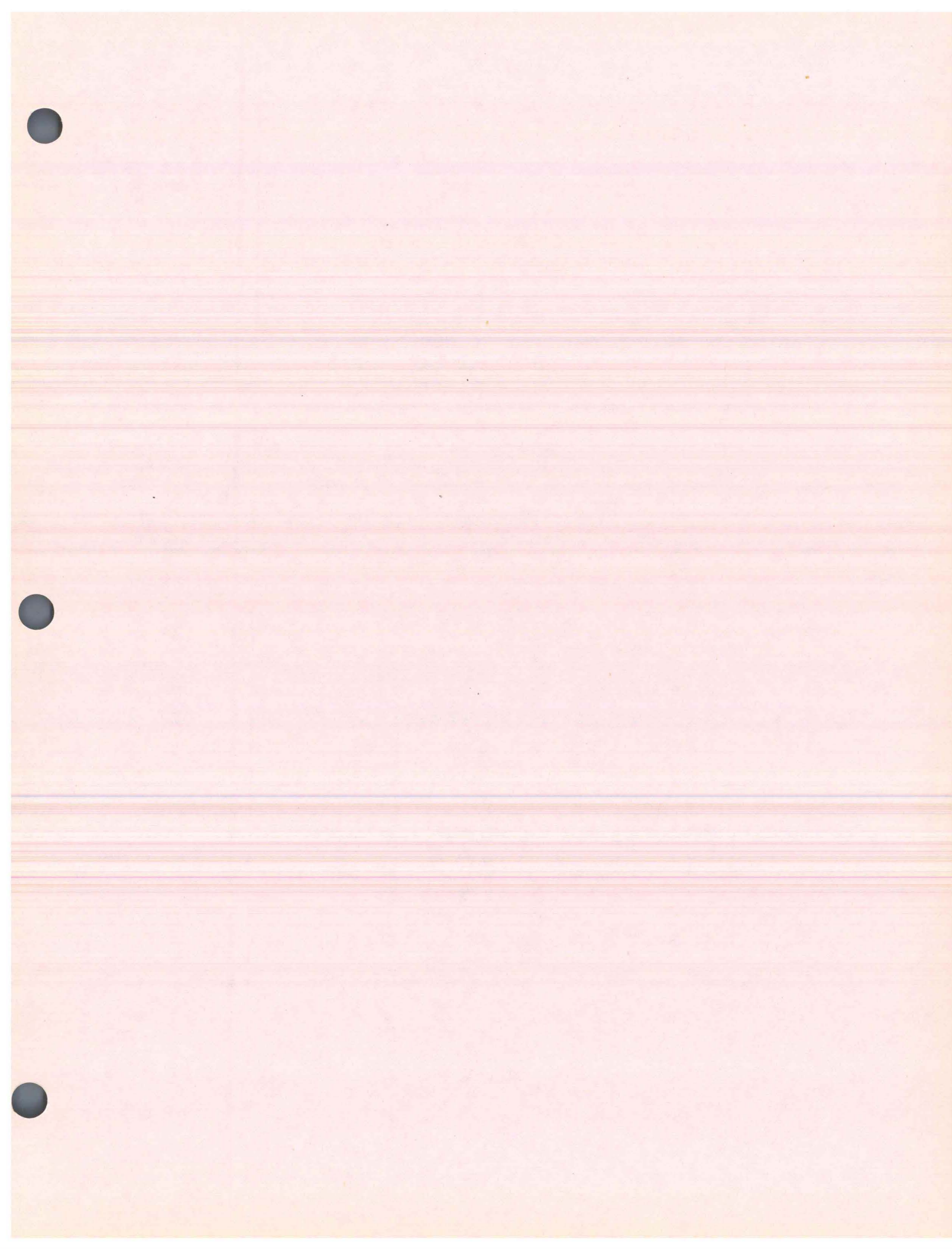
Public Administration

915 Saint Ambrose College - Davenport

Public Administration

995 University of Northern Iowa - Cedar Falls

Public Administration





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ANTHROPOLOGY

CISI NO. 7302

GROUP: 7300's - SOCIAL SCIENCES

- Anthropology Programs include the study of the historic and prehistoric human origins, physical and cultural development, racial characteristics, social customs and beliefs. The program length is four years. Many students completing Anthropology Programs continue their education in graduate school.
- Course work for Anthropology Programs may include:

Cultural Anthropology	Ethnology
Archaeology	Sociology
Psychology	Geography
Linguistics	Zoology
Evolution	Geology
- Opportunities for off-campus internships are available in most programs. Many of these experiences are international in nature. Students may choose to specialize in certain areas of anthropology such as physical anthropology, socio-cultural anthropology, archaeology, linguistic anthropology and museum study.
- Courses which would be helpful in preparing for Anthropology include social studies, biology, psychology, history, English and mathematics.

- CISI occupations commonly entered by graduates include:

2166 Researcher
8456 Secondary Teacher
8454 University/College Teacher

- Related military occupations include:

84540 Teachers and Instructors

- Five Iowa schools have reported programs in Anthropology.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

860 Grinnell College - Grinnell: Anthropology
991 Iowa State University - Ames: Anthropology
875 Luther College - Decorah: Anthropology
993 University of Iowa - Iowa City: Anthropology
995 University of Northern Iowa - Cedar Falls: Anthropology



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ECONOMICS

CISI NO. 7306

GROUP: 7300's - SOCIAL SCIENCES

- Economics Programs include the study of changing resources into goods, services and the distribution and consumption of these goods and services. Economists do not study the methods of producing and distributing goods and services. Their attention is focused on other factors affecting those operations such as supply and demand. The program length is four years. Many students who complete an Economics program continue their education in graduate school. Many use Economics as a firm background for entering the business world or public service.

- Course work for Economics programs may include:

Micro and Macro Theories
International Economics
Economic Problems
Money and Credit

Labor Economics
Urban Economics
Public Finance

- Internships are included in many programs. Particular aspects of Economics, such as business or political science, may be stressed.
- Courses which would be helpful in preparing for Economics Programs include social studies and mathematics.

- CISI occupations commonly entered by graduates include:

1683 Credit Manager
2146 Economist
1138 Public Administrator/Official
8456 Secondary Teacher
7415 Securities/Commodities Salesperson
8454 University/College Teacher

- Related military occupations include:

84540 Teachers and Instructors
11381 Postal Directors
11001 Management Analysts
21441 Attaches

- Nineteen Iowa schools have reported programs in Economics.

- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

805 Buena Vista College - Storm Lake: Economics
810 Central College - Pella: Economics
820 Coe College - Cedar Rapids: Economics
840 Drake University - Des Moines: Economics
850 Graceland College - Lamoni: Economics
860 Grinnell College - Grinnell: Economics

991 Iowa State University - Ames
Economics (Science and Humanities)
870 Loras College - Dubuque: Economics
875 Luther College - Decorah: Economics
890 Morningside College - Sioux City: Economics
905 Northwestern College - Sioux Center: Economics
915 Saint Ambrose College - Davenport
Economics and Business Administration
920 Simpson College - Indianola: Economics
925 University of Dubuque - Dubuque: Economics
993 University of Iowa - Iowa City: Economics
995 University of Northern Iowa - Cedar Falls: Economics,
950 Wartburg College - Waverly: Economics
960 Westmar College - Le Mars: Economics
965 William Penn College - Oskaloosa: Economics



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GEOGRAPHY

CISI NO. 7307

GROUP: 7300's - SOCIAL SCIENCES

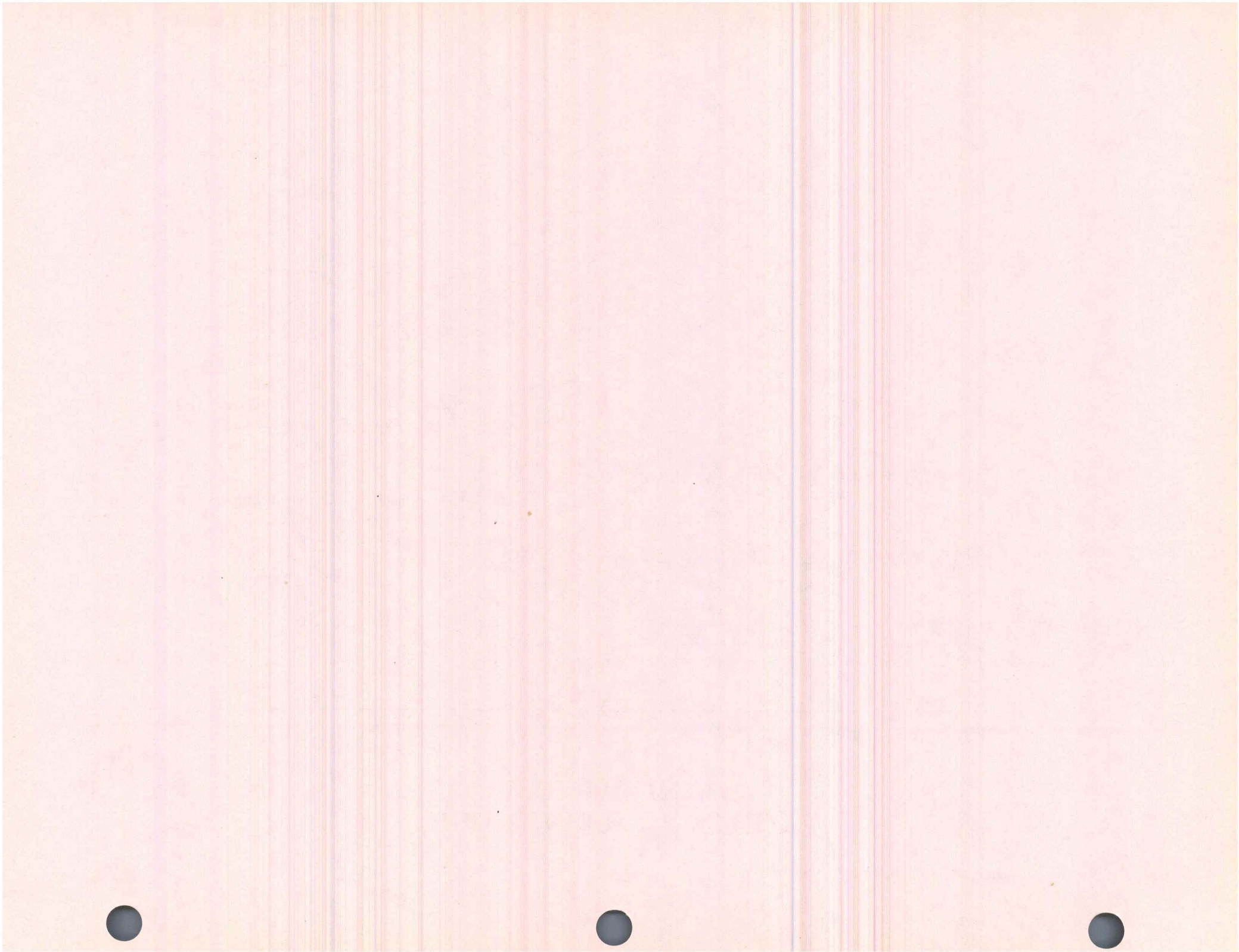
- Geography Programs include the study of the earth and the life upon it. Focus is upon the description of the land, sea and air and the distribution of plant and animal life on earth. The program length is four years.
- Course work for Geography Programs involve studying the cultural make-up, resources and physical description of geographic areas. Particular courses may relate these aspects to areas such as South America, Europe, Africa, etc. The opportunity for off-campus study, often in foreign countries, is available.
- Courses which would be helpful in preparing for Geography Programs include social studies.
- CISI occupations commonly entered by graduates include:
 - 2624 Physical Scientist
 - 8456 Secondary Teacher
 - 8454 University/College Teacher
- Related military occupations include:
 - 84540 Teachers and Instructors
- Two Iowa schools have reported programs in Geography.

- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

993 University of Iowa - Iowa City:
Geography

995 University of Northern Iowa - Cedar Falls
Geography





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HISTORY

CISI NO. 7308

GROUP: 7300's - SOCIAL SCIENCES

- History Programs include the study of the past. Historians record, gather, criticize, and interpret evidence about past events. The program length is four years. Students who complete history programs often continue onto graduate school. Many students use History Programs as preparation for entering business, politics of government service.

- Course work for History Programs involves studying the historical development of particular areas of the world. Such areas include:

Latin America
United States
Near East
Greece
Rome

Afro-America
Soviet Union
China
Japan

- Students also take courses such as western civilization and American diplomacy. Opportunities for internships both in the United States and in foreign countries are available in many schools.
- Courses which would be helpful in preparing for History Programs include English and social studies.

- CISI occupations commonly entered by graduates include:

2166 Researcher
8456 Secondary Teacher
2177 Technical Writer
8454 University/College Teacher

- Related military occupations include:

84540 Teachers and Instructors

- Twenty-four Iowa schools have reported programs in History.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

800 Briar Cliff College - Sioux City: History
805 Buena Vista College - Storm Lake: History
810 Central College - Pella: History
815 Clarke College - Dubuque: History
820 Coe College - Cedar Rapids: History
835 Dordt College - Sioux Center: History
840 Drake University - Des Moines: History
850 Graceland College - Lamoni
History and Political Science
860 Grinnell College - Grinnell: History
991 Iowa State University - Ames: History

870 Loras College - Dubuque: History
875 Luther College - Decorah: History
885 Marycrest College - Davenport: History
890 Morningside College - Sioux City: History
895 Mount Mercy College - Cedar Rapids: History
905 Northwestern College - Orange City: History
915 Saint Ambrose College - Davenport: History
920 Simpson College - Indianola: History
925 University of Dubuque - Dubuque: History
993 University of Iowa - Iowa City: History
995 University of Northern Iowa - Cedar Falls
History/ Liberal Arts
950 Wartburg College - Waverly: History
960 Westmar College - Le Mars: Cultural Science: History
965 William Penn College - Oskaloosa: History



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POLITICAL SCIENCE AND GOVERNMENT

CISI NO. 7310

GROUP: 7300's - SOCIAL SCIENCES

- Political Science and Government Programs include the study of the description and analysis of political institutions and processes. This includes the origin, development, geographical units, forms, sources of authority, powers, purposes, function and methods of operations of government. The program length is four years. After completing Political Science Programs many students continue on to graduate schools, especially law school.
- Course work for Political Science and Government Programs may include:

Politics of Emerging Nations	Executive Politics
American Foreign Policy	Political Theories
Latin American Politics	American Politics
International Politics	Judicial Politics
Legislative Politics	Mexican Politics
Political Philosophy	
- Most schools offer legislative internships. Many schools offer opportunities for foreign study.
- Courses which would be helpful in preparing for Political Science and Government Programs include history and English.

- CISI occupations commonly entered by graduates include:

2134 Political Scientist
2173 Reporter
8456 Secondary Teacher
8454 University/College Teacher

- Related military occupations include:

84540 Teachers and Instructors
21730 Reporters and Newswriters
21441 Attaches

- Twenty-one Iowa schools have reported programs in Political Science and Government.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

805 Buena Vista College -Storm Lake:

International Politics
Political Science
Political-Econ Systems

810 Central College - Pella: Political Science

815 Clarke College - Dubuque: Political Science

820 Coe College - Cedar Rapids: Political Science

835 Dordt College - Sioux Center: Political Science

840 Drake University - Des Moines: Political Science
855 Grandview College -Des Moines: Political Science Studies
860 Grinnell College - Grinnell: Political Science
870 Loras College - Dubuque: Political Science
875 Luther College - Decorah: Political Science
880 Maharishi International Univ. - Fairfield: Government
890 Morningside College - Sioux City: Political Sci/History
895 Mount Mercy College - Cedar Rapids: Political Science
905 Northwestern College - Orange City: Political Science
915 Saint Ambrose College - Davenport: Political Science
920 Simpson College - Indianola: Political Science
925 University of Dubuque - Dubuque: Political Science
993 University of Iowa - Iowa City: Political Science
995 University of Northern Iowa - Cedar Falls: Political Sci
950 Wartburg College - Waverly: Political Science



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SOCIOLOGY

CISI NO. 7311

GROUP: 7300's - SOCIAL SCIENCES

- Sociology Programs include the study of the human society, social institutions and social relationships. Programs include the study of the development, purpose, structure and function of human groups. The program lengths are four years. Many students use Sociology Programs as general preparation for business.

- Course work for Sociology Programs may include:

Sociology of Education
Marriage & the Family
Individual & Society
Minority Relations
Utopian Communities
Population Problems

Sociological Theory
Political Science
Community Studies
Women & Society
Urban Society
Criminology

- Many schools offer practical field experiences. Settings for some of these experiences are in foreign countries.
- Courses which would be helpful in preparing for Sociology Programs include social studies, English and speech.
- CISI occupations commonly entered by graduates include:

8488 Community Organization Worker
8414 Counselor

1186 Personnel Administrator
8422 Probation Officer
1138 Public Administrator/Official
2173 Reporter
8456 Secondary Teacher
8417 Social Worker
2145 Sociologist
8454 University/College Teacher
8428 Welfare Aide

- Related military occupations include:

84140 Caseworkers and Counselors
11381 Postal Directors
11001 Management Analysts
11864 Equal Opportunity Program Managers
11862 Recruiting Specialists
11863 Recruiting Managers
21730 Reporters and Newswriters
84540 Teachers and Instructors
84170 Social Workers
21441 Attaches

- Twenty-four Iowa schools have reported programs in Sociology.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

- 800 Briar Cliff College** - Sioux City: Sociology
- 805 Buena Vista College** - Storm Lake: Sociology
- 810 Central College** - Pella: Sociology & Anthropology
- 815 Clarke College** - Dubuque: Sociology
- 820 Coe College** - Cedar Rapids: Sociology
- 830 Divine Word College** - Epworth: Sociology
- 835 Dordt College** - Sioux Center: Sociology
- 840 Drake University** - Des Moines: Sociology
- 850 Graceland College** - Lamoni: Sociology
- 860 Grinnell College** - Grinnell: Sociology
- 991 Iowa State University** - Ames
 - Sociology
 - International Studies
- 865 Iowa Wesleyan College** - Mount Pleasant: Sociology,
- 870 Loras College** - Dubuque: Sociology & Social Work
- 875 Luther College** - Decorah: Sociology
- 890 Morningside College** - Sioux City: Sociology
- 895 Mount Mercy College** - Cedar Rapids: Sociology
- 905 Northwestern College** - Orange City: Sociology
- 915 Saint Ambrose College** - Davenport: Sociology
- 920 Simpson College** - Indianola: Sociology
- 925 University of Dubuque** - Dubuque: Sociology
- 993 University of Iowa** - Iowa City: Sociology
- 995 University of Northern Iowa** - Cedar Falls
 - Sociology - Liberal Arts
- 950 Wartburg College** - Waverly: Sociology
- 960 Westmar College** - Le Mars: Sociology
- 965 William Penn College** - Oskaloosa: Sociology



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URBAN STUDIES

CISI NO. 7312

GROUP: 7300's - SOCIAL SCIENCES

- Urban Studies Programs include the study of the history, society, politics, culture and economics of urban areas. The program length is four years.

- Course work for the Urban Studies Programs may include:

Political Science
Psychology
Economics

Geography
Sociology

- Students will also take a series of courses from other departments. Off-campus practical experiences are available.
- Courses which would be helpful in preparing for Urban Studies Programs include mathematics, social studies and English.
- CISI occupations commonly entered by graduates include:

8488 Community Organization Worker
1138 Public Administrator/Official
8417 Social Worker

- Related military occupations include:

11001 Management Analysts

11381 Postal Directors
84170 Social Workers

- One Iowa school has reported a program in Urban Studies.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

810 Central College - Pella: Urban Studies





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BRICK, BLOCK AND STONEMASONRY

CISI NO. 7502

GROUP: 7500's - CONSTRUCTION TRADES

- Brick, Block and Stonemasonry Programs intend to prepare individuals to lay bricks and/or blocks. Instruction may include vertical and horizontal alignment, cutting, notching and shaping, terra-cotta, veneer, glass and stone. The program length is 44 weeks.
- Course work for Brick, Block and Stonemasonry Programs may include:

First Aid Procedures
Business Principles
Blueprint Reading
Brick Laying
Block Laying

Concrete Work
Estimating
Stone Work
Mathematics
Welding

- Off-campus cooperative work experiences are included in some programs. All programs include a great deal of hands-on practical work.
- Courses which would be helpful in preparing for Brick, Block and Stonemasonry Programs include mathematics and industrial arts.
- CISI occupations commonly entered by graduates include:

4264 Bricklayer
4246 Concrete Mason
4286 Construction Worker

4247 Stone Mason
4249 Tile Setter

- Related military occupations include:

42460 Bricklayers and Concrete Masons
42860 Combat Engineers
42861 Blasting Specialists

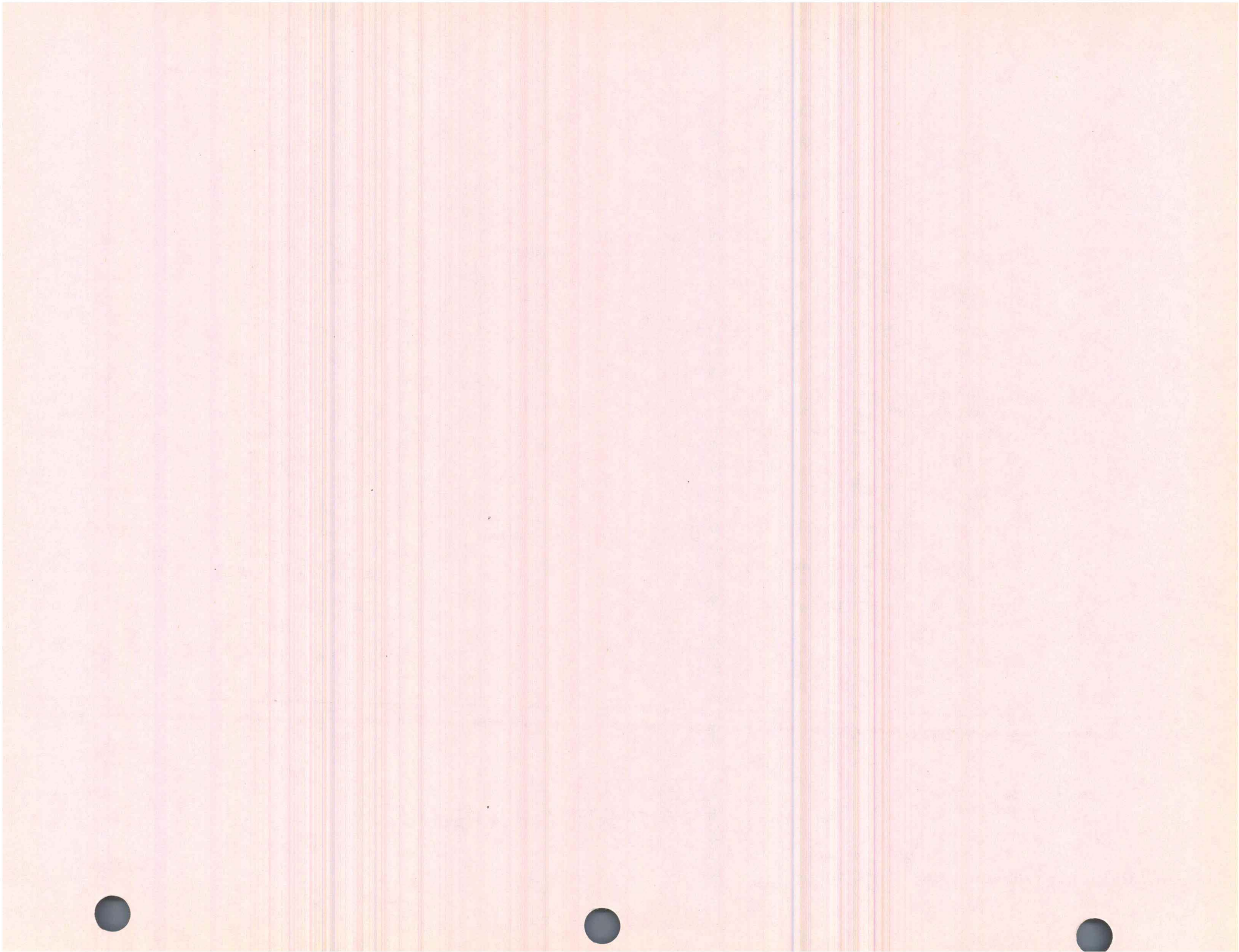
- Two Iowa schools have reported a program in Brick, Block and Stonemasonry.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

SPECIALIZED SCHOOLS

620 Job Corps - Denison: Bricklayer, one year

AREA SCHOOLS

735 Iowa Valley Community College - Iowa Falls
Masonry, 44 weeks





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CARPENTRY

CISI NO. 7505

GROUP: 7500's - CONSTRUCTION TRADES

- Carpentry Programs intend to prepare students to lay out, build, install and repair wooden structures and fixtures. The program length is one year.
- Course work for Carpentry Programs may include:

Construction Principles	Estimating
Allied Building Trades	Mathematics
Foundations & Forms	Stairways
Blueprint Reading	Cabinetry
Exterior Covering	Drafting
Carpentry Theory	Framing
Carpenter Skills	Roofs
Wall Covering	
- While the primary focus of these programs is on carpentry skills, instruction is presented in allied building trades. Allied trades include such things as electrician, bricklayer, plumber, etc. Graduates may get employment in many construction areas in addition to carpentry. Most schools provide practical experience to students by the actual construction of a house during the program.
- Courses which would be helpful in preparing for Carpentry Programs include mathematics and industrial arts.

- CISI occupations commonly entered by graduates include:

3422 Building Maintenance Worker
4586 Cabinetmaker
4254 Carpenter
4286 Construction Worker
4243 Dry Wall Installer/Finisher
4276 Floor Covering Installer
3142 Millwright
4224 Paperhanger
4278 Roofer
4277 Siding Applicator

- Related military occupations include:

42540 Carpenters
42860 Combat Engineers
42861 Blasting Specialists

- Eleven Iowa schools have reported programs in Carpentry.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

SPECIALIZED SCHOOLS

620 Job Corps - Denison: Carpenter, one year

AREA SCHOOLS

- 705 Des Moines Area Community College** - Ankeny:
Building Trades, three terms
- 720 Indian Hills Community College** - Ottumwa
Building Trades, twelve months
- 725 Iowa Central Community College** - Fort Dodge:
Carpentry, one year
- 730 Iowa Lakes Community College** - Emmetsburg:
Carpentry, four quarters
- 735 Iowa Valley Community College** - Iowa Falls
Carpentry, 44 weeks
- 745 Kirkwood Community College** - Cedar Rapids:
Building Trades
Construction Technology six, quarters
- 755 Northeast Iowa Technical Institute** -
Peosta: Carpentry, four quarters
Calmar: Carpentry, four quarters
- 760 Northwest Iowa Technical College** - Sheldon:
Carpentry, four quarters
- 770 Southwestern Community College** - Creston:
Carpentry & Building Trades, 62 weeks
- 775 Western Iowa Technical Comm. Coll.** - Ida Grove
Carpentry, four quarters



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ELECTRICIAN

CISI NO. 7507

GROUP: 7500's - CONSTRUCTION TRADES

- Electrician Programs intend to prepare individuals to install, operate, maintain and repair electrical systems for residential, commercial and industrial systems. Often included are the principles of electric motors and controls. The program length varies from three quarters to one year.

- Course work for Electrician Programs may include:

National Electrical Code
Alternating Current Lab
Electrical Principles
Industrial Relations
Business Principles
Direct Current Lab

Residential Wiring
Commercial Wiring
Blueprint Reading
Motors & Controls
Estimating
First Aid

- Some programs provide practical experience for students by actually wiring homes which the school is building.
- Courses which would be helpful in preparing for Electrician Programs include mathematics and industrial arts.
- CISI occupations commonly entered by graduates include:

5626 Electrician

- Related military occupations include:

56263 Ship Electricians
56261 Aircraft Electricians
56262 Power Plant Electricians
56009 Space Systems Specialists
56260 Electrical Products Repairers
56264 Building Electricians

- Four Iowa schools have reported programs in Electrician.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

755 Northeast Iowa Technical Institute - Calmar:

Commercial/Residential Electrician, three quarters
Industrial Electrician, six quarters

760 Northwest Iowa Technical College - Sheldon:

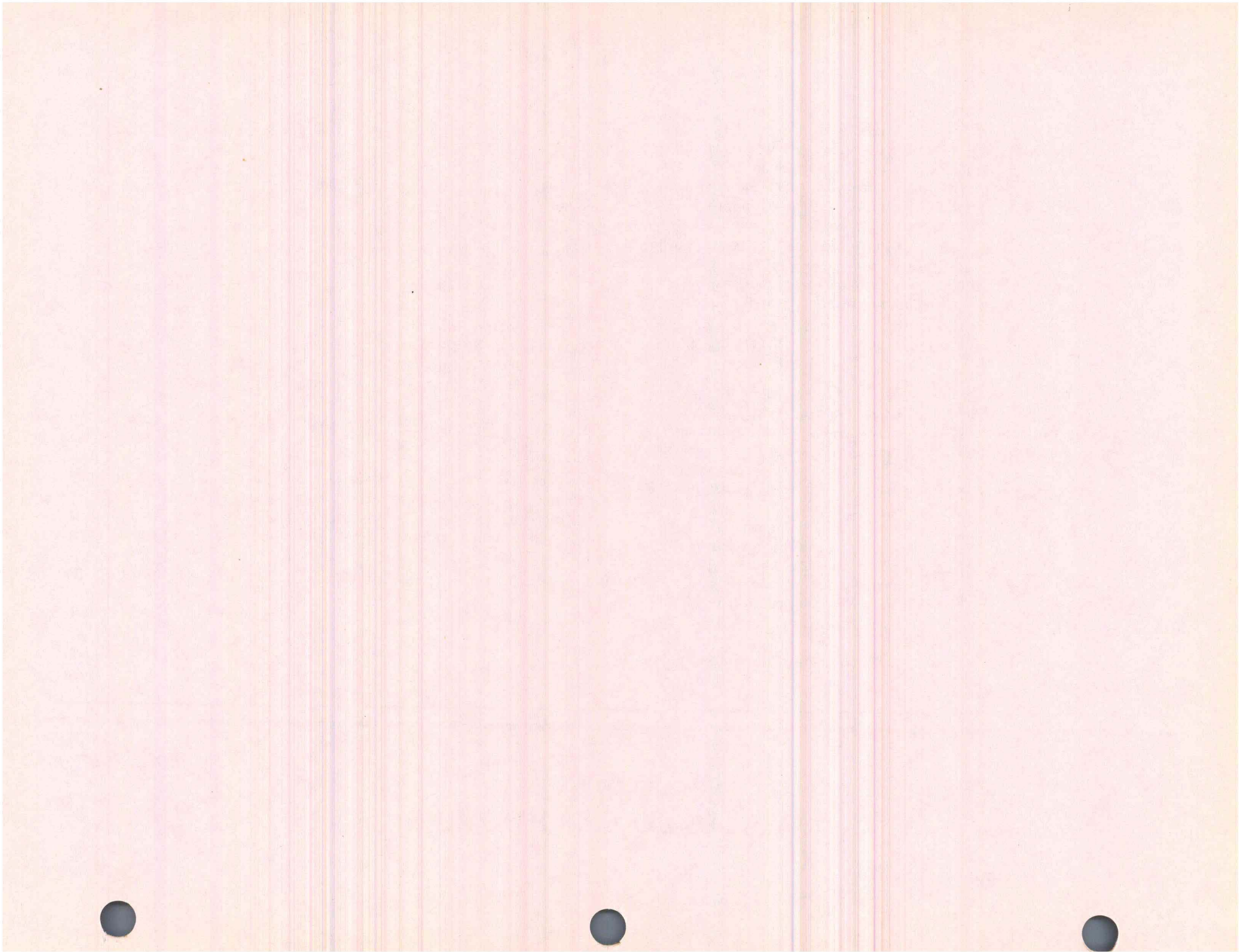
Residential/Commercial Electrician, four quarters
Industrial Electrician, seven quarters

770 Southwestern Community College - Creston:

Electrician Training, two semesters

775 Western Iowa Technical Comm. Coll. - Mapleton

Electrician, four quarters





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LINE WORKER

CISI NO. 7508

GROUP: 7500's - CONSTRUCTION TRADES

- Line Worker Programs intend to prepare individuals to install, operate and maintain telephone and electrical lines. This includes the construction and erection of tower lines and the installation of underground lines. The program length is four quarters.

- Course work for the Line Worker Programs may include:

Systems and Maps
Underground Distribution
Job Safety & First Aid
Line Maintenance & Repair
Industrial Relations
Motors & Controls

Three Phase Theory
Instrumentation
Electrical Math
DC Laboratory
AC Theory
Rigging

- Course work is presented in classroom settings and in practical field experiences.
- Courses which would be helpful in preparing for Line Worker Programs include mathematics, English and industrial arts.
- CISI occupations commonly entered by graduates include:

3165 Cable Installer/Repairer
5624 Lineperson
3166 Telephone Equipment Installer

- Related military occupations include:

56240 Line Installers and Repairers
31660 Telephone Technicians

- One Iowa school has reported a program in Line Worker.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

760 Northwest Iowa Technical College - Sheldon:
Powerline Installer, four quarters





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BUILDING MAINTENANCE

CISI NO. 7510

GROUP: 7500's - CONSTRUCTION TRADES

- Building Maintenance Programs intend to prepare individuals to maintain, operate and repair equipment in commercial buildings. Maintenance includes that of the building itself and frequently the lawns and grounds. Types of commercial buildings may include office buildings, manufacturing plants, retail stores and apartment houses. The program length varies from three and four quarters.

- Course work for Building Maintenance Programs may include:

Equipment & Materials
Stationary Boilers
Operational Tasks
Motors & Controls
Valves & Faucets
Lawns & Grounds

Trade History
Electricity
Hand Tools
Purchasing
Doorware
Plumbing

- Courses which would be helpful in preparing for Building Maintenance Programs include mathematics, industrial arts and science.
- CISI occupations commonly entered by graduates include:

3422 Building Maintenance Worker
1158 Building Manager/Superintendent
3455 Custodian
4143 Groundskeeper

4145 Park Custodian

- Four Iowa schools have reported programs in Building Maintenance.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

SPECIALIZED SCHOOLS

620 Job Corps - Denison:
Building & Apartment Maintenance

AREA SCHOOLS

740 Iowa Western Community College - Council Bluffs
Building Maintenance, two quarters

760 Northwest Iowa Technical College - Sheldon:
Buildings & Grounds Supervisor, four quarters

775 Western Iowa Technical Comm. Coll. - Sioux City
Building Maint. & Stationary Engineer, three qtr



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PAINTING AND DECORATING

CISI NO. 7518

GROUP: 7500's - CONSTRUCTION TRADES

- Painting and Decorating programs intend to prepare individuals to finish interior and exterior surfaces by applying decorative or protective coating materials. These materials include paint, laquer and wallpaper. Surface preparation, mixing and matching colors and methods of application are also covered. The program length is one year.
- Course work for Painting and Decorating is provided in a hands on setting.
- Courses which would be helpful in preparing for Painting and Decorating include industrial arts.
- CISI occupations commonly entered by graduates include:

4242 Painter
- One Iowa school has reported a program in Painting and Decorating.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

SPECIALIZED SCHOOLS

620 Job Corps - Denison: Painter, one year





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PLUMBING/PIPEFITTING AND STEAMFITTING

CISI NO. 7522

GROUP: 7500's - CONSTRUCTION TRADES

- Plumbing/Pipefitting and Steamfitting Programs intend to prepare individuals to layout, assemble, install and maintain plumbing fixtures and pipes. Also included would be equipment for steam, hot water, heating, cooling, lubricating, sprinkling and industrial processing systems. In addition to plumbing skills, programs also cover heating and cooling principles. The program length varies from four to five quarters.

- Course work for Plumbing/Pipefitting and Steamfitting Programs may include:

Principles of Air Cond.
Small Business Management
Plumbing & Heating
Solar Heating/Cooling
Blueprint Reading
Pattern Drafting
Unit Servicing
Plumbing Skills
Sheet Metal

Boiler Systems
Building Codes
Heat Loss/Gain
Refrigeration
Mathematics
Estimating
Sanitation
Layout

- Courses which would be helpful in preparing for Plumbing/ Pipefitting and Steamfitting Programs include math, science and industrial arts.

- CISI occupations commonly entered by graduates include:

3146 Heating/Cooling Mechanic
4274 Plumber/Pipefitter

- Related military occupations include:

31460 Heating and Cooling Mechanics
42740 Plumbers and Pipefitters

- Two Iowa schools have reported programs in Plumbing/ Pipefitting and Steamfitting.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

SPECIALIZED SCHOOLS

620 Job Corps - Denison: Plumbing, one year

AREA SCHOOLS

755 Northeast Iowa Technical Institute - Calmar:
Plumbing & Heating, four quarters

775 Western Iowa Technical Comm. Coll. - Sioux City
Heating, Sheetmetal and Plumbing, four qtrs





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COMMUNICATIONS ELECTRONICS

CISI NO. 7603

GROUP: 7600's - MECHANICS AND REPAIRERS

- Communications Electronics Programs intend to prepare individuals to assemble, install, operate, maintain, and repair communication systems and equipment. This equipment includes radio, television, hearing aids and other electronics devices. The program length varies from two semesters to two full years.

- Course work for Communications Electronics Programs may include:

Service and Sales Management
Solid-State Devices
Electronic Circuits
Electronic Theory
Trouble Shooting
Transistor Theory
Customer Relations

Function Analysis
Circuit Analysis
Test Equipment
Video Signal
Mathematics
Schematics
FM Systems

- On-the-job training experiences are included in some programs.
- Courses which would be helpful in preparing for Communications Electronics Programs include mathematics, industrial arts and physics.
- CISI occupations commonly entered by graduates include:

3163 Central Office Repairer

2461 Electronics Technician
3168 TV/Radio Repairer

- Related military occupations include:

56680 Electronic Instrument Repairers
31682 Teletype Repairers
56009 Space Systems Specialists
56681 Electronic Weapons Systems Repairers
31681 Radar and Sonar Equipment Repairers
31680 Radio Equipment Repairers

- Six Iowa schools have reported programs in Communications Electronics.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

705 Des Moines Area Community College - Ankeny:

Electronics Maintenance, two years
Telephony, three terms

715 Hawkeye Institute of Technology - Waterloo:

Electronics Service Technology, four quarters

725 Iowa Central Community College - Fort Dodge:

Telecommunications, two years

745 Kirkwood Community College - Cedar Rapids:

Communication Electronics

770 Southwestern Community College - Creston:

Radio and Television Repair, one year

775 Western Iowa Technical Comm. Coll. - Sioux City

Electronic Communications, four quarters

Electronic Systems Maintenance



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COMPUTER ELECTRONICS

CISI NO. 7604

GROUP: 7600's - MECHANICS AND REPAIRERS

- Computer Electronics Programs intend to prepare individuals to assemble, install, operate, maintain and repair computers and digital control instruments. The length of the program is 18 months or two years.
- Course work for Computer Electronics Programs may include:

Technical Mathematics	Computer Logic
Computer Fundamentals	Power Supplies
Computer Programming	Electricity
Computer Circuitry	Drafting
Electromechanics	Physics
Test Instruments	
- Courses which would be helpful in preparing for Computer Electronics Programs include mathematics, physics and industrial arts.
- CISI occupations commonly entered by graduates include:

2461 Electronics Technician
- Related military occupations include:

56680 Electronic Instrument Repairers
31682 Teletype Repairers

56009 Space Systems Specialists

- Four Iowa schools have reported a program in Computer Electronics.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

705 Des Moines Area Community College

Computer Technology, two years

720 Indian Hills Community College - Ottumwa:

Computer Maintenance Technology, eighteen months

755 Northeast Iowa Technical Institute - Calmar

Computer Technology - 72 weeks

760 Northwest Iowa Technical College - Sheldon

Computer Systems Maintenance, 96 weeks



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INDUSTRIAL ELECTRONICS

CISI NO. 7605

GROUP: 7600's - MECHANICS AND REPAIRERS

- Industrial Electronics Programs intend to prepare individuals to assemble, install, operate, maintain and repair electrical/electronic equipment. Types of equipment include:

Power Supplies	Amplifiers
Motors	Controls
Computer Circuitry	Servo-mechanisms
Power Systems	Hydraulic Systems
Control Circuitry	

- Course work for Industrial Electronics Programs may include:

Technical Mathematics	Computer Logic
Power Supplies	Electricity
Drafting	Electromechanics
Physics	Test Instruments
Equipment & Materials	

- Courses which would be helpful in preparing for Industrial Electronics includes mathematics, industrial arts and science.

- CISI occupations commonly entered by graduates include:

2461 Electronics Technician
2451 Engineering Technician

2375 Industrial Engineer
3144 Industrial Maintenance Mechanic
3186 Instrument Mechanic/Technician
2673 Quality Control Technician

- Three Iowa schools have reported a program in Industrial Electronics.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

745 Kirkwood Community College - Cedar Rapids:

Electrical Equipment Servicing

750 North Iowa Area Community College - Mason City

Industrial Electronics, two years

Industrial Maintenance Electrician, 11 months

755 Northeast Iowa Technical College - Calmar

Industrial Electronics, six quarters





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SMALL APPLIANCE REPAIR

CISI NO. 7608

GROUP: 7600's - MECHANICS AND REPAIRERS

- Small Appliance Repair Programs intend to prepare individuals to repair, maintain and service small household appliances. The program length is one year or self paced in a correspondence course.
- Course work for Small Appliance Repair may include:

Mathematics	Repair
Business Techniques	Shop Practices
Electricity	Schematics
- Courses which would be helpful in preparing for Small Appliance Repair Programs include mechanics.
- CISI occupations commonly entered by graduates include:

3169 Appliance Repair
3147 Electric Motor Repairer
- Two Iowa schools have reported programs in Small Appliance Repair.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

SPECIALIZED SCHOOLS

625 Gresslin Correspondence School of Sewing Machine
and Vacuum Cleaner Repair - Spencer
Sewing Machine and Vacuum Cleaner Repair

AREA SCHOOLS

720 Indian Hills Community College - Ottumwa:
Appliance Repair, nine months





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HEATING AND AIR CONDITIONING

CISI NO. 7611

GROUP: 7600's - MECHANICS AND REPAIRERS

- Heating and Air Conditioning Programs intend to prepare individuals to install, operate, test, repair and maintain commercial and domestic heating and air conditioning systems. The program length is one year.
- Course work for Heating and Air Conditioning Programs may include:

Air Conditioning Controls
Manufacturing Processes
Blueprint Reading
Trouble Shooting
Business Management
Air Distribution
Refrigeration

Heat Loss/Gain
Mathematics
Electricity
Estimating
Sheet Metal
Physics

- Courses which would be helpful in preparing for Heating and Air Conditioning Programs include mathematics and industrial arts.
- CISI occupations commonly entered by graduates include:

3146 Heating/Cooling Mechanic
- Related military occupations include:

31460 Heating and Cooling Mechanics

- Eight Iowa schools have reported programs in Heating and Air Conditioning.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

705 Des Moines Area Community College - Ankeny:
Conditioned Air, three terms

710 Eastern Iowa Community College - Bettendorf
Air Conditioning and Refrigeration, one year

715 Hawkeye Institute of Technology - Waterloo:
Heating and Air Conditioning, four quarters

750 North Iowa Area Community College - Mason City
Climate Control Mechanics, 11 months

755 Northeast Iowa Technical Institute - Peosta:
Heating and Air Conditioning, four quarters

760 Northwest Iowa Technical College - Sheldon:
Mechanical Construction Trades Technician, 60 weeks
Mechanical Construction Trades Specialist, 96 weeks

765 Southeastern Community Coll. - Keokuk & West Burlington
Heating, Air Conditioning and Refrigeration, two semesters plus one summer term

775 Western Iowa Technical Comm. Coll. - Sioux City
Air Conditioning, Heating & Refrigeration, four qtr





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INDUSTRIAL MACHINERY MAINTENANCE AND REPAIR

CISI NO. 7617

GROUP: 7600's - MECHANICS AND REPAIRERS

- Industrial Machinery Maintenance and Repair Programs intend to prepare individuals to repair and maintain industrial machinery and equipment. This machinery and equipment includes cranes, pumps, engines and motors. The length of the program is four quarters.
- Course work for the Industrial Machinery Maintenance and Repair Programs may include:

Basic Components	Machine Repairers
Lubricants & Preservatives	Blueprint Reading
Fundamentals of Pneumatics	Hydraulics
Machine Processes	Welding
Electrical Repair	
- Courses which would be helpful in preparing for Industrial Machinery Maintenance and Repair Programs include drafting, mathematics, machine shop and English.
- CISI occupations commonly entered by graduates include:
 - 3147 Electric Motor Repairer
 - 3145 Forklift Mechanic
 - 3114 Heavy Equipment Mechanic
 - 3144 Industrial Maintenance Mechanic

- Related military occupations include:

61009 Aircraft Launch/Recovery Specialist

- Three Iowa schools have reported programs in Industrial Machinery Maintenance and Repair.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

- 710 Eastern Iowa Community College** - Muscatine:
Industrial Technology
- 715 Hawkeye Institute of Technology** - Waterloo:
Industrial Service Technician, four quarters
- 745 Kirkwood Community College** - Cedar Rapids:
Industrial Maintenance, four quarters



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GUNSMITHING

CISI NO. 7622

GROUP: 7600's - MECHANICS AND REPAIRERS

- Gunsmithing Programs intend to prepare students to repair and modify firearms according to blueprints or customer specifications. Gunsmiths may be required to design new firearms. The program may include the use of specialized hand tools and machines. The length of the program is two years.

- Course work for Gunsmithing Programs may include:

Small Business Management	Hand Loading
Polishing and Bluing	Stock Making
Conversion of Firearms	Ballistics
Checkering and Carving	Hardening
Gun Repair Shop	Firearms
Machine Shop	Welding

- Courses which would be helpful in preparing for Gunsmithing Programs include machine shop and mathematics.

- CISI occupations commonly entered by graduates include:

No CISI occupations were reported.

- One Iowa school has reported a program in Gunsmithing.

- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

765 Southeastern Community College - West Burlington:
Gunsmithing and Gun Repair, two years





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MUSICAL INSTRUMENT REPAIR

CISI NO. 7624

GROUP: 7600's - MECHANICS AND REPAIRERS

- Musical Instrument Repair Programs intend to prepare individuals to maintain, repair and tune acoustical and electrical musical instruments. The program may include techniques of cleaning and methods of tuning specific musical instruments. The length of the programs is four quarters.

- Course work for Musical Instrument Repair Programs may include:

Overhaul and Repair
Business Procedures
Fundamentals of Playing

Refinishing
Rebuilding
Tuning

- Courses which would be helpful in preparing for Musical Instrument Repair Programs include industrial arts and music.
- CISI occupations commonly entered by graduates include:

3188 Musical Instrument Repairer
- One Iowa school has reported a program in Musical Instrument Repair.

- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

775 Western Iowa Technical Comm. Coll. - Sioux City:

Band Instrument Repair, four quarters

Band Instrument Repair Technology, four quarters

Piano Tuning and Repair, four quarters





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AUTOMOTIVE BODY REPAIR

CISI NO. 7637

GROUP: 7600's - MECHANICS AND REPAIRERS

- Automotive Body Repair Programs intend to prepare individuals to rebuild and repair automobiles and related vehicles. Instruction is given in body preparation for painting and finishing. The length of the program varies from three to four quarters. The shorter program concentrates on body repair. Longer programs cover repair of more parts and systems on the car.

- Course work for Automotive Body Repair may include:

Trim and Hardware Repairs
Front End Alignment
Business Operations
New Car Preparation
Electrical Systems
Glass Replacement
Air Conditioning
Panel Replacement

Frame Repair
Body Repair
Estimating
Mathematics
Painting
Welding
Brakes

- Some courses are presented in classroom settings. However, the build of instruction is presented in a body shop setting.
- Courses which would be helpful in preparing for Automotive Body Repair Programs include industrial arts, auto mechanics and welding.

- CISI occupations commonly entered by graduates include:

5486 Auto Body Repairer
3124 Automobile Services Attendant
1632 Claim Adjuster

- Related military occupations include:

54860 Automotive Body Repairers

- Eleven Iowa schools have reported programs in Automotive Body Repair.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

705 Des Moines Area Community College - Ankeny:

Automotive Collision Repair, three terms

710 Eastern Iowa Community College - Bettendorf

Auto Body Repair, one year

715 Hawkeye Institute of Technology - Waterloo:

Automobile Body Repair, four quarters

720 Indian Hills Community College - Ottumwa:

Auto Body Repair, twelve months

730 Iowa Lakes Community College - Emmetsburg:

Auto Body Repair, four quarters

745 Kirkwood Community College - Cedar Rapids:

Automotive Collision Repair, four quarters

755 Northeast Iowa Technical Institute - Calmar:

Auto Body, four quarters

760 Northwest Iowa Technical College - Sheldon:

Auto Body, four quarters

765 Southeastern Community Coll. - West Burlington

Auto Body Repair Program, one year

770 Southwestern Community College - Creston:

Auto Body Repair, two semesters

775 Western Iowa Technical Comm. Coll. - Sioux City

Auto Body Repairman, four quarters



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AUTOMOTIVE MECHANICS

CISI NO. 7638

GROUP: 7600's - MECHANICS AND REPAIRERS

- Automotive Mechanics Programs intend to prepare individuals to service and maintain all types of automobiles. The program includes adjustment and repair of individual components and systems such as radiators, transmissions and carburetors. The program length varies from two to seven quarters. Shorter programs emphasize areas such as tune ups and preventive maintenance. Longer programs involve repair and maintenance of all automotive systems.

- Course work for Automotive Mechanics Programs may include:

Emission Control Systems
Electrical Systems
Service Management
Ignition Systems
Vehicle Inspection
Air Conditioning
Transmissions

Drive Trains
Fluid Power
Mathematics
Suspension
Tune Up
Welding
Brakes

- Courses which would be helpful in preparing for Automotive Mechanics Programs include industrial arts, auto mechanics, science and mathematics.

- CISI occupations commonly entered by graduates include:

3112 Auto Mechanic

3124 Automobile Services Attendant
3121 Motorcycle Mechanic
3118 Small Engine Mechanic

- Related military occupations include:

31120 Automobile Mechanics
31141 Engine Mechanics

- Fourteen Iowa schools have reported programs in Automotive Mechanics.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

SPECIALIZED SCHOOLS

660 Lincoln Technical Institute - West Des Moines: Automotive - Diesel Truck Technology, 25 weeks or 50 weeks

AREA SCHOOLS

705 Des Moines Area Community College - Ankeny:
Auto Mechanics Technology, three terms
Automotive Engineering- Tune-up

710 Eastern Iowa Community College - Bettendorf
Auto Mechanics, one and 1/2 years

- 715 Hawkeye Institute of Technology** - Waterloo:
Automobile Mechanics, four quarters
- 725 Iowa Central Community College** - Fort Dodge:
Auto Mechanics, four semesters
- 730 Iowa Lakes Community College** - Emmetsburg:
Automotive Mechanics, six quarters
- 740 Iowa Western Community Coll.** - Council Bluffs
Automotive Service, two quarters
Auto Mechanics, four quarters
- 745 Kirkwood Community College** - Cedar Rapids:
Automotive Technology, four quarters
- 750 North Iowa Area Community College** - Mason City
Automotive Service, one semester or two years
- 755 Northeast Iowa Technical Institute** -
Calmar: Automotive Technology, six quarters
Peosta: Automotive Mechanics, three quarters
- 760 Northwest Iowa Technical College** - Sheldon:
Automotive Technician, five quarters
- 765 Southeastern Community Coll.** - West Burlington
Auto Mechanics Program, four semesters
- 770 Southwestern Community College** - Creston:
Auto Mechanics, eleven months
- 775 Western Iowa Technical Comm. Coll.** - Sioux City
Automobile Mechanics, four quarters



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DIESEL ENGINE MECHANICS

CISI NO. 7639

GROUP: 7600's - MECHANICS AND REPAIRERS

- Diesel Engine Mechanics Programs intend to prepare individuals to repair diesel engines in vehicles such as buses, ships, trucks, railroad locomotives and construction equipment. The program includes the study of diagnosing and correcting problems. Programs also involve stationary diesel engines such as electrical generators. Some programs include instruction in repair of other vehicle systems such as brakes, transmissions and electrical.
- The program length varies from four to eight quarters. Shorter programs tend to concentrate on engine mechanics and tune ups. Longer programs involve a greater number of truck and vehicle systems.
- Course work for Diesel Engine Mechanics Programs may include:

Gas Engine Maintenance
Starting & Charging Systems
Air Conditioning Systems
Front End & Alignment
Vehicle Inspection
Electrical Systems
Hydraulic Systems
Cooling Systems

Refrigeration
Ignition Systems
Transmissions
Diesel Engines
Fuel Systems
Clutches
Tune Ups

- Courses which would be helpful in preparing for Diesel Engine Mechanics Programs include industrial arts, mathematics, auto mechanics and welding.

- CISI occupations commonly entered by graduates include:

3112 Auto Mechanic
3145 Forklift Mechanic
3114 Heavy Equipment Mechanic

- Related military occupations include:

31120 Automobile Mechanics
61009 Aircraft Launch/Recovery Mechanics

- Eight Iowa schools have reported programs in Diesel Engine Mechanics.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

705 Des Moines Area Community College - Ankeny:

Diesel Equipment Mechanics, six terms

710 Eastern Iowa Community College - Bettendorf

Diesel Technology, two years

715 Hawkeye Institute of Technology - Waterloo:

Diesel Truck Mechanic, six quarters

720 Indian Hills Community College - Ottumwa:

Diesel Mechanic, twenty-four months

740 Iowa Western Community Coll. - Council Bluffs:

Diesel Service, two quarters

Diesel Mechanic, four quarters

Diesel Technology, six quarters

755 Northeast Iowa Technical Institute - Peosta:

Diesel Mechanic, four quarters

760 Northwest Iowa Technical College - Sheldon:

Truck & Diesel Mechanic, eight quarters

775 Western Iowa Technical Comm. Coll. - Sioux City

Diesel Mechanics, seven quarters



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SMALL ENGINE REPAIR

CISI NO. 7640

GROUP: 7600's - MECHANICS AND REPAIRERS

- Small Engine Repair Programs intend to prepare individuals to repair and maintain small internal combustion engines. These engines may be used on portable power equipment such as lawn mowers, chain saws, motorcycles and snowmobiles. The program length varies from three to four quarters.

- Course work for Small Engine Repair Programs may include:

Yard Care Equipment
Two Cycle Engines
Set Up & Assembly
Electrical Systems
Four Cycle Engines
Motorcycle Engines
Reconditioning

Transmissions
Marine Engines
Hydraulics
Drive Trains
Fuel Systems
Welding

- Courses which would be helpful in preparing for Small Engine Repair Programs include industrial arts, math, welding and auto mechanics.

- CISI occupations commonly entered by graduates include:

3112 Auto Mechanic
3124 Automobile Services Attendant
3121 Motorcycle Mechanic
3118 Small Engine Mechanic

- Related military occupations include:

31120 Automobile Mechanics
31141 Engine Mechanics

- Two Iowa schools have reported programs in Small Engine Repair.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

730 Iowa Lakes Community College - Emmetsburg:

Marine & Small Engine Mechanics, four quarters
Motorcycle Mechanics, three quarters

745 Kirkwood Community College - Cedar Rapids:

Marine and Small Engine Mechanics, four terms





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AIRCRAFT MECHANICS

CISI NO. 7642

GROUP: 7600's - MECHANICS AND REPAIRERS

- Aircraft Mechanics Programs intend to prepare individuals to inspect, repair, service and overhaul all airplane parts. The program includes the study of engines, propellers, instruments, fuel and oil tanks and hydraulic units. Programs are designed to meet Federal Aviation Administration requirements for licensing as an airframe/ powerplant mechanic. Upon completion of the program students will be prepared to take the FAA examination for those licenses. The program length varies from six to seven quarters.
- Course work for Aircraft Mechanics Programs may include:

Cabin Atmospheric Controls	Hydraulic Systems
Federal Aviation Regulations	Aircraft Drawings
Fuel Metering Systems	Aircraft Welding
Engine Maintenance	Ignition Systems
Weight and Balance	Airframe Systems
Wood and Plastic Repair	Fabric Coverings
Electrical Systems	Propellers
- Courses which would be helpful in preparing for Aircraft Mechanic Programs include industrial arts, physics, mathematics and English.
- CISI occupations commonly entered by graduates include:

3116 Aircraft Mechanic

6186 Flight Engineer

- Related military occupations include:

31160 Aircraft Mechanics

61009 Aircraft Launch/Recovery Specialists

- Three Iowa schools have reported programs in Aircraft Mechanics.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

715 Hawkeye Institute of Technology - Waterloo:

Aviation Maintenance Technology, six and one-half quarters

720 Indian Hills Community College - Ottumwa:

Aviation Maintenance, eighteen months

740 Iowa Western Community Coll. - Council Bluffs

Aviation Maintenance Technology, six quarters





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DRAFTING

CISI NO. 7701

GROUP: 7700's - PRECISION PRODUCTION

- Drafting Programs intend to prepare individuals to plan, prepare and interpret mechanical, architectural and structural sketches. Also included is knowledge of the development, planning and processing of charts and drawings to develop models, reports, and data sheets for use in building and construction trades. A drafter may specialize in buildings, roads, bridges, electrical systems, electronics or mechanical drafting. The program length varies from one to two years.

- Course work for the Drafting Programs include:

Mathematics
Chemistry
Drafting

Heating & Cooling Systems
Structural Design
Technical Writing

Physics
Metals
Specifications and Contracts
Estimating
Topography
Electrical Systems

- Students will also take other basic college courses. Cooperative work experiences may be included.
- Courses which would be helpful in preparing for Drafting Programs include industrial arts, physics, mathematics and English.

- CISI occupations commonly entered by graduates include:

2672 Construction Inspector
2364 Drafter
2451 Engineering Technician
1618 Estimator
2375 Industrial Designer

- Related military occupations include:

23640 Drafters
24841 Mapping Technicians

- Eleven Iowa schools have reported programs in Drafting.

- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

705 Des Moines Area Community College - Ankeny:

Architectural Drafting, three terms
Machine Drafting, four quarters

710 Eastern Iowa Community College - Bettendorf

Drafting, one year
Clinton: Technical Drafting for Construction & Manufacturing, four semesters

- 715 Hawkeye Institute of Technology** - Waterloo:
Architectural & Construction Drafting, four quarters
Mechanical Drafting, four quarters
- 720 Indian Hills Community College** - Centerville:
Mechanical Drafting, three terms
- 725 Iowa Central Community College** - Ft. Dodge:
Mechanical Drafting, 44 weeks
- 730 Iowa Lakes Community College** - Emmetsburg
Computer Assisted Drafting & Design, seven quarters
- 745 Kirkwood Community College** - Cedar Rapids:
Architectural Drafting, four quarters
- 760 Northwest Technical College** - Sheldon:
Engineering Drafting, four quarters
- 765 Southeastern Community Coll.** - West Burlington
Mechanical Drafting, two semesters
- 770 Southwestern Community College** - Creston:
Structural Drafting, 11 months
- 775 Western Iowa Technical Comm. Coll.** - Sioux City
Architectural Construction Drafting, four qtrs
Mechanical Drafting, four quarters



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GRAPHIC COMMUNICATIONS

CISI NO. 7707

GROUP: 7700's - PRECISION PRODUCTION

- Graphic Communications Programs intend to prepare individuals in all phases of graphic arts. Some emphasize the printing industry, including hot typesetting, cold typesetting, computer typesetting, typographical layout, composition, press work, binding, photography, and photo engraving. Others emphasize the design and production of layouts and illustrations. The program length varies from six quarters to four years. Many graduates of shorter programs transfer to four year colleges to complete a Bachelor's degree.

- Course work for Graphic Communications Programs may include:

Portfolio Preparation
Offset Press Work
Copy Preparation
Layout & Design
Camera Process
Plate Making

Photography
Estimating
Typography
Lettering
Typing
Airbrush

- Courses which would be helpful in preparing for Graphic Communications Programs include art, typing, bookkeeping, English and mathematics.

- CISI occupations commonly entered by graduates include:

4774 Bindery Worker

4724 Graphic Designer
4734 Photographer
5932 Photographic Printer Operator
4766 Printing Worker

- Related military occupations include:

47240 Graphic Designers and Illustrators
59350 Photo Processing Specialists
47340 Photographers
47660 Printing Specialists

- Twelve Iowa schools have reported programs in Graphic Communications.

- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

705 Des Moines Area Community College - Ankeny:

Commercial Art, five terms
Printing, three terms

710 Eastern Iowa Community college - Clinton

Printing Technology, 16 weeks

715 Hawkeye Institute of Technology - Waterloo:

Commercial Art, six quarters

730 Iowa Lakes Community College - Emmetsburg:

Graphic Arts, four quarters

- 735 Iowa Valley Community College** - Iowa Falls
Fine Arts for Illustration and Design, four sem
- 740 Iowa Western Community Coll.** - Council Bluffs
Graphic Arts, six quarters
- 745 Kirkwood Community College** - Cedar Rapids:
Graphic Arts, four quarters
Graphic Communications Specialist, six quarters

COLLEGES AND UNIVERSITIES

- 840 Drake University** - Des Moines:
Media Graphics, four years
- 855 Grandview College** - Des Moines
Commercial Art, four years
- 885 Marycrest College** - Davenport
Computer Graphics, two yrs
- 991 Iowa State University** - Ames:
Illustration - Biological and Medical



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COMPOSITION, MAKE-UP AND TYPESETTING

CISI NO. 7711

GROUP: 7700's - PRECISION PRODUCTION

- Composition, Make-up and Typesetting Programs intend to prepare individuals to layout, compose and make-up typesetting and typeset by hand and by machine. The program length is four quarters.
- Course work for the Composition, Make-up and Typesetting Program includes:

Imposition
Platemaking
Offset Duplicator Operation
Phototype Setter Operation
Copysetter Operation
35 Millimeter Photography
Half Tone Photography

Stripping
Bindery Methods
Human Relations
Communications
Estimating
Basic Layout
Paste Up Line Photography

- Courses which would be helpful in preparing for Composition, Make-up and Typesetting include English, drafting, mathematics and typing.
- CISI occupations commonly entered by graduates include:

4774 Bindry Worker
4766 Printing Worker

- Related military occupations include:

47660 Printing Specialists

- Two Iowa schools have reported a program in Composition, Make-up and Typesetting.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

730 Iowa Lakes Community College - Estherville:
Commercial Art

775 Western Iowa Technical Comm. Coll. - Sioux City
Graphic Communications, four quarters

COLLEGES AND UNIVERSITIES

960 Westmar College - Le Mars
Graphic Communications





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LITHOGRAPHY, PHOTOGRAPHY AND PLATEMAK- ING

CISI NO. 7712

GROUP: 7700's - PRECISION PRODUCTION

- Lithography, Photography and Platemaking programs intend to prepare individuals in all skills dealing lithographic photography. Lithographic photography and related processes differ from other photographic processes in the use of plates in the reproduction of pictures.

- Course work for Lithography, Photography and Platemaking Programs includes:

Camera Operation
Printing
Imposition
Type Composition

Press Operation
Paste-Up
Speed Printing

- CISI occupations commonly entered by graduates include:

5932 Photographic Printer Operator
4766 Printing Worker

- Related military occupations include:

47660 Printing Specialists

- One Iowa school has reported a program in Lithography, Photography and Platemaking.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

740 Iowa Western Community College - Council Bluffs
Composition, Make-Up and Typesetting

775 Iowa Western Community College - Council Bluffs
Lithography, four quarters





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UPHOLSTERING

CISI NO. 7719

GROUP: 7700's - PRECISION PRODUCTION

- Upholstering Programs intend to prepare individuals in all aspects of upholstering furniture, automobile seats, caskets, mattresses and bedsprings. The length of the program is three terms.
- Course work for the Upholstering Program includes:

Fundamentals of Upholstery	Upholstery Techniques
Upholstery Shop Management	Upholstery Practice
- Courses which would be helpful in preparing for Upholstering Programs include home economics and industrial arts.
- CISI occupations commonly entered by graduates include:

4448 Sewing Machine Operator
4446 Tailor
4494 Upholsterer
- Related military occupations include:

44460 Clothing and Fabric Repairers

- One Iowa school has reported a program in Upholstering.

- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

705 Des Moines Area Community College - Ankeny:
Upholstery, three terms



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MEATCUTTING

CISI NO. 7722

GROUP: 7700's - PRECISION PRODUCTION

- Meatcutting Programs intend to prepare individuals to cut, trim and prepare both carcasses and customer sized portions of meat. Program length is two quarters.

- Course work for the Meatcutting Program includes:

Introduction to Meatcutting

Microbiology

Breaking & Cutting

Refrigeration

Livestock Industry

Food Poisoning

Marketing

- Courses which would be helpful in preparing for Meatcutting Programs include math, bookkeeping, and vocational agriculture.

- CISI occupations commonly entered by graduates include:

4326 Meatcutter

4327 Meat Packing Worker

- One Iowa school has reported a program in Meatcutting.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

775 Western Iowa Technical Community College - Sioux City

Meat Cutter, two quarters





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MACHINE TOOL OPERATION/MACHINE SHOP

CISI NO. 7727

GROUP: 7700's - PRECISION PRODUCTION

- Machine Tool Operation/Machine Shop Programs intend to prepare individuals to shape metal parts on machines such as lathes, grinders, drill presses, milling machines and shapers. The program length varies from two to four quarters. Shorter programs tend to train students to operate one or more machines. Longer programs introduce students to a greater number of machines and include more courses in such areas as layout and design.
- Course work for Machine Tool Operation/Machine Shop Programs may include:

Machine Tool Operations	Measurements
Blueprint Reading	Cost Analysis
Machine Processes	Bench Work
Heat Treatments	Welding
Layout & Design	
- Courses which would be helpful in preparing for Machine Tool Operation/Machine Shop Programs include industrial arts, mathematics and English.
- CISI occupations commonly entered by graduates include:
 - 5464 Machinist
 - 5968 Production Machine Operator

5474 Punch Press Operator

- Related military occupations include:

54640 Machinists

- Twelve Iowa schools have reported programs in Machine Tool Operation/Machine Shop.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

- 705 Des Moines Area Community College** - Ankeny:
Job Shop Machinist, three terms
- 710 Eastern Iowa Community College** - Bettendorf
Machine Tool Operation (with Blackhawk)
- 715 Hawkeye Institute of Technology** - Waterloo:
Machinist, four quarters
- 720 Indian Hills Community College** - Ottumwa:
Machine Operator
Machinist
- 725 Iowa Central Community College** - Ft. Dodge:
Machine Shop, 44 weeks
- 735 Iowa Valley Community College** - Marshalltown
Machine Trades, 11 months
- 740 Iowa Western Community Coll.** - Council Bluffs:
General Machinist, four quarters

745 Kirkwood Community College - Cedar Rapids:

Machinist, four quarters

755 Northeast Iowa Technical Institute - Peosta:

General Machinist, four quarters

760 Northwest Iowa Technical College - Sheldon

Automotive Machinist, 72 weeks

General Machinist, 72 weeks

765 Southeastern Community Coll. - West Burlington

Machine Shop, two semesters

775 Western Iowa Technical Comm. Coll. - Sioux City

Machinist, four quarters



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TOOL AND DIE MAKING

CISI NO. 7731

GROUP: 7700's - PRECISION PRODUCTION

- Tool and Die Making Programs intend to prepare individuals to analyze specifications to prepare metal parts. The program includes preparing metal stock, operating machines and assembling parts. Instruction is given in metal properties and in the application and construction of tool and die designs. The length of the programs varies from six quarters to two years.

- Course work for Tool and Die Making Programs may include:

Try Out & Development
Precision Measurement
Construction of Dies
Blueprint Reading
Plastic Tooling

Jigs & Fixtures
Heat Treatment
Die Repairer
Tool Making

- Courses which would be helpful in preparing for Tool and Die Making Programs include science, mathematics and industrial arts.

- CISI occupations commonly entered by graduates include:

5464 Machinist
5474 Punch Press Operator
5462 Tool & Die Maker

- Related military occupations include:

54640 Machinists

- Five Iowa schools have reported programs in Tool and Die Making.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

705 Des Moines Area Community College - Ankeny:

Tool & Die Making, six terms

715 Hawkeye Institute of Technology - Waterloo:

Tool & Die Making, six quarters

735 Iowa Valley Community College - Marshalltown

Machine Shop/Tool & Die Option, two years

Tool Design/ Die Design, two years

740 Iowa Western Community Coll. - Council Bluffs

Tool & Die Making, seven quarters

755 Northeast Iowa Technical Institute - Peosta

Tool Design, 47 weeks





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WELDING, BRAZING AND SOLDERING

CISI NO. 7732

GROUP: 7700's - PRECISION PRODUCTION

- Welding, Brazing and Soldering Programs intend to prepare individuals to use gas, arc and other welding processes. The program also includes using the welding process to braze and solder metal parts according to diagrams, blueprints or written specifications. Programs prepare students for the American Welding Society examination. Some students pass this examination and become certified prior to completing the Welding Program. The length of the programs varies from two to four quarters. Longer programs include a greater variety of welding methods and equipment.

- Course work for Welding Programs may include:

Tungsten Inert Gas Welding
Gas Shielded Arc Welding
Oxyacetylene Welding
Brazing & Soldering
Blueprint Reading

Cast Iron Welding
Hard Surfacing
Heat Treating
Arc Welding
Pipe Welding

- Courses which would be helpful in preparing for Welding, Brazing and Soldering Programs include industrial arts.

- CISI occupations commonly entered by graduates include:

5492 Welder

- Related military occupations include:

54920 Welders

- Thirteen Iowa schools have reported programs in Welding, Brazing and Soldering.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

SPECIALIZED SCHOOLS

620 Job Corps - Denison: Welding, eight months

AREA SCHOOLS

705 Des Moines Area Community College - Ankeny:
Welding, three terms

710 Eastern Iowa Community College -
Bettendorf: Welding, two semesters
Muscatine: Welding, two semesters

715 Hawkeye Institute of Technology - Waterloo:
Welding, two quarters

720 Indian Hills Community College - Ottumwa:
Welding, six months

725 Iowa Central Community College - Ft. Dodge:
Welding, two semesters

- 740 Iowa Western Community Coll.** - Council Bluffs
Welding, four quarters
- 745 Kirkwood Community College** - Cedar Rapids:
Welding, three quarters
- 750 North Iowa Community College** - Mason City:
Welding, nine months
- 755 Northeast Iowa Technical Institute** -
Calmar: Welding, four quarters
Peosta: Welding, four quarters
- 760 Northwest Iowa Technical College** - Sheldon:
Welding, four quarters
- 765 Southeastern Community Coll.** -
West Burlington & Keokuk
Welding, two semesters and one summer session
- 775 Western Iowa Technical Comm. Coll.** - Sioux City
Welder, two quarters



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AVIATION MANAGEMENT

CISI NO. 7904

GROUP: 7900's - TRANSPORTATION AND MATERIAL MOVING

- Aviation Management Programs include study of the skills and techniques of administration as related to the aviation industry. The program length varies from two to four years. The four year program includes more general liberal arts and business administration courses.

- Course work for Aviation Management Programs may include:

Airport Management
Airline Management

General Business
Flight Training

- Programs present students with an opportunity to obtain several pilot's licenses and ratings. Students will also take general liberal arts courses.
- Courses which would be helpful in preparing for Aviation Management Programs include mathematics and science.
- CISI occupations commonly entered by graduates include:

6188 Airplane Pilot/Co-Pilot
6186 Flight Engineer

- Related military occupations include:

61884 Flight Engineers
61882 Helicopter Pilot
61881 Airplane Pilots
61883 Airplane Navigators

- Three Iowa schools have reported programs in Aviation Management.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

725 Iowa Central Community College - Fort Dodge:
Aviation/Airport Management, two years

730 Iowa Lakes Community College - Estherville:
Aviation/Airport Management, seven quarters

COLLEGES AND UNIVERSITIES

925 University of Dubuque - Dubuque
Aviation Management, four years





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AIRPLANE PILOTING

CISI NO. 7907

GROUP: 7900's - TRANSPORTATION AND MATERIAL MOVING

- Airplane Piloting Programs intend to prepare persons to pilot aircraft and to assume command responsibility for passengers / freight. Students are prepared to take Federal Aviation Administration written and practical examinations in order to obtain licenses and ratings.

- Licenses and ratings covered in most schools include:

Certified Flight Instructor
Airline Transport Rating
Multi-Engine Rating

Instrument Rating
Commercial Pilot
Private Pilot

- Many persons pursue pilot training to use in another profession. Regular physical examinations are necessary to obtain and maintain licenses.
- Courses which would be helpful in preparing for Airplane Piloting Programs include mathematics and physics.
- CISI occupations commonly entered by graduates include:

6188 Aircraft Pilot/Co-Pilot
6186 Flight Engineer

- Airplane Piloting Programs are offered throughout the State of Iowa. Both flight schools (aircraft schools) and private instructors provide this type of training. To locate instructors, look in the yellow pages of your telephone book under Aircraft Schools or call your local airport or flying club.





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CONSTRUCTION EQUIPMENT OPERATION

CISI NO. 7909

GROUP: 7900's - TRANSPORTATION AND MATERIAL MOVING

- Construction Equipment Operation Programs intend to prepare individuals to operate and maintain a variety of heavy equipment. Such equipment may include crawler tractors, motor graders, scrapers, shovels, drag lines, hoes and cranes. The program length is seven quarters.
- Course work for the Construction Equipment Operation Program includes:

Drive Train & Undercarriage
Rebuilding
Heavy Equipment Operation
Servicing
Hydraulics
Tune Ups
Welding

General Maintenance
Safety Regulations
Lubrication
Preventive Maintenance
Equipment Reconditioning
Application & Job Design
Stake & Plan Reading

- Courses which would be helpful in preparing for Construction Equipment Operation include math, English and auto mechanics.
- CISI occupations commonly entered by graduates include:

3114 Heavy Equipment Mechanic
6151 Heavy Equipment Operator

- Related military occupations include:

61009 Aircraft Launch/Recovery Specialists
61512 Paving Equipment Operators
61510 Construction Equipment Operators

- One Iowa school has reported programs in Construction Equipment Operation.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

760 Northwest Iowa Technical College - Sheldon:
Heavy Equipment Operation & Maintenance, seven qtr





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TRUCK AND BUS DRIVING

CISI NO. 7912

GROUP: 7900's - TRANSPORTATION AND MATERIAL MOVING

- Truck and Bus Driving Programs intend to prepare students to drive trucks and buses. Programs include operating the vehicle, loading and unloading and keeping records. The program length varies from four to six weeks.
- Course work for Truck and Bus Driving Programs may include:

D.O.T. Rules & Regulations	Driving Techniques
Use of Clutch and Gas	Backing Techniques
Hooking & Unhooking Trailers	Safety Regulations
Differences in Engines	Trouble Shooting
- Courses prepare students to take examinations for a chauffeur's license. Short and long haul trips are included in the training.
- Courses which would be helpful in preparing for Truck and Bus Driving Programs include automobile mechanics, machine shop and welding.
- CISI occupations commonly entered by graduates include:

6141 Bus Driver
6144 Truck Driver

- Related military occupations include:

61440 Truck Drivers

- Four Iowa schools have reported programs in Truck and Bus Driving.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

SPECIALIZED SCHOOLS

655 Iowa Truck Driving School - West Des Moines
Truck Driving,

AREA SCHOOLS

710 Eastern Iowa Community College - Bettendorf
Truck Driving, four weeks

715 Hawkeye Institute of Technology - Waterloo:
Truck Driving, six weeks

775 Western Iowa Technical Collge - Sioux City
Semi-Truck and Bus Driving, 180 hours





PROGRAMS OF STUDY AND TRAINING

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GRAPHIC DESIGN

CISI NO. 8011

GROUP: 8000's - VISUAL & PERFORMING ARTS

- Graphic Design Programs study the theories and techniques of designing artwork, layouts and illustrations for reproduction. The program length is four years.

- Course work for Graphic Design Programs may include:

Copy Preparation
Photo Journalism
Interior Design
Layout & Design

Typography
Photography
Printmaking

- Some programs offer students the opportunity to specialize in such areas as advertising design, art education, craft design and interior design. Internships are available in some programs.
- Courses which would be helpful in preparing for Graphic Design Programs include art, English and mathematics.
- CISI occupations commonly entered by graduates include:

4724 Graphic Designer
2371 Interior Designer
4734 Photographer
8456 Secondary Teacher

- Related military occupations include:

47240 Graphic Designers and Illustrators
47340 Photographers
84540 Teachers and Instructors

- One Iowa school has reported a program in Graphic Design.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

991 Iowa State University - Ames:

Art and Design
Graphic Design





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DRAMATIC ARTS

CISI NO. 8016

GROUP: 8000's - VISUAL AND PERFORMING ARTS

- Dramatic Arts Programs include the study of the historic development, theory and creative processes of creating performances. The program lengths are four years. Students who complete Dramatic Arts Programs often continue into graduate school.

- Course work for Dramatic Arts Programs may include:

Performing Voice
History of Theatre
Scenery Design
Literature
Stage Craft
Stage Costume

Directing
Lighting
Criticism
Acting
Dance

- Students may choose to specialize in areas such as directing, acting, design, theatre history and film production. Opportunities are available in many schools for off-campus experiences.
- Courses which would be helpful in preparing for Dramatic Arts Programs include speech, English, drama and debate.
- CISI occupations commonly entered by graduates include:

9866 Actor/Actress
9868 Dancer

9824 Radio/TV Announcer
8456 Secondary Teacher
8453 Specialty Instructor

- Related military occupations include:

98671 Band Managers
98670 Musicians
98240 Radio and TV Announcers
84540 Trainers
84540 Teachers and Instructors

- Fifteen Iowa schools have reported programs in Dramatic Arts.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

810 Central College - Pella: Communication & Theatre
815 Clarke College - Dubuque: Drama/Speech
820 Coe College - Cedar Rapids: Theatre Arts
835 Dordt College - Sioux Center: Theatre Arts, General
840 Drake University - Des Moines
Musical Theatre
Theater Arts
850 Graceland College - Lamoni: Theatre & Speech Comm.
860 Grinnell College - Grinnell: Theatre
885 Marycrest College - Davenport: Performing Arts

890 Morningside College - Sioux City: Theatre
895 Mount Mercy College - Cedar Rapids: Speech & Drama
905 Northwestern College - Orange City: Theatre & Speech
920 Simpson College - Indianola: Theatre Arts
993 University of Iowa - Iowa City: Theater Arts
995 University of Northern Iowa - Cedar Falls
Music Theatre
960 Westmar College - Le Mars: Theatre Arts



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PHOTOGRAPHY

CISI NO. 8021

GROUP: 8000's - VISUAL AND PERFORMING ARTS

- Photography Programs intend to prepare individuals for occupations where photography is a part of a larger objective, such as journalism, public relations, advertising and broadcasting. Students may take English, history, science and social science classes in addition to photography. Photography students will have the opportunity to tailor-make a program to fit their needs. Program are six quarters to four years.

- Course work for Photography Programs may include:

Studio Photography	Reporting
Documentary Stills	Broadcasting
Photojournalism	Public Relations
Producing Slide Programs	Advertising
Film Production	Design
Experimental Photography	Layout

- Internships and the opportunity for part-time work in photography are available.
- Courses which would be helpful in preparing for photography programs include English. Practical experience in photography would also be helpful.

- CISI occupations commonly entered by graduates include:

3171 Media Technician
4734 Photographer
5932 Photographic Printer Operator

- Related military occupations include:

98009 Audio Visual Production Specialists
59350 Photo Processing Specialists
47340 Photographers

- Two Iowa schools have reported programs in photography.

- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

AREA SCHOOLS

715 Hawkeye Institute of Technology - Waterloo:
Photography, six quarters

COLLEGES AND UNIVERSITIES

855 Grandview College - Des Moines
Photography - Interdisciplinary major





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MUSIC

CISI NO. 8035

GROUP: 8000's - VISUAL AND PERFORMING ARTS

- Music programs include a general study of music history and appreciation, music performance, music theory and composition. The program length varies from two to four years. Most graduates of two year programs transfer to four year colleges to continue their education. Many graduates of four year programs continue on to graduate school.

- Course work for Music programs may include:

Marching Band Methods
Music Literature
Band Arranging
Music History
Music Theory

Conducting
Composing
Harmony
Voice

- Students will also take many courses in their chosen area of performance such as voice, piano or a particular other instrument. Schools offer students many opportunities for experience in performing.
- Courses which would be helpful in preparing for Music Programs include music, band and choir.
- CISI occupations commonly entered by graduates include:

8455 Elementary Teacher

9867 Musician
8456 Secondary Teacher
8453 Specialty Instructor
8454 University/College Teacher

- Related military occupations include:

84540 Teachers and Instructors
84560 Trainers
98671 Band Managers
98670 Musicians

- Twenty-five Iowa schools have reported programs in Music.
- The following gives each school's CISI number, name, city, program title and program length. For addresses, phone numbers, costs, etc., see the SCHOOL PROFILES. For full program descriptions, see the SCHOOL INFORMATION microfiche.

COLLEGES AND UNIVERSITIES

800 Briar Cliff College - Sioux City
Vocal-Keyboards Music, four years

- **805 Buena Vista College** - Storm Lake: Music, two years
- 810 Central College** - Pella: Music, four years
- 815 Clarke College** - Dubuque: Music, four years
- 820 Coe College** - Cedar Rapids
Music, four years
Musical Theater, four years
- 835 Dordt College** - Sioux Center: Music, four years

- 840 Drake University** - Des Moines
Applied Music, four years
Music, four years
Music Composition, four years
Music History and Literature, four years
- 850 Graceland College** - Lamoni: Music, four years
- 860 Grinnell College** - Grinnell: Music, four years
- 991 Iowa State University** - Ames: Music, four years
- 865 Iowa Wesleyan College** - Mount Pleasant
Music, four years
- 870 Loras College** - Dubuque: Music, four years
- 875 Luther College** - Decorah: Music, four years
- 890 Morningside College** - Sioux City: Music, four years
- 895 Mount Mercy College** - Cedar Rapids: Music, four years
- 905 Northwestern College** - Orange City
Music, four years
Music Performance, four years
- 915 St. Ambrose College** - Davenport: Music, four years
- 920 Simpson College** - Indianola: Music, four years
- 925 University of Dubuque** - Dubuque: Music, four years
- 993 University of Iowa** - Iowa City: Music, four years
- 995 University of Northern Iowa** - Cedar Falls
Music - Liberal Arts, four years
Music Performance, four years
Music - Theory Composition, four years
- 945 Waldorf College** - Forest City: Music, two years
- 950 Wartburg College** - Waverly
Music, four years
Music (applied), four years
- 960 Westmar College** - Le Mars: Music, four years
- 965 William Penn College** - Oskaloosa: Music, four years



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APPRENTICESHIP

CISI NO. 9001

GROUP: 9000's - APPRENTICESHIP

- Apprenticeship Programs intend to provide training for many crafts, trades and technical occupations. They are one to five years of on-the-job training under the supervision of experienced craftspersons. When the training is completed a certificate is awarded.
- Requirements to enter an apprenticeship vary, but usually include:
 - 18 years of age or older
 - ability to work with hands and head
 - good physical condition for the tasks of that trade
 - recommended high school or G.E.D. completion
- Most apprenticeship programs enroll a 'class' of new apprentices at regular periods, such as once a year. Applications are taken and a committee selects those who will 'enroll'. Some smaller programs 'enroll' apprentices on an individual basis.
- Once a person has been accepted to enroll in an apprentice-ship program, a formal process is started. This is sometimes called 'indenturing'. Written agreements are signed by the trainer and the trainee. These agreements must then be submitted to the Bureau of Apprenticeship and Training (B.A.T.) for approval. The B.A.T. is a division of the United States Department of Labor.

- When the applicant is 'registered' with the BAT, training can begin. This training follows a plan which has also been registered with the B.A.T. The plan is called 'Standards of Apprenticeship'. Standards contain a detailed outline of the tasks and work processes the trainee will be doing. It also includes the number of hours which will be spent in each area.
- The standards also state the pay scale for the program. Apprentices usually start at about 50% of a trained person's wage. Increases are often given each 1000 hours of training which is usually about 6 months. When the program is done, the trainee receives the same wage as any other trained persons.
- All through the program the trainers must supervise and evaluate each apprentice and make regular progress reports to the B.A.T. If the progress is not satisfactory, the trainer and the B.A.T. together may agree to drop an apprentice from the program.
- In addition to the on-the-job experiences, apprentice-ship programs must provide 144 hours per year of 'related instruction'. Instruction often is in classes held after work or on weekends. Often it is through approved correspondence or self-study programs. The standards and apprenticeship agreements both state exactly how the related instruction is to be done for each different program. Apprentices must complete related instruction and make satisfactory progress in it.
- Apprentices work the same hours as trained persons, and might be 'laid off' in the same way. Bad weather or a slow work season could mean lay-offs. If that happens, the program is not ended but is only delayed until work may start again. Because of lay-offs, a program might take longer to complete than expected. For example, a four

year carpentry program will contain 8000 hours of work experience. Normally, a worker can get at least 2000 hours in one year. But if lay-offs happen, the program will not be over until 8000 hours are finished.

- The formal nature of apprenticeship programs with their registered standards and agreements protects each trainee by:
 1. Outlining training specifically
 2. Providing planned related instruction
 3. Requiring written progress records
 4. Limiting the number one person may train
 5. Requiring equal opportunity
 6. Defining the probation period
 7. Defining conditions for dismissal
 7. Stating health and safety requirements.
- Some apprenticeship programs are run by a Joint Apprenticeship Committee and handle apprentices for many different employers. In Iowa, 13 different trades have joint apprenticeship committees. For names and addresses of those committees, see the PROGRAMS OF STUDY AND TRAINING, for the specific trade.

Asbestos Workers - 9002
 Bricklayers - 9003
 Carpenters - 9004
 Cement Masons - 9005
 Electricians - 9006

Glaziers - 9007
 Iron Workers - 9008

Operating Engineers - 9009
 Painters - 9010
 Plasterers - 9011
 Plumbers/Pipefitters - 9012
 Sheet Metal Workers - 9013
 Roofers - 9014

- Sixty-one other CISI occupations also have apprenticeship programs available in Iowa.
- The following list shows the name and CISI number for those sixty-one occupations. For more information contact:
 U.S. Department of Labor
 Bureau of Apprenticeship and Training
 210 Walnut St. (Room 637)
 Des Moines, Iowa 50309

(515) 284-4690

3115 Agricultural Equipment Mechanic
 3116 Aircraft Mechanic
 3169 Appliance Repairer
 5486 Auto Body Repairer
 3112 Auto Mechanic
 4324 Baker
 4774 Bookbinder
 5664 Broadcast Technician
 4586 Cabinetmaker
 1684 Computer Programmer
 7824 Cook / Chef
 5935 Darkroom Worker
 2655 Dental Lab Technician
 2364 Drafter
 4243 Dry Wall Installer / Finisher
 2461 Electronics Technician
 8168 Emergency Medical Technician
 9426 Fire Fighter
 4276 Floor Covering Installer
 4746 Florist
 3145 Forklift Mechanic
 5426 Foundry Worker
 3146 Heating / Cooling Mechanic
 3114 Heavy Equipment Mechanic
 3144 Industrial Maintenance Mechanic
 2693 Laboratory Tester
 2686 Lens Grinder
 5624 Lineperson
 3192 Locksmith
 5464 Machinist
 4326 Meat Cutter
 2659 Medical Lab Assistant
 5976 Miller / Mixer
 3142 Millwright
 3121 Motorcycle Mechanic
 3188 Musical Instrument Repairer
 3164 Office Machine Servicer
 2664 Orthopedic Appliance Technician



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PROGRAMS OF STUDY AND TRAINING

4224 Paperhanger
4734 Photographer
9414 Police Officer
5948 Power Plant Operator
4766 Printing Worker
5968 Production Machine Operator
5474 Punch Press Operator
2673 Quality Control Technician
5946 Sewage Plant Operator
3118 Small Engine Mechanic
5944 Stationary Engineer
4247 Stone Mason
2421 Surveyor
4446 Tailor
3166 Telephone Equipment Installer
4249 Tile Setter
5925 Tire Builder
5462 Tool & Die Maker
3168 TV / Radio Repairer
4494 Upholsterer
3172 Vending Machine Repairer
3184 Watch / Jewelry Repairer
4555 Woodworking Machine Operator





PROGRAMS OF STUDY AND TRAINING

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ASBESTOS WORKERS

CISI NO. 9002

GROUP: 9000's - APPRENTICESHIP

JOINT APPRENTICESHIP COMMITTEES

- This list contains the names and addresses of Joint Apprenticeship Committees which sponsor registered asbestos working apprenticeship programs in Iowa.
- The information was prepared by the U.S. Department of Labor, Bureau of Apprenticeship and Training, 210 Walnut Street, Des Moines, Iowa 50309.
- Cedar Rapids Area Asbestos Workers Joint Apprenticeship Committee
301 E. Broadway - P.O. Box 148
Stanwood, Iowa 52337
- Central Iowa Area Heat & Frost Insulators & Asbestos Workers Joint Apprenticeship & Training Committee
2501 Bell Avenue
Des Moines, Iowa 50321
- Omaha Asbestos Workers Joint Apprenticeship Committee
(Council Bluffs)
3636 N. 83rd Street
Omaha, Nebraska 68134





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BRICKLAYERS

CISI NO. 9003

GROUP: 9000's - APPRENTICESHIP

JOINT APPRENTICESHIP COMMITTEES

- This list contains the names and addresses of Joint Apprenticeship Committees which sponsor registered bricklaying apprenticeship programs in Iowa.
- The information was prepared by the U.S. Department of Labor, Bureau of Apprenticeship and Training, 210 Walnut Street, Des Moines, Iowa 50309.
- Associated Builders & Contractors, Inc.
4845 Merle Hay Road Suite A
Des Moines, Iowa 50323
- Cedar Rapids Bricklayers Joint Apprenticeship Committee
1211 Wiley Blvd. S.W.
Cedar Rapids, Iowa 52404
- Des Moines Bricklayers Joint Apprenticeship Committee
124 Washington Street
Des Moines, Iowa 50314
- Fort Dodge Bricklayers Joint Apprenticeship Committee
RR # 3
Fort Dodge, Iowa 50501
- Mason City Bricklayers Joint Apprenticeship Committee
212 14th Street SW
Mason City, Iowa 50401
- Ottumwa Bricklayers Joint Apprenticeship Committee
819 Ogden Street
Ottumwa, Iowa 52501
- Omaha Bricklayers Joint Apprenticeship Committee
(Council Bluffs)
4046 Vinton
Omaha, Nebraska 68105
- Sioux City Bricklayers Joint Apprenticeship Committee
3900 seventh Avenue
Sioux City, Iowa 51106
- Waterloo Bricklayers Joint Apprenticeship Committee
515 2nd Street
Evansdale, Iowa 50707





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CARPENTERS

CISI NO. 9004

GROUP: 9000's - APPRENTICESHIP

JOINT APPRENTICESHIP COMMITTEES

- This list contains the names and addresses of Joint Apprenticeship Committees which sponsor registered Carpentry apprenticeship programs in Iowa.
- The information was prepared by the U.S. Department of Labor, Bureau of Apprenticeship and Training, 210 Walnut Street, Des Moines, Iowa 50309.
- Associated Builders & Contractors, Inc.
4845 Merle Hay Road Suite A
Des Moines, Iowa 50323
- Des Moines Carpenters Joint Apprenticeship Committee
1001 Cherry Street
Des Moines, Iowa 50309
- Dubuque Carpenters Joint Apprenticeship Committee
1638 Central Avenue
Dubuque, Iowa 52001
- Eastern Iowa Carpenters Joint Apprenticeship Committee
1436 Avenue E
Fort Madison, Iowa 52637
- Five River Carpenters Joint Apprenticeship Committee
350 Waconia Court
Cedar Rapids, Iowa 52404
- Mason City Carpenters Joint Apprenticeship Committee
510 S. Pennsylvania Avenue
Mason City, Iowa 50401
- Omaha Carpenters Joint Apprenticeship Committee
1821 California Street
Omaha, Nebraska 68102
- Sioux City Carpenters Joint Apprenticeship Committee
321 - 5th Street
Sioux City, Iowa 51101
- Tri-City Carpenters Joint Apprenticeship Committee
Davenport
P.O. Box 569
Rock Island, Illinois 61201
- Waterloo Carpenters Joint Apprenticeship Committee
1695 Burton Avenue
Waterloo, Iowa 50703





PROGRAMS OF STUDY AND TRAINING

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CEMENT MASONS

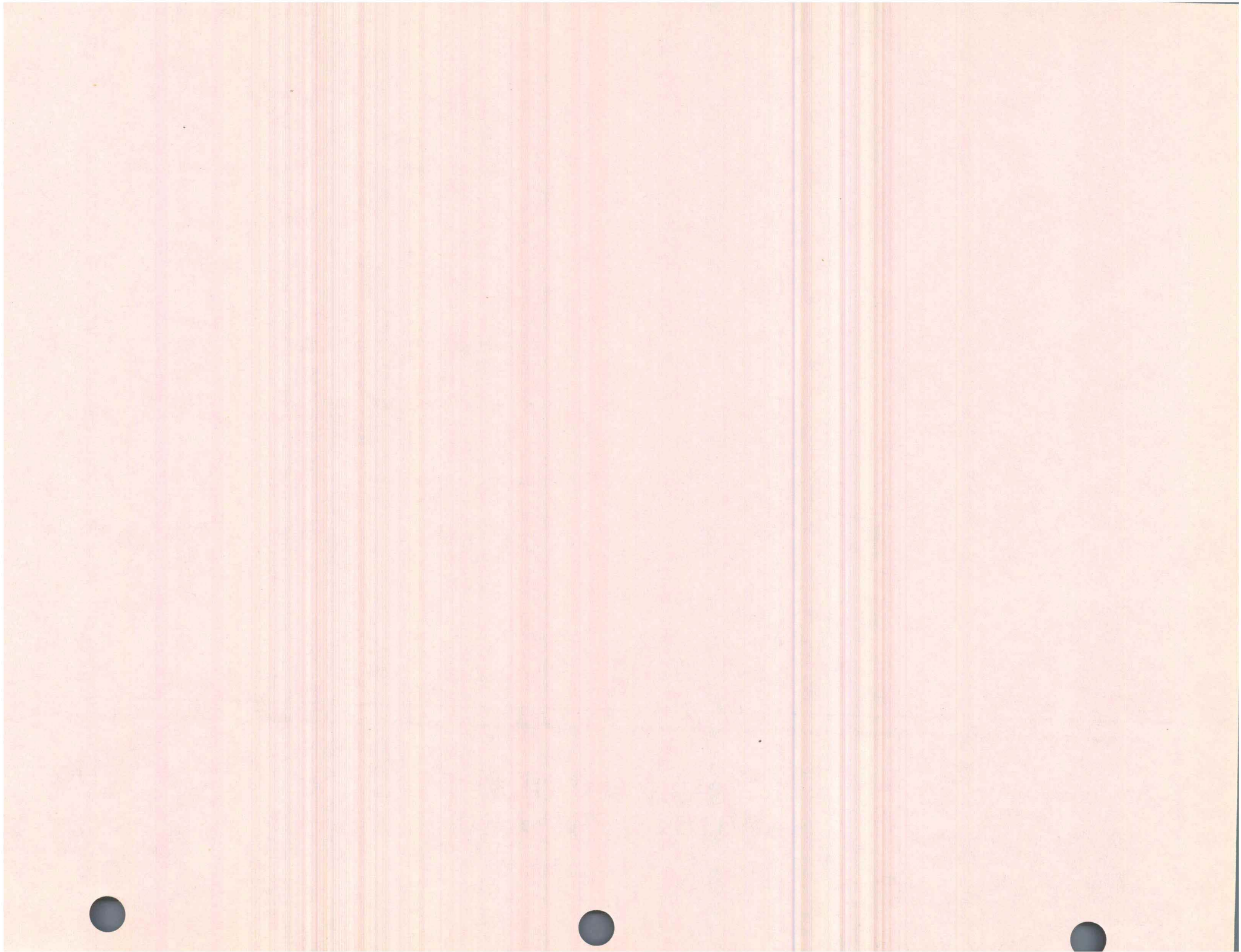
Rock Island, Illinois 61201

CISI NO. 9005

GROUP: 9000's - APPRENTICESHIP

JOINT APPRENTICESHIP COMMITTEES

- This list contains the names and addresses of Joint Apprenticeship Committees which sponsor registered Cement Masoning apprenticeship programs in Iowa.
- The information was prepared by the U.S. Department of Labor, Bureau of Apprenticeship and Training, 210 Walnut Street, Des Moines, Iowa 50309.
- Des Moines Cement Masons Joint Apprenticeship Committee
2121 Delaware
Des Moines, Iowa 50317
- Omaha Cement Masons Joint Apprenticeship Committee
(Council Bluffs)
14515 Industrial Road
Omaha, Nebraska 58144
- Sioux City Cement Masons Joint Apprenticeship Committee
1510 W. 3rd Street
Sioux City, Iowa 51103
- Tri-City Cement Masons Joint Apprenticeship Committee
P.O. Box 1027





PROGRAMS OF STUDY AND TRAINING

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ELECTRICIAN

CISI NO. 9006

GROUP: 9000's - APPRENTICESHIP

JOINT APPRENTICESHIP COMMITTEES

- This list contains the names and addresses of Joint Apprenticeship Committees which sponsor registered Electrical apprenticeship programs in Iowa.
- The information was prepared by the U.S. Department of Labor, Bureau of Apprenticeship and Training, 210 Walnut Street, Des Moines, Iowa 50309.
- Associated Builders & Contractors, Inc.
4845 Merle Hay Road Suite A
Des Moines, Iowa 50323
- Cedar Rapids/Iowa City Electricians
Joint Apprenticeship Committee
1211 Wiley Blvd. S.W.
- Cedar Rapids, Iowa 52401
Des Moines Electricians Joint Apprenticeship Committee
3711 Douglas Avenue
Des Moines, Iowa 50310
- Dubuque Electricians Joint Apprenticeship Committee
1610 Garfield Street

Dubuque, Iowa 52001

- Fort Dodge Electricians Joint Apprenticeship Committee
1813 First Avenue North
Fort Dodge, Iowa 50501
- Mason City Electricians Joint Apprenticeship Committee
320 First Street, S.W.
Mason City, Iowa 50401
- Omaha Electricians Joint Apprenticeship Committee
(Council Bluffs)
8949 L Street
Omaha, Nebraska 68127
- Quad City Electricians Joint Apprenticeship Committee
(Davenport)
508 Cleveland Building
Rock Island, Illinois 61201
- Sioux City Electricians Joint Apprenticeship Committee
700 Badgerow Building
Sioux City, Iowa 51101
- Southeast Iowa/Ottumwa Electricians
Joint Apprenticeship Committee
(Burlington)
127 S. 4th Street
Burlington, Iowa 52601
- Waterloo Electricians Joint Apprenticeship Committee

1695 Burton Avenue
Waterloo, Iowa 50703



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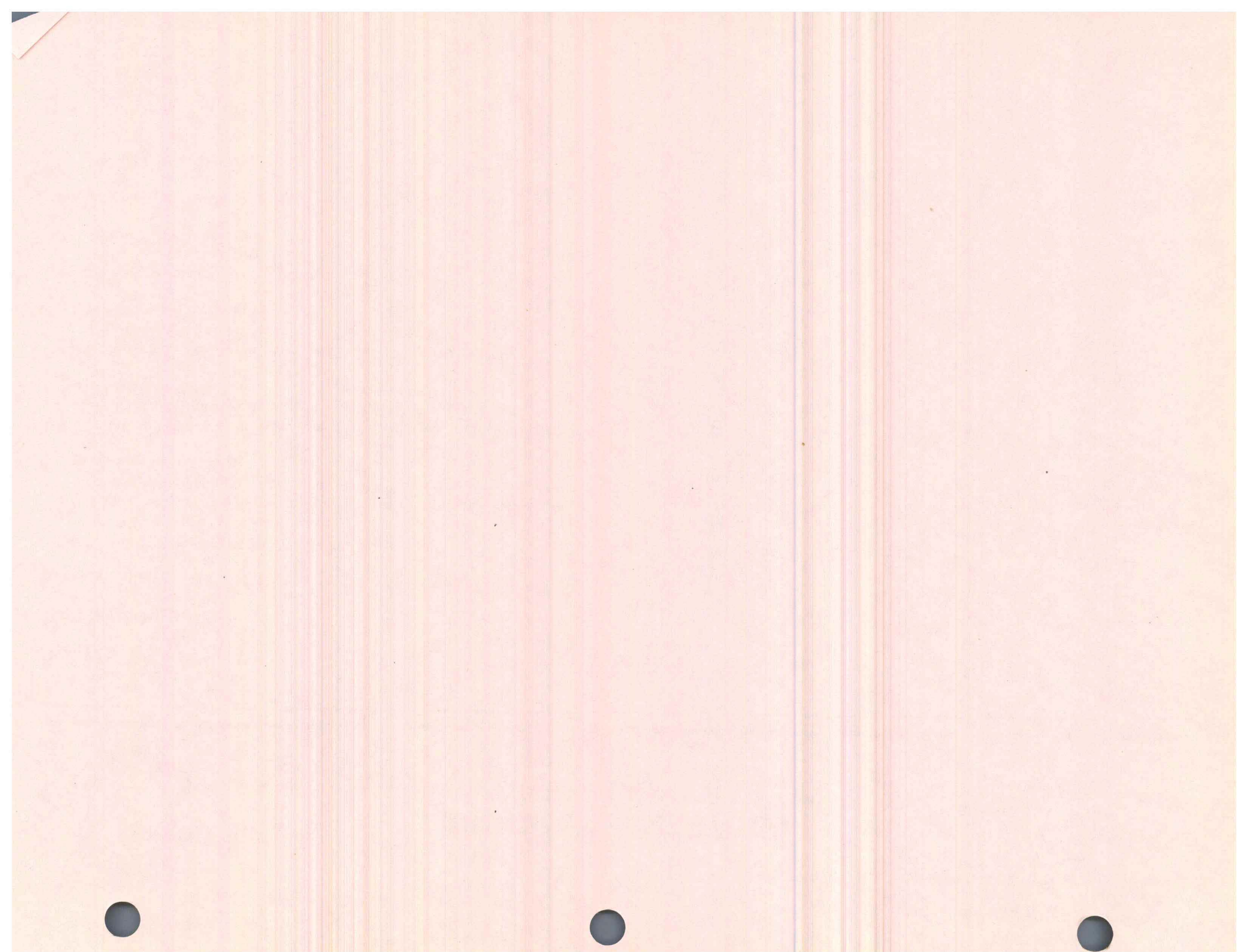
GLAZIERS

CISI NO. 9007

GROUP: 9000's - APPRENTICESHIP

JOINT APPRENTICESHIP COMMITTEES

- This list contains the names and addresses of Joint Apprenticeship Committees which sponsor registered Glazing apprenticeship programs in Iowa.
- The information was prepared by the U.S. Department of Labor, Bureau of Apprenticeship and Training, 210 Walnut Street, Des Moines, Iowa 50309.
- Des Moines Glazier Joint Apprenticeship Committees
6301 Rockhill Road - Room 403
Kansas City, Missouri 64131
- Omaha Glazier Joint Apprenticeship Committee
5077 South 87th Street
Omaha, Nebraska 68127
- Quad-city Area Glazier Joint Apprenticeship Committee
2827 7th Avenue
Rock Island, Illinois 61201





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IRON WORKERS

CISI NO. 9008

GROUP: 9000's - APPRENTICESHIP

JOINT APPRENTICESHIP COMMITTEES

- This list contains the names and addresses of Joint Apprenticeship Committees which sponsor registered Iron Working apprenticeship programs in Iowa.
- The information was prepared by the U.S. Department of Labor, Bureau of Apprenticeship and Training, 210 Walnut Street, Des Moines, Iowa 50309.
- Associated Builders and Contractors, Inc
4845 Merle Hay Road - Suite A
Des Moines, Iowa 50323
- Burlington Iron Workers Joint Apprenticeship Committee
1815 Des Moines
Burlington, Iowa 52601
- Des Moines Iron Workers Joint Apprenticeship Committee
1501 E. Aurora
Des Moines, Iowa 50313
- Northeast Iowa Iron Workers Joint Apprenticeship Committee (Cedar Rapids, Waterloo, Dubuque)
5000 J Street, S.W.

Cedar Rapids, Iowa 52404

- Omaha Iron Workers Joint Apprenticeship Committee
(Council Bluffs)
14515 Industrial Road
Omaha, Nebraska 68144
- Quad City Iron Workers Joint Apprenticeship Committee
(Davenport)
2616 - 5th Avenue
Rock Island, Illinois 61201
- Sioux City Iron Workers Joint Apprenticeship Committee
507 - 7th Street, Insurance Exchange Building
Sioux City, Iowa 51101





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OPERATING ENGINEERS

CISI NO. 9009

GROUP: 9000's - APPRENTICESHIP

JOINT APPRENTICESHIP COMMITTEES

- This list contains the names and addresses of Joint Apprenticeship Committees which sponsor registered Operating Engineering apprenticeship programs in Iowa.
- The information was prepared by the U.S. Department of Labor, Bureau of Apprenticeship and Training, 210 Walnut Street, Des Moines, Iowa 50309.
- Iowa Operating Engineers Apprentice & Training Program
(State-wide)
865 S.E. 55th Street
Des Moines, Iowa 50317
- Quint-Cities Area Operating Engineers Joint Apprenticeship Committee (Southeastern Iowa)
3511 78th Avenue West
Rock Island, Illinois 61201





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PAINTERS

CISI NO. 9010

GROUP: 9000's - APPRENTICESHIP

JOINT APPRENTICESHIP COMMITTEES

- This list contains the names and addresses of Joint Apprenticeship Committees which sponsor registered Painting apprenticeship programs in Iowa.
- The information was prepared by the U.S. Department of Labor, Bureau of Apprenticeship and Training, 210 Walnut Street, Des Moines, Iowa 50309.
- Associated Builders & Contractors, Inc
4845 Merle Hay Road - Suite A
Des Moines, Iowa 50323
- Cedar Rapids Painters Joint Apprenticeship Committee
5000 J Street
Cedar Rapids, Iowa 52404
- Des Moines Painters Joint Apprenticeship Committee
124 Washington Street
Des Moines, Iowa 50314
- Dubuque Painters Joint Apprenticeship Committee
164 Main Street
Dubuque, Iowa 52001

- Omaha Painters Joint Apprenticeship Committee
(Council Bluffs)
4523 Military Avenue
Omaha, Nebraska 68104
- Quad City Painters Joint Apprenticeship Committee
(Davenport)
520 - 12th Street
Rock Island, Illinois 61201
- Sioux City Painters Joint Apprenticeship Committee
1414 Nebraska Street
Sioux City, Iowa 51101
- Waterloo Painters Joint Apprenticeship Committee
1695 Burton Avenue
Waterloo, Iowa 50703





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PLASTERERS

CISI NO. 9011

GROUP: 9000's - APPRENTICESHIP

JOINT APPRENTICESHIP COMMITTEES

- This list contains the names and addresses of Joint Apprenticeship Committees which sponsor registered Plastering apprenticeship programs in Iowa.
- The information was prepared by the U.S. Department of Labor, Bureau of Apprenticeship and Training, 210 Walnut Street, Des Moines, Iowa 50309.
- Des Moines Plasterers Joint Apprenticeship Committee
2121 Delaware Street
Des Moines, Iowa 50317
- Omaha Plasterers Joint Apprenticeship Committee
(Council Bluffs)
R.R. #1
Bennington, Nebraska 68807
- Quad City Plasterers Joint Apprenticeship Committee
(Davenport)
617 South 5th Street
Eldridge, Iowa 52748

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PROGRAMS OF STUDY AND TRAINING

Career Information System of Iowa
Iowa Dept. Of Education
Grimes State Office Bldg.
Des Moines, IA 50319
Phone (515) 281-5501

PLUMBER/PIPEFITTERS

CISI NO. 9012

GROUP: 9000's - APPRENTICESHIP

JOINT APPRENTICESHIP COMMITTEES

- This list contains the names and addresses of Joint Apprenticeship Committees which sponsor registered Plumbing / Pipefitting apprenticeship programs in Iowa.
- The information was prepared by the U.S. Department of Labor, Bureau of Apprenticeship and Training, 210 Walnut Street, Des Moines, Iowa 50309.
- Associated Builders & Contractors, Inc.
4845 Merle Hay Road, Suite A
Des Moines, Iowa 50323
- Cedar Rapids Plumbers & Steamfitters Joint App. Committee
205 - 50th Avenue S.W.
Cedar Rapids, Iowa 52404
- Davenport Plumbers Joint Apprenticeship Committee
702 W. 35th Street
Davenport, Iowa 52806
- Des Moines Plumbers & Steamfitters Joint App. Comm.
2501 Bell Avenue

Des Moines, Iowa 50320

- Dubuque Plumbers & Steamfitters Joint Apprenticeship Committee
164 Main Street
Dubuque, Iowa 52001
- Mason City Plumbers & Steamfitters Joint Apprenticeship Committee
331 South Indiana
Mason City, Iowa 50401
- Omaha Plumbers Joint Apprenticeship Committee
(Council Bluffs)
4801 F Street
Omaha, Nebraska 68117
- Omaha Steamfitters Joint Apprenticeship Committee
13505 B Street
Omaha, Nebraska 68108
- Sioux City Plumbers & Steamfitters Joint Apprenticeship Committee
701 Steuben Street
Sioux City, Iowa 51101
- Southeast Iowa Plumbers Joint Apprenticeship Committee
(Burlington)
P.O. Box 68
Burlington, Iowa 52601

- Waterloo Plumbers & Steamfitters Joint Apprenticeship
Committee
P.O. Box 1866
Waterloo, Iowa 50704



PROGRAMS OF STUDY AND TRAINING

Career Information System of Iowa
Iowa Dept. Of Education
Grimes State Office Bldg.
Des Moines, IA 50319
Phone (515) 281-5501

SHEET METAL WORKERS

CISI NO. 9013

GROUP: 9000's - APPRENTICESHIP

JOINT APPRENTICESHIP COMMITTEES

- This list contains the names and addresses of Joint Apprenticeship Committees which sponsor registered Sheet Metal apprenticeship programs in Iowa.
- The information was prepared by the U.S. Department of Labor, Bureau of Apprenticeship and Training, 210 Walnut Street, Des Moines, Iowa 50309.
- Associated Builders & Contractors, Inc.
P.O. Box 3775
Des Moines, Iowa 50322
- Cedar Rapids Sheet Metal Joint Apprenticeship Committee
P.O. Box 2101
Cedar Rapids, Iowa 52406
- Des Moines Sheet Metal Joint Apprenticeship Committee
124 Washington Street
Des Moines, Iowa 50314
- Omaha/Council Bluffs Sheet Metal Joint Apprenticeship Committee

14515 Industrial Road
Omaha, Nebraska 68144

- Sioux City Sheet Metal Joint Apprenticeship Committee
321 - 5th Street
Sioux City, Iowa 51101
- Southern Ill-Iowa Sheet Metal Joint Apprenticeship Comm.
(Dubuque, Davenport, Burlington)
8124 - 42nd Street, West
Rock Island, Illinois 61201

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PROGRAMS OF STUDY AND TRAINING

Career Information System of Iowa

Iowa Dept. Of Education

Grimes State Office Bldg.

Des Moines, IA 50319

Phone (515) 281-5501

ROOFERS

CISI NO. 9014

GROUP: 9000's - APPRENTICESHIP

JOINT APPRENTICESHIP COMMITTEES

- This list contains the names and addresses of Joint Apprenticeship Committees which sponsor registered Roofing apprenticeship programs in Iowa.
- The information was prepared by the U.S. Department of Labor, Bureau of Apprenticeship and Training, 210 Walnut Street, Des Moines, Iowa 50309.
- Eastern Iowa Roofers Joint Apprenticeship Committee
1211 Wiley Blvd. SW
Cedar Rapids, Iowa 52401
- Quad City Roofers Joint Apprenticeship Committee
(Davenport)
P.O. Box 1027
Rock Island, Illinois 61201

