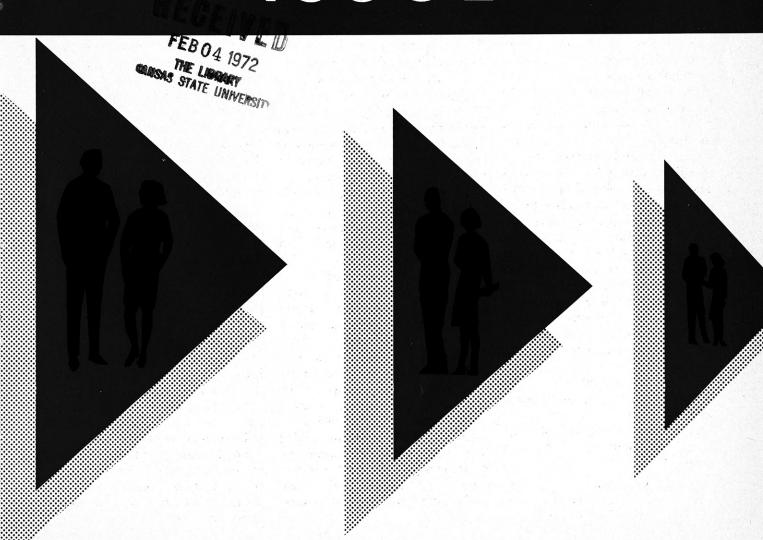
The 4-H Family Magazine

EDUCATION and CAREERS ISSUE



Home economics for me?

By Peggy Sandelin, Wakeeney

Editor's note: This article is based on a speech given by Peggy Sandelin at Regional 4-H Day.

Today there are approximately 40,000 different kinds of jobs in this country, with many new jobs being created each day. Your great-grandfather probably would not even recognize such occupations as astronaut, stewardess, computer programmer, air traffic controller, or textiles technician. As one of the folk songs goes, "The times they area-changing."

So how, with all these choices, does one choose the occupation that's just right? One approach is to select a large field which is appealing and then find the specialty which best fits your abilities and goals.

One of these broad fields chosen by many young women and some young men is home economics. Preparation for a home economics career begins in high school. You should plan to take a regular college preparatory curriculum including chemistry. In college you will take basic home economic courses with a broad background in the sciences and general education. Home economics has bases in the physical and biological sciences for food, nutrition, textiles equipment studies; in the social sciences for family economics and management studies; in psychology for child development and family relations studies; and in applied arts for clothing, interior design and housing studies.

What job opportunities are open to the graduate home economist? Here are a few home economics careers that a student in home economics might consider.

• TEACHING — In some schools you'll teach cooking and sewing only. In others, the

course is expanded to include budgeting, elementary child care, decorating, and family problems. As a home economics teacher, your job is unique because it is personal.

- EXTENSION The extension home economist works with families both rural and urban, with young people and adults in helping them find answers to better living. Each day brings new and challenging activities. Graduates have the opportunity to develop an inspiring program with the people in a county.
- BUSINESS Business firms have two main purposes in hiring home economists: to interpret the needs and desires of homemakers to the company and to increase consumer demand for their company's product. Qualified home economists hold a wide variety of positions in business, including work with foods, equipment, clothing, textiles and home furnishings.
- JOURNALISM Opportunities include writing about foods, clothing, family life or interior decorating for a national magazine, or for a large food or equipment firm, or doing a home page for a newspaper.
- HOUSING AND EQUIP-MENT — In colleges and universities, home economists are found teaching or giving help in housing planning, house architecture, household physics and home sanitation. Home economists try to help homemakers and families answer such questions as: size of house needed: family composition in relation to size and design; the needs of families that are increasing or decreasing in number; leases; costs; remodeling; activities for which families need to provide and their special space needs; requirements for comfort, convenience, and health and house maintenance and care of possessions.

• FASHION DESIGN — Designing is a process by which something new is created; it culminates in original work. The designer's job is to create and execute imaginative ideas that the public will buy. She must be able to predict the fabric, color, and silhouette that will be acceptable at the time a garment is presented on the market.

• INTERIOR DECORATION

- An interior designer selects and organizes the furnishings of home and offices as well as hotels, banks, restaurants, and other public places. She plans the environment where people will live and work. She determines what furnishings are needed, where they will be located, color schemes, fabrics, carpeting, and lighting fixtures. She prepares plans and may also build scale models.
- ◆ DIETETICS The graduate in dietetics prepares to assume responsibility for the promotion of good nutrition among people of all ages and to take leadership in the management of a growing food service industry. Specialization in this field can be used to shape a future occupation which fulfills each person's interests and abilities.
- ◆ HOMEMAKER AND MOTHER — There is no better training for the homemaker and mother than the course of home economics. Even though you may never use your knowledge in working for wages, what a prize you'll make for some lucky man!

Home economics has been mainly a women's field, but men have invaded it. Demand is high for men with special training in food management for restaurants, hotels, college residence halls, employee cafeterias in industry, country clubs and the armed forces. Men also are wanted in textiles, family relationships, nutrition, child development and art.

Journal

Vol. XVIII, No. 2

February 1972

Education and Careers

Daniel Webster said: "Knowledge does not comprise all which is contained in the large term of education. The feelings are to be disciplined; the passions are to be restrained; true and worthy motives are to be inspired; a profound religious feeling is to be instilled, and pure morality inculcated under all circumstances. All this is comprised in education."

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Education is our bridge to tomorrow. Industry today is very demanding of education for its employees. While some positions require a college degree, others require the development of specific skills. We hope this issue will provide information regarding both types of training.

It was our purpose in publishing this issue of the Journal to inform students, parents, guidance personnel, teachers and school administrators of the many higher education opportunities available to students in Kansas. We hope this issue will assist the student in making a wise choice in choosing the ed-

ucational program which will best meet his needs.

After a tentative choice of several schools has been made, the prospective student and his parents should visit each school tentatively chosen before reaching a final decision. In this way, the student and his parents are in a better position to evaluate each school in terms of the individual, his needs, and preferences.

This material has been compiled from information provided by the individual schools and colleges. We are proud to present these colleges and universities of higher learning to you — the prospective student.

Kansas Area Vocational-Technical Schools

Cowley County Community Junior College, division of Area Voc.-Tech. School Director—A. F. Buffo 125 South Second Street Arkansas City, Kansas 67005

Northeast Kansas Area Voc.-Tech. School Director—Melvern Deckard Sixth and Atchison Atchison, Kansas 66000

North Central Area Voc.-Tech. School Director—Bob Severance Box 626, 114 North Hersey Beloit, Kansas 67420

Southeast Kansas Area Voc.-Tech. School Director—George Varley Administration Center McFarland Trade School Coffeyville, Kansas 67337

Southwest Kansas Area Voc.-Tech. School Director—Ralph Dellinger 1000 Second Avenue Dodge City, Kansas 67801

Flint Hills Area Voc.-Tech. School Director—Richard Metcalf 3015 West 18th Avenue Emporia, Kansas 66801

Northwest Kansas Area Voc.-Tech. School Director—Larry Keirns Box 269 Goodland, Kansas 67735

Kansas City Area Voc.-Tech. School Director—Harry Falgren 2220 North 59th Street Kansas City, Kansas 66104

Liberal Area Voc.-Tech. School Director—Clovis Weatherford Liberal, Kansas 67901

Manhattan Area Voc.-Tech. School Director—Darrell Brensing 3136 Dickens Avenue Manhattan, Kansas 66502

Central Kansas Area Voc.-Tech. School Director—Dale Brooks 218 East Seventh Newton, Kansas 67114

Salina Area Voc.-Tech. School
Director—Eugene Lundgrin
Building 658, Salina Airport Industrial Center
Salina, Kansas 67403

Kaw Area Voc.-Tech. School Director—Roy Berry 620 Harrison Topeka, Kansas 66603

Wichita Area Voc.-Tech. School Director—Richard Ladd 301 S. Grove Wichita, Kansas 67214

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School facilities include a complete farm production unit of 875 acres plus equipment and livestock. If you are interested in a professional career in farm and ranch management, you should investigate this program.

Other programs available through the S.E.K. Area Vocational-Technical School include: Machine Shop, Auto Mechanics, Drafting, Printing, Electronics, Business, Cosmetology, Licensed Practical Nursing, and Farm Power Mechanics.

FOR FURTHER INFORMATION WRITE: SOUTHEAST KANSAS AREA VOCATIONAL-TECHNICAL SCHOOL SIXTH & ROOSEVELT COFFEYVILLE, KANSAS 67337

Area Vocational-Technical Schools

By Tom J. Moore State Supervisor

Tom J. Moore, State Supervisor, Area Vocational-Technical Schools, received his B.S. and M.S. degrees from Kansas State Teachers College, Emporia, and has additional graduate work from KSTC at Emporia and Kansas State College at Pittsburg. Mr. Moore is responsible for the administration, supervi-

sion, coordination, and development of the statewide system of area vocational-technical schools. Prior to his present position, he was assistant state supervisor of Manpower Development and Training in Kansas, the Fiscal Officer for the Division of Vocational Education, Kansas State Department of Education.



Area vocational-technical schools are designed to provide vocational and technical education to persons of all ages in all communities of Kansas — those in high school, those who have completed or discontinued their formal education and are preparing to enter the labor market or desire to enter the labor market but need to upgrade their skills or learn new ones, and those with special educational handicaps. The training programs in

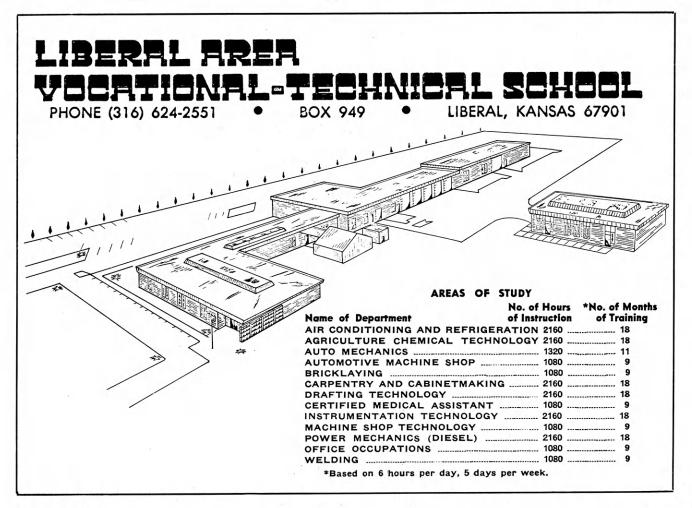
the area schools will provide the skills necessary to become occupationally competent besides providing programs of high quality, which are realistic in the light of actual or anticipated opportunities for gainful employment, and which are suited to the needs, interests, and ability of those taking the training and wishing to benefit from such training.

These various programs are developed under the umbrella of

six general areas: technical, industrial, business occupations, consumer and homemaking, health occupations, and agriculture. During school year 1970-71, the area schools offered 306 programs in 90 different occupational areas.

Also, the programs have builtin flexibility which emphasizes highly individualized instruction

(Continued on page 6)



Voc-Tech Schools —

(Continued from page 5)

to meet the unique needs of today's student. Instructors are specially qualified and highly motivated with occupational competence, certified on the basis of (1) successful trade or business experience in field instructing and (2) professional preparation.

In 1969, when the bill governing area schools was amended, the age limit was dropped and the tuition procedure was revised. As a result, the home unified school district in which a student resides is responsible for payment of tuition to attend an area vocational-technical school unless the same training is offered within the home district. In such case, the student has to pay his own tuition, if he goes to a school outside his district.

About 6 per cent of the nation's work force is out of a job, yet many jobs are going begging, especially those requiring technical skills. Depending on the place, more welders, policemen, nurses, physical therapists,

auto mechanics, and other skilled workers are needed. The goal of Kansas vocational-technical schools is to provide training for

jobs in Kansas or nearby states. Most graduates are able to find work and to fill a need in society.

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and the jobs are for everybody else. Ten years ago they **may** have had a point. But something's happened recently to change all that. our sumerning's nappened recently to change an indi-Every new or science has had a preaking simply this. Cine-aviation. What does all this mean to you? Simply this. ne-aviation, aviid toes an inis mean to your simply this. Ifterally by These breakthroughs are creating career opportunities. the millions. The demand for people with technical skills is growing the minions. The Demand of people with technical skills is growing twice as fast as any other group...while jobs for the untrained are decreasing

There aren't enough applicants to fill technical positions open now. Yet the U.S. Government estimates well over 1,000,000 more positions decreasing. Where do you fit in? If you have a good scientific or technical

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What's new?

For the first time Kansas 4-H Journal presents this column to inform readers of (mostly) new courses offered at vocational-technical schools, junior colleges, and four-year colleges in Kansas, plus information about some changes in these schools.

LIBERAL AREA VOCATIONAL-TECHNICAL SCHOOL, Liberal

Medical assistants: A new program prepares students to assist the physician in his office. Nine months in length, this course offers a variety of experiences both in secretarial or administrative duties as well as in clinical or nursing duties. It includes some practical experience in a doctor's office for class credit.

Guidelines for the curriculum have been approved by the American Medical Association and lead toward qualifying the student to take a national certifying examination. When a person passes this examination successfully, she earns the title C.M.A., Certified Medical Assistant, and is marked as well qualified in the field.

MANHATTAN AREA VOCATIONAL-TECHNICAL SCHOOL, Manhattan

Electric power and distribution: This course is programmed to provide well trained personnel for the electrical service and construction companies of Kansas and surrounding states. Students receive both field training and practical theory in all phases of power line installation and maintenance.

Field training is conducted in an "out-of-doors" school laboratory. It covers climbing, setting and removing poles, framing, installation of services, and other phases of power distribution. The related training is conducted in an indoor laboratory and classroom and covers electricity, blueprint reading, construction techniques, transmission, distribution systems, underground procedures, and safety.

Marine mechanics: This course offers instruction in two and four cycle engines such as the lawn mower, chain saw, and motorcycle engines. High school juniors and seniors, post graduate students, and adults who have an interest and an aptitude for this type of work may take this class. Because Manhattan AVTS is located within 30 miles of the largest reservoirs in Kansas, this presents tremendous job opportunities in the marine mechanics field.

Computer data processing: This 18 month class which trains individuals to be programmers is geared for the post high school level person who has strong logical and creative abilities with an unlimited supply of patience. Students receive complete hands-on training on all of the school's equipment which consists of key punches, verifiers, interpreter, sorter, reproducing punch, collator and accounting machine, and two computers. The students receive training in five programming languages on the computers.

SALINA AREA VOCATIONAL-TECHNICAL SCHOOL, Salina

Environmental water control: This one year program is intended to supply the student with a background of knowledge in the diverse areas of applied sanitation which relate to water and wastewater. It offers a firm foundation in sanitary chemistry, water supply and wastewater collection, water purifica-tion, wastewater treatment, and water pollution control. Intensive laboratory-oriented instruction is co-ordinated with classroom study and on-the-job training to supply the graduates with the background material to find employment in many areas of the sanitation, public health, and physical facilities operations.

SOUTHWEST KANSAS AREA VOCATIONAL-TECHNICAL SCHOOL Dodge City

SCHOOL, Dodge City
Truck driver: This is the only public truck driver program in this area. It is one of the most dramatic examples of vocational education. With six weeks of training, the student is being placed in positions paying \$150 to \$258 a week.

Cosmetology: Facilities and equipment of the Dodge City School of Cosmetology have been completely up-dated this year. Both young men and women have been students and most have gone to interesting, well

paying positions. Practical nursing: Not new, but making a major contribution to health occupations education in Kansas, is the practical nursing program. In cooperation with Dodge City Community College, the Southwest Kansas Area Vocational-Technical School developed one of the first practical nursing programs in Kansas and has graduated some 45 to 50 persons each year. Graduates find positions in the clinics, nursing homes, and hospitals of southwest Kansas and are highly accepted members of the health team.

(Continued on page 10)

SOUTHWEST KANSAS AREA VOCATIONAL TECHNICAL SCHOOL

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Most programs may be taken as part of an AA Degree, two year course, in cooperation with Dodge City Community College.

V. A. APPROVED - STATE ACCREDITED

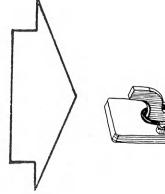
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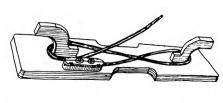
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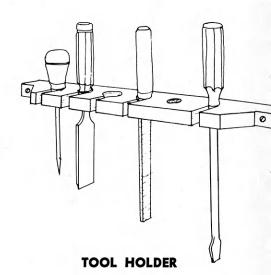


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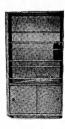
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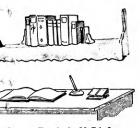
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What's new? -

(Continued from page 7)

If a technical school is not your choice for post-high school training, you'll consider Kansas' many colleges. They vary in many ways; in size, for example, enrollments range from fewer than 1,000 to close to 20,000. Community, municipal, state supported, church related, liberal arts, Christian—all these categories of colleges are found in Kansas. So how do you decide which school is right for you?

Talk with your high school counselor; perhaps he can recommend the college to meet your needs and interests. Get your parents' ideas. Rap with students or alumni of the schools you are interested in. Visit campuses and talk with admissions counselors.

And study the source of information you are using now. Read the articles, advertisements, and the "What's new?" column in Kansas 4-H Journal's

Education and Careers issue.

SEWARD COUNTY COMMUNITY JUNIOR COLLEGE, Liberal

Agricultural economics: This is a study of economic principles, with emphasis on their application to the solution of agricultural problems. The course treats problems encountered in the operation of farms and agribusiness firms as well as problems of concern to the agricultural industry in its relationship to other sectors of the United States economy and that of selected foreign countries.

Legal secretary program: The course is a study of the responsibilities, duties, and functions of the legal secretary relative to employers, clients, and others. It includes legal procedures related to appellate, criminal, federal administrative, civil, probate, and corporate law. The course also covers legal bibliography and research. The main objectives are (1) to enable the inexperienced or novice secretary to secure background information about the professional requirements and job duties of professional legal secretary work, (2) to prepare for the National Legal Secretary Examination, and (3) to provide for all students a technical understanding of the various phases of the practice of law generally and particularly to help the student improve his skills in the areas of written communication, human relations, secretarial procedures, office management, secretarial accounting, legal terminology, technique, and procedure.

CENTRAL COLLEGE, McPherson

Home economics: Central College and McPherson College have recently established a cooperative program in home economics. Central students may now attend McPherson College for some courses including child development, tailoring, and textiles, while McPherson College students may come to Central to study foods, clothing construction, and nutrition. This program gives students a chance to know more people from various backgrounds, to study in two college home economics departments in one semester, and to explore more deeply their chosen

DONNELLY COLLEGE, Kansas City

American Civilization: This course introduces international students to geography, history, politics, literature, art, music, and general culture of the American people. Audio-visual aids are used freely in the lecture presentations which are followed by opportunity for questions and discussion.

Developmental program: This one-semester program is offered each fall for students whose academic background is weak. Included are specially designed courses in English composition and communications, developmental reading, speech, introduction to mathematics, and introduction to psychology (a personal adjustment approach). All courses carry college credit. Upon successful completion of the program, students are qualified to move into the regular curriculum and to elect their own courses under the guidance of a faculty adviser.

Silversmithing: This workshop will be offered at Donnelly during the January interim term. Concentration is on jewelry and silversmithing techniques

with special consideration given to good design principles. There is no prerequisite although a previous course in design or drawing is recommended. Finished projects are displayed at the end of the workshop.

Ecology: This course stresses principles underlying the interrelationships of organisms and their environment which form the basis for the study of the problem of pollution.

(Continued on page 12)

CENTRAL a college that cares



Religion today. Is there such a thing? Do church and religion go together? Do religion and life go together? Your questions on religion must be answered. Your need for "giving unto others" must be fulfilled. They are. In a college that has a religious program that is involved with you. Central College. A college that cares. If you care about your educational future write.

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Values are important in choice of career

By Margery A. Neely Extension Specialist, 4-H Child and Youth Education

A high school senior asks, "How can I find out what I'm going to BE?" Another wonders, "Why did so many of my friends end up taking just any job?"

end up taking just any job?"
Values give the direction to a decision at any one point in time, direction to even those decisions based upon a hard look at one's interests and abilities and the work world. Values describe the importance we place upon certain satisfiers in relation to other satisfiers. If money is paramount in the value system, then any job will do.

then any job will do.

Few people "choose" a lifelong career! Most people make a series of choices. Each choice is based upon: first, what is most important — most valued — at the time the decision is made; second, what the person knows

of himself in regard to his strengths and interests; and, third, what the person knows of the world of work.

For some groups of occupations, career choice could be a continuing process until almost middle age without significant loss in productivity. For example, within an industrial organization, a man might first be a salesman, then a technical representative, then a director of public relations, then a manager.

In a few occupations, such as practicing physicians, career choice is made early, and the commitment of time in the years of schooling narrows the choices that can be made. Of course, not all MD's practice medicine, either. In fact, if a survey were made of the graduates of a registered nurse program, positions

(Continued on page 12)



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Values are important —

(Continued from page 11)

would be described in industry, journalism, teaching, psychiatric work, administration, public health, hospitals, doctors' of-

fices, and clinics.

In long-range planning, the first question that should be considered is "Over my lifetime, what do I want most from my work?" The answers can be vague at this point in time, or specific to the point of saying, "I want to serve crippled children by teaching them." Prestige, working with data, working with animals, adventure, variety in job duties, independence, security, and so on, can come up for consideration.

Know what you like

Knowing what one likes to do usually also indicates what one does well, and further, school grades for subjects that are related to the work world may be helpful in assessing abilities.

Experience with the work world in part-time jobs, in observing men and women at work, and in doing a lot of browsing in

literature of 1970-style jobs helps give one a feel for the vast array of jobs. But, happily, within the vast array, there will be only a few general areas that interest any one person.

The pattern of careers can shift from work to training throughout the career. That is, a high school graduate may work, receive on-the-job training, or go to post high school training, in any order.

Many college graduates end up in career positions that bear no relationship to their college

major.

The important thing, therefore will be zeroing in on the value — the importance — of the new and old situations to the individual himself. Then, comparing the value strength of a proposed situational change with the strength of the old situation will enable a thoughtful decision to be made.

Knowing what is valued as individually meaningful over the years ahead means the many decisions will build each upon the other in as satisfactory a decision as possible at that point in time.

How About The Newspaper Business?

If you are thinking about following a business or professional career, why not spend an hour visiting with your home town editor and learn about the possibilities in journalism?

The newspaper business offers an opportunity for a most interesting and rewarding life for the young man or woman who has a broad educational background, a liking for people, courage, and a desire to have an active part in the American way of life.

A good newspaper man has the satisfaction of knowing that he is helping others to a better life. He remembers that "The People Have The Right to Know" and, that there is no better way to have a well informed Democracy than through the printed word.

Before you make up your mind on your life's work, please think seriously about journalism. Thousands have found it a most enjoyable and rewarding career. Maybe you?

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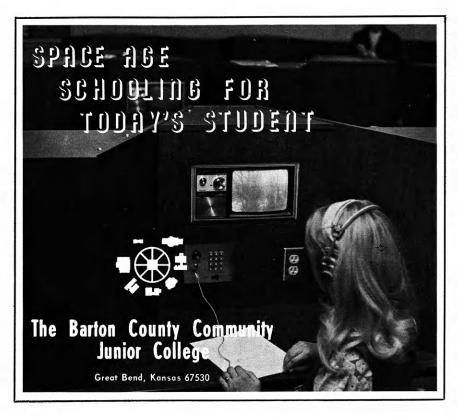
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What's new?



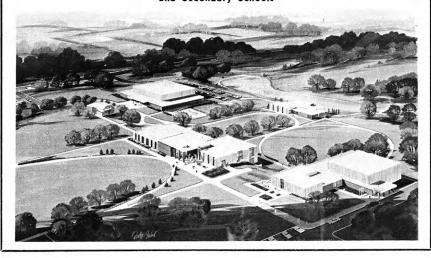
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KANSAS CITY KANSAS COMMUNITY JUNIOR COLLEGE, Kansas City

Reprographics: This program, in its first year at KCKCJC, is geared to train an individual for the mid management level of the printing industry, attempting to bridge the gap that exists between the production printer and the company executive.

The curriculum requires 64 college hours of course work for completion. Not only does the curriculum include training and theory on the newest complex equipment, but training in management, as well as business practices, is included. Graduates could expect to find positions with companies in the areas of in-plant supervision, commercial art, production coordination, and customer relations.

Nursing: The two-year program leading to the Associate in Arts Degree in Nursing is comprehensive, offering general education, nursing courses, and clinical experiences at local hospitals and health agencies. This program has been designed to prepare men and women to function as beginning technical nurses. The graduate achieves registered nurse licensure in Kansas by passing State Board of Nursing examinations. As a registered nurse the individual will have ample opportunity for gainful employment. Applications are accepted from men and women regardless of age or maritial status.

Mid-management: This program, in its second year at KCKCJC, is structured to provide supervised work experience and a college curriculum related to the job. The goal of this program is progress on the job. Upon completion of the two-year program, which was approved and developed by area businessmen respected for their success and ability, the student employees will have worked themselves up to a responsible position.

Professional secretarial administration: This program was developed because there appears to be a growing demand for well-trained, high-quality secretaries who possess decision-making abilities. Such employees must possess a high degree of skill, be able to make decisions and solve

(Continued on page 14)

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What's new? -

(Continued from page 13)

problems without supervision, be able to communicate orally and in writing, and be able to work cooperatively with others. In addition, they should be capable of relieving the executive of detailed work so that more of his time could be used in the planning and in the organization of his business.

This curriculum has a high degree of flexibility so the learner who is interested in becoming a legal, a bilingual, or a medical secretary can find a course of study designed for her needs. In addition, an associate degree is granted upon completion of this two-year course of study.

COLBY COMMUNITY COLLEGE, Colby

Animal hospital technology: This two-year program, now in its second year at CCC, offers young women and men a career as a nursing assistant in the medical office of a veterinarian. A technician in this field performs a variety of work in a veterinary hospital similar to

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those combined tasks of a licensed practical nurse, registered nurse, surgical nurse, x-ray technician and others of the hu-

man field of medicine.

A woman's ability to handle pets, people, office procedures, nursing, housekeeping chores, and clinical laboratory tests in a medical office is helpful. The need for men is increasing in large animal practices to work in restraint procedures and other tasks related to the care and nursing of large animal patients. Almost all of these medical practices now have hospitals and men will be expected to perform all of the functions previously mentioned for women.

DODGE CITY COMMUNITY COLLEGE, Dodge City

Fashion merchandising: This specialized two-year curriculum presents many opportunities for men and women who have imagination, creative ability, and who enjoy promoting new fashion ideas and products. To the college trained person with ability and practical experience, fashion merchandising offers future opportunities in the following areas: sales representative, buyer, fashion designer, fashion consultant, advertising, and display.

sultant, advertising, and display.

Pre-school child care: This program offers the student a chance for experience and training in the true life setting of the Group Day Care Center. Labora-

tory experience will enable the student to observe behavioral patterns of the pre-school child, and the student will also learn textbook theory. The program will enable students to transfer to Kansas State University in the field of Early Childhood Development.

Agricultural technology: The agriculture technology department will expand its curriculum to include two new courses.

1. Truck and heavy equipment mechanics will provide training for occupations in diesel truck mechanics and heavy equipment field. The course will involve classroom and laboratory experience under direct supervision of experts in the field.

2. Turf management will provide training for students who desire to go into the occupation of nurseryman, or into park supervision, or golf course supervision and maintenance. These

are two-year courses.

Drafting technology: This two-year program trains students for drafting in manufacturing plants and engineering firms.

COFFEYVILLE COMMUNITY JUNIOR COLLEGE, Coffeyville

Medical laboratory technician: In this two-year program the student will identify and explain the basic principles of organic and biological chemistry. He will explain and outline the basic principles of blood banking, and will also perform and explain basic clinical histological techniques. The student will identify and interpret the theories and principles of clinical hematology, and will outline cultural conditions and specialized tests used in identifying various pathogens.

in identifying various pathogens. Surveys of Kansas hospitals and medical laboratories reveal a large demand for trained personnel in this field. CCJC hopes to place 100 per cent of the graduates of this program at salaries of \$500 to \$800 a month.

Audio-tutorial shorthand: The following educational media is provided for the student to advance at his ability level in shorthand: tapes, slides prepared from transparencies, closed circuit television, and handout sheets to reinforce learning. The method that fits the student is created to enable him to progress without frustration.

Typing: This course at CCJC is unique, fascinating, and fills an educational need. A student may enroll in typewriting and take a pre-test and be placed in the area that his ability indicates. All students progress at the rate that suits them. Some students can type for two or three hours a day and they will complete one course and start on another if they so desire. Other students may spend two semesters finishing the objectives that they would have never finished in a traditional one-semester classroom situation. Special materials aid the students.

CLOUD COUNTY COMMUNITY COLLEGE, Concordia

Vocational program: A new vocational program unique in the state of Kansas is being offered here. With the cooperation of the North Central Kansas Area Vocational-Technical School at Beloit a student may spend one year on the Cloud County campus and one year on the Beloit campus and earn an Associate of Arts Degree from Cloud County Community College in one of the following areas: auto mechanics, carpentry-cabinetmaking, data processing, diesel mechanics, electricity and electronics, and farm equipment mechanics.

This cooperative program, the only one of its kind in Kansas, is designed to prepare the student for a high level of achievement.

(Continued on page 24)



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Look at junior college it may be right for you

The two-year college has fueled a giant leap in education by putting college within the commuting and financial reach of many. The junior college tends to offer a campus life in a residential situation drawing students from a wide geographic area and to emphasize liberal arts education that will eventually lead to a transfer to a four-year institution.

Educators agree that all high school graduates need further training to compete in today's job market, but also agree that this training need not be in the traditional liberal arts curriculum. Statistics show that a student forced into seeking a liberal arts degree has a good chance of failing, but could succeed if he or she chose a career course that was aimed at a specific field or skill.

For the student unsure of what he wants to do

— the ideal program in high school is college
preparatory plus vocational training. Today vocational training means acquiring skills in literally hundreds of areas that qualify the student for a

specific job.

The advantage of the junior college is that it is normally within the commuting distance of home and has very low tuition in comparison to the private and public four-year schools. Enrollments often do not exceed 2500 in Kansas, which makes for a more personalized attitude, and entrance requirements are less stringent.

Many of the career opportunities that are developed in the Kansas junior colleges are geared to needs of this region as worked out by educators and industry. The impact of automation on society is another reason for the need and success of the community junior college. The advances made in science, technology, and automation have improved working conditions but have sent millions of people back to school for updating working skills. Because it is estimated that the average young U. S. citizen will change his type of work five times in his life, education has, of necessity, become a life-time process. The community junior college has become invaluable as a training ground for vocations in the field of technology.

About 96 per cent of all scientists who have ever lived are living today. There are almost 200,000 new technical jobs coming into being an-

nually in the U.S.

The fantastic growth of junior colleges was largely a phenomenon of the 1960s, but new ones are breaking ground at the rate of more than one a week. We now have more than 1,000 junior and community colleges in the U.S.

Japan now has the second largest number of junior colleges in the world and the junior college movement is spreading rapidly to India, Latin

America and Africa.

Aside from the advantages of lower costs and, for many students, being within cummuting distance, junior colleges offer some vocational and technical courses not found in the larger universities. The courses are not only available; they may prepare the young person for a job in two years. Degrees offered which can be attained in two years are called associate degrees.

Some 85 per cent of all high school graduates

who complete vocational training find work in their chosen fields.

So-look at junior college-it may be right for you!

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Highland Community Junior College

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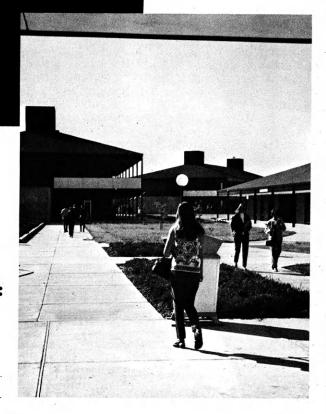
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Mr. V. James Sherer Director of Admissions and Records Dodge City Community College Dodge City, Kansas 67801

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address	
city and state	



KANSAS TWO-YEAR COLLEGES

Public Community Junior Colleges	Location (Equated Full-Time) Enrollment	Tuition Per Sem. (Kans. Res.)	Room & Board Per Sem.	On Campus Housing Capacit	WRITE FOR INFORMATION
Allen County Community Jr. College	Iola	546	\$4 credit hr.	\$325	96	Registrar, Allen County Community Jr. College, 1801 N. Cottonwood, Iola, Kans. 66749.
Barton County Community Jr. College	Great Bend	1,153	\$6 sem. hr.	\$500		Director of Admissions, Barton County Comm. Jr. College, Great Bend, Kans. 67530.
Butler County Community Jr. College	El Dorado	1,374	\$4 sem. hr.	\$375	56 men 56 women	Leonard McKinney, Registrar, Butler County Com-
Cloud County Community College	Concordia	608	\$5 hour	\$350-\$400	60 women 40 men	
Coffeyville Community Jr. College	Coffeyville	802	\$4 credit hr.		40 men 40 women	Director of Admissions, Coffeyville Community Jr. College, Coffeyville, Kans. 67337.
Colby Community College	Colby	833	\$5 credit hr.	\$410	80 men	Robert Burnett, Dean of Admissions and Regis-
Cowley County Community College & Vocational-Technical School	Arkansas Cit	y 537	\$5 credit hr.	\$ 525	120 women	Miss M. M. Williams, Admissions Officer, Cowley County Community College, Arkansas City, Kans. 67005.
Dodge City Community College	Dodge City	795	\$150 for 10 hrs.	\$440		V. James Sherer, Director of Admissions and Records, Dodge City Community College, Dodge
Fort Scott Community Jr. College	Fort Scott	650	or more (including \$4 hour	incidental fees) \$420		City, Kans. 67801. Registrar, Fort Scott Community Jr. College.
Garden City Community Jr. College	Garden City	711	\$6 hour	\$450	60 men 62 women	2108 S. Horton, Fort Scott, Kans. 66701. Charles D. Michael, Registrar, Garden City Community Jr. College, Garden City, Kans. 67846.
Highland Community Jr. College	Highland	630	\$4 credit hr.	\$300-\$350		Douglas L. Fitch, Director of Admissions & Counseling, Highland Community Jr. College. Highland, Kans. 66035.
Hutchinson Community Jr. College	Hutchinson	2,210	\$4 credit hr.	\$357	400	Miss Reba Anderson, Director of Admissions, Hutchinson Community Jr. College, Hutchinson, Kans. 67501.
ndependence Community Jr. College	Independence	e 511	\$4 credit hr.			Director of Admissions, Independence Community Jr. College, Independence, Kans. 67301.
Johnson County Community College	Shawnee Mis		\$10 credit hr.			Director of Admissions, Johnson County Comm. College, Shawnee Mission, Kans. 66203.
Kansas City Kansas Community Jr. College	Kansas City	1,540	\$8 sem. hr.			Director of Admissions and Registrar, Kansas City, Kans. Community Jr. College, 824 State Ave., Kans. City, Kans. 66101.
abette Community Jr. College	Parsons	402	\$4 sem. hr.			Labette Community Jr. College, 200 South 14th St., Parsons, Kans. 67357.
Neosho County Community Jr. College	Chanute	493	\$4 credit hr.	\$375-\$400	40 men 40 women	Joseph B. Smith, Director of Admissions, Neosho County Community Jr. College, Chanute,
Pratt Community Jr. College	Pratt	451	\$6 credit hr.	\$375	48 men 48 women	Director of Admissions, Pratt Community Jr. College, Pratt, Kans. 67124.
Seward County Community Jr. College	Liberal	425	\$4 credit hr.	\$400		Director of Student Services, Seward County College, Liberal, Kans. 67901.
Private Two-Year Colleges						
Central College	McPherson	185	\$550	\$450	165	Director of Admissions, Central College, McPherson, Kans. 67460.
Donnelly College	Kansas City,	Ks. 445	\$18 sem. hr.	1		Donnelly College, 1236 Sandusky, Kans. City. Kans. 66102.
Hesston College	Hesston	445	\$575	\$413	550	Director of Admissions, Hesston College, Hesston, Kans. 67062.
Miltonvale Wesleyan College	Miltonvale	125	\$400	\$375	200	Wesley L. Knapp, Director of Admission, Milton- vale Wesleyan College, Miltonvale, Kans. 67466.
St. John's College	Winfield	321	\$325-\$375	\$385	350	Wallace Behrhorst, Director of Admissions, St. John's College, Winfield, Kansas. 67156.
State Technical Institutes						,
Kansas Technical Institute	Salina	200	\$135	\$470	400	Director of Admissions, Kansas Technical Insti-
Vocational Technical Institute (Kans. State College of Pittsburg)	Pittsburg	280	\$191	\$435	1,280	tute. Salina, Kansas 67401 Leland D. Boone, Director, Vocational Technical Institute, Kans. State College of Pittsburg, Pitts- burg, Kansas 66762.

hansas 4-Year Colleges

School		ed Full-Time) prollment	Туре	Affiliation	Accreditation
Baker University	Baldwin	864	Coed	Methodist	Kansas State Department of Public Instructio Nat'l. Council for Accred. of Teacher Educatio University Senate of the Methodist Churc American Assoc. of Univ. Women*
Benedictine College	Atchison	1,300	Coed	Catholic	Nat'l. council for Accred. of Teacher Educatio State Dept. of Public Instruction; Nat'l. Association of Schools of Music; Nat'l. Catholic Ed cation Association*
Bethany College	Lindsborg	734	Coed	Lutheran	Kansas State Department of Public Instructio North Central Regional Assn.*
Bethel College	North Newton	489	Coed	Mennonite	Kansas State Department of Public Instructio
College of Emporia	Emporia	630	Coed	Presbyterian	North Central Regional Assn.; Kansas Depar ment of Public Instruction; American Associatio of University Women; North Central Region Assn.*
Fort Hays Kansas State College	Hays	5,300	Coed	State	Nat'l Council for Accred. of Teacher Educatio Nat'l. Ass'n. of Schools of Music; America Association of University Women, North Centr Regional Assn.*
Friends University	Wichita	925	Coed	Soc. of Friends	Nat'l. Council for Accred. of Teacher Educatio Nat'l. Association of Schools of Music*
Kansas State College of Pittsburg	Pittsburg	5,374	Coed	State	Nat'l. Council for Accred. of Teacher Education Nat'l. Association of Schools of Music; Nat' University Extension Association; American Association of Colleges for Teacher Education*
Kansas State Teachers College	Emporia	7,112	Coed	State	Nat'l. Council for Accred. of Teacher Education Nat'l. Library Association; Nat'l. Association Schools of Music*
Kansas State University	Manhattan	14,789	Coed	State	Professional Accred.; Arch.; Chem.; Engineerin Journalism; Music; Veterinary Medicine; Nat' Council for Accred. of Teacher Education*
Kansas Wesleyan	Salina	641	Coed	Methodist	University Senate of the Methodist Church AAUW and Kans. State Dept. of Education*
Marymount College	Salina	610	Coed	Catholic	Nat'l. Council for Accred. of Teacher Education Nat'l. League for Nursing, Nat'l. Assn. Schools of Music*
McPherson College	McPherson	625	Coed	Brethren	Kansas State Department of Education; Kans Assn. of Colleges and Universities; North Centr Regional Assn. •
Mid-America Nazarene College	Olathe	812	Coed	Nazarene	Recognized Candidate Status*
Ottawa University	Ottawa	760	Coed	Baptist	American Baptist University*
Sacred Heart	Wichita	542	Coed	Catholic	Kansas State Department of Public Instruction*
Saint Mary College	Xavier	600	Women	Catholic	Nat'l. Council for Accred. of Teacher Education Nat'l. Association of Schools of Music; AAUV and Kans. State Dept. of Education*
Saint Mary of the Plains College	Dodge City	467	Coed	Catholic	Kansas State Department of Public Instructio NCATE, Nat'l. Assn. of Schools of Music*
Southwestern College	Winfield	666	Coed	Methodist	Kansas State Department of Public Instruction Nat'l. Association of Schools of Music*
Sterling College	Sterling	527	Coed	Presbyterian	Kansas State Department of Public Instruction American Association of University Women*
Tabor College	Hillsboro	424	Coed	Mennonite	Kansas State Department of Public Instruction
University of Kansas	Lawrence	20,000	Coed	Brethren State	Various National and State Associations in Law Medicine, Architecture, Pharmacy, Art in Fin Arts, Journalism, Business, Music, Education an Engineering*
Washburn University	Topeka	3,910	Coed	Municipal	Nat'l. Council for Accred. Teacher Education Association of American Law Schools; America Bar Association; American Association of Univ Women; Nat'l. Ass'n. of Schools of Music*
Wichita State University	Wichita	9,665	Coed	State	Nat'l. Council for Accred. Teacher Education Nat'l. Association of Schools of Music; Eng neers, Council for Professional Development American Chemical Society Committee for th Professional Training of Chemists*
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Tultion Per Sem.	Room & Board Per Sem. (in residence halls)	Estimated total yearly cost for a student (including tui- tion, room & board, books, supplies & personal expenses)	On Campus Housing Capacit	SCHOLA	RSHIPS Average Amount	WRITE FOR INFORMATION TO
\$725	\$450	\$2390	800	250 (includes fraternity and sorority houses)	\$500	Director of Admission, Baker University, Baldwin City, Kan- sas 66006.
650	465	2600	1,153	235	\$700 (renewable for 4 years)	Benedictine College, Director of Admissions, North Campus, Atchison, Kans. 66002.
695	437	2265	640	210	\$500	Director of Admissions, Bethany College, Lindsborg 67456.
760	435	2715	620	163	\$365	Office of Admissions, Bethel College, North Newton 67117.
490	476.50	2425	420	40	\$400	Director of Admissions, The College of Emporia, Emporia 66801.
188.50+\$1.00 per cr. hr. for HPER complex	425	1500–1800	1,712	125	\$200	News and Publications Office, Fort Hays Kansas State Col- lege, Hays 67602.
395 per quarter	335 per quarter	2250	188	150	\$300	Office of Admissions, Friends University, Wichita 67213.
191	†425–475 application fee on-refundable	1850–1950	1,600	353	\$225	Office of Admissions, Kansas State College of Pittsburg, Pittsburg 66762.
188	455	1850	2,100	200	\$200	Office of Admissions, Kansas State Teachers College, Em- poria, Kansas 66801.
238	468	2000	5,000	750	\$256	Dean of Admissions and Records, Kansas State University Manhattan 66502.
850-900 (Guaranteed Tuition)	450-475	2900	600	105	\$425 (per year)	Director of Admissions, Kansas Wesleyan, Salina 67401.
700	500-575	2825	350	185	\$500	Admissions Director, Marymount College, Salina 67401.
620 Room	1 280–440 1 252	2134–2294	589	Unrestricted numb up to \$675 pe	er available, er year.	Raymond H. Elbert, Director of Admission, McPherson College, McPherson 67460.
450	410	1900	620	200	\$200	Director of Admissions, Mid- America Nazarene College, Box 1776, Olathe, Kansas 66061.
1050 Single Fee \$290	400 00	3500	768 m	any available	\$300	Keith W. Hubbell, Director of Admission, Ottawa University, Ottawa 66067.
625	425	2450	348	100	\$400 per yr.	Director of Admissions, Sacred Heart College, Wichita, Kansas 67213.
475	413	2275	450	70	\$400	Director of Admissions, Saint Mary College, Xavier 66098.
638	437	2150	620	169	\$305 renewable	Director of Admissions, Saint Mary of the Plains College, Dodge City 67801.
700	400	2300	565	280	\$400	Director of Admissions, South- western College, Winfield 67156.
700	455	2610	575	Many Ava	ilable	Director of Admissions, Sterling College, Sterling 67579.
650	450	2400	400	145	\$300	Director of Admissions, Tabor College, Hillsboro, Kansas. 67063.
233	450	1900	5,200	1,650	\$400	Office of Admissions, University of Kansas, Lawrence, Kansas 66044
17-26 per credit hour plus \$25 activity fee per semester	480	1700	339	500	\$300	Registrar and Director of Admissions, Washburn University, Topeka 66621.
225 (15 hour load) † Two food ser	462.50	ilable halls	391 private residence adjacent to cam will accomodate students)		\$275	Dean of Admission and Records, Wichita State Univ., Wichita 67208.
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Careers a plenty

in agriculture and natural resources

By Dr. Carroll V. Hess Dean, College of Agriculture Kansas State University

Are you looking for beauty, relevance, meaningfulness? You may find them in a curriculum in agriculture and natural resources. In such a curriculum, you work with ideas and with living organisms — people, soils, and animals — and begin to understand their relationship with you — and with all people.

The idea that man "controls" nature is replaced with understanding of man's place in nature's world. Thus, agriculture, because it is so closely associated with living things and natural resources, offers you an opportunity to make learning a personal, current experience that helps you appreciate and understand all the beauty about you.

The beauty and excitment of studying and working for harmony among living things (including people) is heightened as you realize that is the most promising approach for reversing land, water, and air pollution; attaining peace; and feeding and stabilizing human populations to harmonize with populations of other animals and plants.

The best way to study ecology, in general, is in a curriculum of your choice in agriculture. To learn about ecology, you study organisms — people, earth, air, and water. That most such studies are in agriculture seems to have been overlooked — especially by youth from cities.

Hunger, the greatest threat to peace and stable governments, is the primary problem of nearlhalf the earth's human population. Decreasing and stabilizing birth rates — while increasing food production, conserving water and soil, and withdrawing pollutants from air, water, and soil — is the Herculean task that will require the lifetime energy and talent of literally millions of persons now in high school or college.

Youth who have served in the Peace Corps, VISTA (Volunteers in Service to America), IVS (International Voluntary Services), or with other groups in a developing nation have found that knowledge of agriculture is most wanted and needed. Many (including youth) who have been in military, religious, government, or other services abroad, return to take courses in agriculture.

So, learning in an agricultural curriculum may become a personal, NOW experience — marbring a feeling of close kinship and harmony with the beauty about you.

The world is today's ag campus

Today the planet earth is the agricultural campus. Thousands of graduates of U.S. agricultural colleges hold administrative and scientific positions in this country and increasingly in nearly all non-Communist countries through international programs or with international agribusiness or agri-industry companies. Three of the large employers the Agency for International Development, the Food and Agriculture Organization of the United Nations, and the Peace Corps have some 5,000 agriculturists in more than 100 countries. Ag is big business today

In the United States, agribusiness, agri-industries, banks, and state, city, and community-planning agencies hire consultants, technicians, and managers with agricultural degrees.

Six million persons are suppliers of feed, fertilizer, chemicals, seeds, machinery, tools, buildings, petroleum products, electric service, legal services, management services, advertising, public relations, broker services, investment counseling, banking services, and other items and services necessary in modern farming. Such U. S. businesses employ six million persons.

An additional 10 million are required to fabricate, process, and transport food and fiber. Literally thousands of firms assemble, process, and market farm crops, livestock products, and timber. More than 40 per cent of recent agricultural college graduates are employed by such firms. In fact, more persons are employed to transport, distribute, and market farm products than to produce them.

Producers are the backbone of agriculture

Agriculture is a gigantic, vigorous, growing industry — stimulated to further growth by its myriad products and worldwide activity; \$300 billion is invested in farms, equal to half the value of all corporate stocks on the New York Stock Exchange.

Production of food, fiber, oil, seeds, and forest products is the backbone of agricultural and agriculture-related industries. Primary producers are commercial, scientific farmers who are efficient, skilled, educated. Such farmers understand basic principles of automation, computer technology, power operations, breeding, nutrition, pest control, soil and crop management, irrigation, resource management and conservation, finance and marketing, and related subjects essential to their businesses. Many are college graduates.

Increasing awareness that ecological factors influence the quality of living is increasing the demand by state and local governments for persons with degrees in agriculture. Opportunities are similar to those offered by the U.S. Department of Agriculture, the largest employer of agricultural graduates. Students who study biology, wildlife, for-estry, agronomy, chemistry, horticulture, entomology, sociology, geology, engineering, political science, or range management are among those sought to help conserve our natural resources. Needed around the earth are those with special skills in handling soil, water, forests, fisher ies, wildlife, and all the natural resources.

(Continued on page 26)

Men: Consider nursing

What if your son decides to be a nurse? At one time your reaction probably would have been much different than it is today. But now, increasing numbers of men are making the once feminine profession of nursing a respectable male pursuit.

Some are coming to nursing from some of the fields where the economic squeeze has been sharp. Others are out of the service with a bonus experience

as medics.

Men nurses provide qualities sometimes missing from an all-girl nursing corps. Even with career orientation, women do not always provide a stable continuity within the profession. They may marry — most nurses do and most have children. A man goes into this profession with the idea that it is a career and he wants to advance in it.

What's new? -

(Continued from page 15)
GARDEN CITY COMMUNITY
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Garden City
Nursing: The program leading to an associate degree in nursing extends over two academic years and prepares both men and women for technical

nursing. Throughout the program, general education courses and nursing courses at the college are combined with patient care experience in the hospital and other health agencies of the community. A period of time is devoted to psychiatric nursing at Larned State Hospital.

(Continued on page 28)

CAREER OPPORTUNITIES UNLIMITED



The variety of careers in health offers rich scope for the inquiring mind, as well as the excitement and gratification of helping advance

man's progress in dealing with himself and his environment.

In spite of the growing number of persons in the health professions, the supply has not kept pace with the demand for services. The opportunities are truly unlimited! Whatever your choice—medicine, dentistry, nursing, public health, pharmacy, medical technology, medical assistance, biophysics, biochemistry, bacteriology, to mention only a few—your prospects will be what you make them, determined by your interest and capacity, your training, your decisions, your work.

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Is pharmacy the career for you?

By Howard E. Mossberg
Dean of the School of Pharmacy
University of Kansas

The profession of pharmacy is a health science. It is concerned with the design, synthesis or isolation, evaluation and preparation of medicinal agents with final distribution to the patient. Thus the pharmacist's responsibility to the health of the public includes all phases of development and control of agents used in the prevention and treatment of disease in man, animals, and plants.

Training in pharmacy qualifies students for the responsibility necessary as a member of the health team. Students are offered an education in the natural sciences, as well as in the arts, humanities, and social sciences. In this manner the student is provided with a well rounded education befitting that of a professional man as well as becoming a trained pharmacist, one who has mastered the basic biological and physical sciences.

The only school of pharmacy in Kansas is a part of the University of Kansas. It was established in 1885, making it the third state university school of pharmacy in the United States.

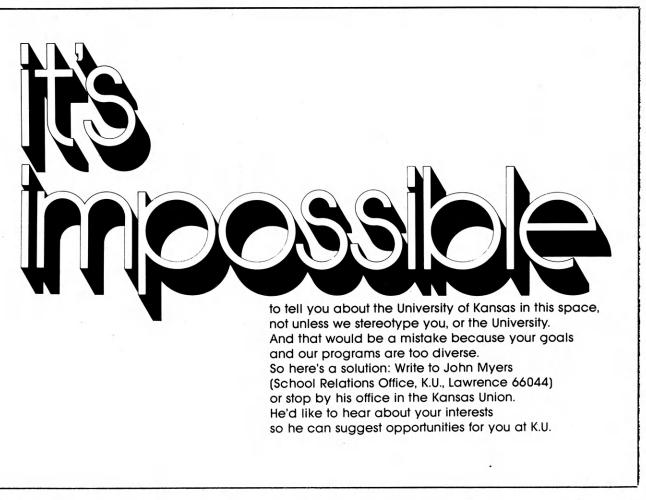
The professional curriculum of the school of pharmacy is a three-year program leading to a bachelor of science in pharmacy. Application to the school is normally made when a student has completed 60 semester credit hours in liberal arts and science or approximately two years of basic education. In special cases a student may apply for admission after one year (30 hours) of basic education in arts and science; the remaining four years are then completed as a student in the school of pharmacy.

Students applying for admission must have a C or a 2.00 G.P.A. in their arts and science coursework. The requirements of

the program for a degree in pharmacy are such that a student should plan his program of study carefully. Recommended sequences for the first two years are available by writing to the School of Pharmacy, University of Kansas, Lawrence, Kansas. In general the emphasis is placed on the physical and biological sciences.

The opportunities existing after graduation are numerous. Many highly trained people are required by the pharmaceutical industry either in manufacturing or in research, sales, promotional, or other capacities. Governmental agencies require pharmacists to supervise and enforcation and drug laws. Pharmacists are also needed by the armed services, public health service and peace corps. Hospitals require pharmacists to look

(Continued on page 35)



(Continued from page 23)

Ag . . . rooted in the sciences

Agriculture is a skill and a profession deeply rooted in sciences — biological, physical, political, and social. More than 39,000 U. S. scientists (more than 15 per cent of all U. S. scientists) work in life sciences and agriculture in this day of sophisticated research, of nucleonics, of automation, of atomic power, of electronic computers, of remote sensing, and of aerospace travel. Agricultural science is, in fact, an essential force in the dynamic advances of the 20th century.

Thanks to agricultural research, we have basic foods, plus vitamins, trace elements, such antibiotics as penicillin and streptomycin, dicoumarol for heart patients, and capsule foods for astronauts.

Agricultural research is used to develop recreational areas, to manage lawns and turf (including golf greens), in ornamental landscaping, and to control insects and plant diseases.

Medical science has teamed with agricultural sciences in studies of cancer, goiter, radiation from atomic fallout, tooth decay, arthritis, undulant fever, tuberculosis, coronary disease, scurvy, anemia, and muscular dystrophy. Agriculture (united with science, technology, and business) undergirds America's well being. A bright future seems assured

A lifetime career in agriculture could open new, challenging opportunities to you — in business, industry, research and development, education, communications, pollution abatement, resource development, economic development in foreign countries, conservation, recreation, or urban agriculture.

Mechanization, improved crops and livestock, crops that resist insects and diseases, pest attractants, bacteria that destroy harmful residues, and other advances in scientific agriculture are increasing opportunities for those with degrees in agriculture.

Opportunities for youth with degrees in agriculture today are expanding rapidly in the nonfarming segment — in areas such as manufacturing, processing, distribution, research, marketing, pollution control, conser-

(Continued on page 27)

THE FARMER SPEAKS FOR HIMSELF



Farm Bureau is the largest voluntary general farm organization in the world. We have had an increase in membership every year, except two, since 1938. This year we exceeded two million member families in Farm Bureau. We had the largest increase in membership this year of any year since 1947. With an average size of 3½ persons per family we are now serving over seven million people. Four of five farmers and ranchers who belong to a general farm organization belong to Farm Bureau.

This is a great organization because its people have a great spirit and are determined to stand for the things they believe to be right in America and to preserve the things that have made America the grand country that it is.

Within this organization we encompass the bulk of American agriculture that produces food and fiber for the market. These fine people have an appreciation for enterprise, factual knowledge, resources and the things that have motivated America to be the number one nation in the world. —

William J. Kuhfuss, President, American Farm Bureau Federation, in his Annual Meeting Address, December 6, 1971.

Kansas Farm Bureau

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Law school and the legal profession:

The hot one!

By Dean Raymond L. Spring Washburn University School of Law

As recently as four years ago it was said that 9 out of 10 qualified applicants were able to gain admission to some law school in this country. Unfortunately for those who now seek to enter the study of law, this is no longer true. Law school applicants have doubled each of the past two years, and few schools now are able to admit as many as onehalf of those who apply. For the two law schools in Kansas, it would appear that only one of every five to seven applicants will be admitted in 1972. (Editor's note: Kansas' two law schools are at Washburn University, Topeka, and at the University of Kansas, Lawrence.)

It is quite clear, then, that the prospective law student must concentrate on making his or her college career as successful as possible. While most law schools are interested in learning all possible information about an applicant in evaluating credentials for admission, the great number of applications to be processed dictates that college grades and scores on the Law School Admission Test receive primary consideration. The student who maintains a 3.0 under-graduate average, and scores 550 or better on the Law School Admission Test currently has an excellent chance of being admitted to a law school, although minimum requirements vary considerably among schools. As either of these measures drop below this standard, however, prospects for admission drop off rapidly.

The best undergraduate curriculum for law school preparation is one which trains the student to think analytically and write well. That type of training may be received in a number of departments, and is as often a function of the particular instructor as it is the name of the course. Some work in the area of history, political science, economics, business administration and accounting should be taken, and a solid foundation in English is essential. Courses

such as art, music, home economics and physical education, while certainly valuable for their purposes, normally do not measure very well the kinds of skills and aptitudes required for law.

The Law School Admission Test is basically a test of aptitude for law study, given nationally by Educational Testing Service. It should normally be taken about one year prior to entrance into law school. Information regarding this test is normally available from pre-law advisors

Once a student gains admission to law school, he or she embarks upon a three year course of study designed to prepare the student for the practice of law. The course is a difficult one, but the student who is admitted normally has the ability to succeed, given sufficient desire and motivation. The first two years normally cover the various substantive areas of law common to all areas of practice, with the third year used for concentration in specialized areas. Increasingly, law schools provide clinical training in the third year, in which the student works with real clients on real cases, under supervision of a faculty member or practicing attorney.

Following graduation from law school and admission to the bar - accomplished by an independent comprehensive examination administered by each state — a number of opportunities are open. Traditionally, of course, a high percentage of law school graduates enters the private practice of law with a firm of lawyers. Larger firms in metropolitan areas have been expanding rapidly in recent years, and the need for young lawyers willing to enter practice in smaller communities is rapidly becoming acute. State and federal government agencies hire large numbers of young attorneys annually, and salaries now paid in such positions are becoming increasingly attractive, both initially and in the long run. A law school graduate currently may start at between \$10,000 and \$12,500 with the federal government;

private law practice usually carries a slightly lower beginning salary, except for the very top law school graduates, but the long range prospect for earnings is much higher. Corporations, which hire law school graduates both for positions as staff lawyers and as junior executives, are normally competitive with government positions at the entry level.

The law offers a fascinating and rewarding career, not only financially but in serving individual and societal needs. It's a long, hard pull — to get into law school, to get through law school, and to succeed in practice. But it's well worth it.

Agriculture -

(Continued from page 26)

vation, resource development, government service, and foreign aid. Therefore, agriculture needs young men and women with city backgrounds, as well as youth with rural backgrounds. More women graduates are being employed each year in biology, in research and teaching, as technicians, in floriculture and land-scape architecture, in agricultural communications, and in many other ag-related professions.

Beginning salaries for those with the bachelor's degree averaged \$8400 in 1971. Those with five years experience were averaging over \$10,000. Many with 20 years experience were earning over \$20,000; a few exceeded \$50,000.

Men and women with recent degrees in agriculture can expect to "peak" professionally early in the 21st century. More food will be needed with less land. More people will be seeking a quality life. Therefore, efforts toward maintaining a quality environment will have increased. Greater increases in positions for ag technologists abroad are anticipated. A bright future seems assured.

Where are there more rewarding careers? Where can an individual make a greater contribution to the health, welfare, and well being of his fellow man? (Continued from page 24)

STERLING COLLEGE, Sterling Theatre arts: The curriculum in theatre arts provides 12 new courses leading to a major. A total of 200 students will participate in this department this school year, including the extracurricular play productions.

Plays scheduled include Fiddler on the Roof, Antigone, and the Merchant of Venice. A Children's Theatre production will tour local elementary schools, and a religious theatre production will tour churches on Sunday evenings this spring.

Computer science: Special aplication courses will develop skills in this new field for students majoring in business or in science. This area provides a great deal of opportunity for innovation; for instance, elementary and secondary level education are just beginning to feel the effects of research now utilizing the computer as a basic tool in instruction.

BETHANY COLLEGE, Lindsborg

English: Opportunities are increasing for field experience in literature and drama, for indepth experiences with literature, for study of new critical approaches to literature, and for study of the media of popular culture, especially film.

Also new is the combination of English, American, and European literature in the basic literature courses and of English and American literature in period courses.

Music: About 12 per cent of the students in this liberal arts college major in music. The college is equipped to teach all areas of music performance. An attempt is made through the faculty and the music program to bring each student to the highest realization of his or her individual potential.

Not new, but old and notable is the Bethany College Oratorio Society which annually since 1882 has performed Handal's "Messiah" oratorio. It is the oldest continuous oratorio society in the United States. Many students take part.

COLLEGE OF EMPORIA, Emporia

Social welfare: The College of Emporia is one of two colleges in Kansas to offer a social welfare program at the undergraduate level. This program is complete with a field work practicum that gives the student an opportunity to actually see and work with social welfare problems in the community. Opportunities are offered too for a student to gain practical experience working and teaching in urban ghetto areas.

Southwest American Indian cultures: During this two-week course students camp out either on or near Indian reservations in Colorado, New Mexico, and Oklahoma, where they have the opportunity of soaking up Indian culture and history firsthand. Three hours of upper-level credit are granted for this course, which is offered in January and again in late May or early June.

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What's new? -

(Continued from page 10) BETHEL COLLEGE.

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Urban studies: Beginning with the spring term of 1972, an Urban Studies semester will be offered which will use Wichita as a laboratory for the study of urban needs and the structure of urban institutions.

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Professional recreation: This program includes courses in recreation leadership, aquatic management and programming, therapeutic recreation, outdoor education, administration of recreation and parks, and community

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recreation. In addition, internships are available in a variety of community recreation programs, including those with the Topeka Recreation Commission, the Kansas Neurological Insti-tute, The Menninger Founda-tion, and the Boys' Industrial School.

Personnel in recreation are in demand as increased leisure time for the average American, increased per capita incomes, longer life spans and earlier retirements create a need for additional recreation facilities.

Corrections: A grant was awarded to the university to create this new curriculum in an attempt to upgrade education and training in the fields of law enforcement, corrections and rehabilitation. This coeducational program is designed for persons interested in classification and counseling, diagnosis and treatment, inmate custody, probation and parole.

The inter-disciplinary major is administered through the sociology department. To enhance oncampus instruction and text-books, fieldwork seminars and student internships will include experience in at least one of the major state or federal corrections institutions in Kansas.

Job opportunities are growing rapidly.

Mental health: Included in the 60 credit hours necessary for completion of this two-year certificate program for mental health workers are courses in personal health and community

(Continued on page 30)

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(Continued from page 29)

hygiene, the psychology of adjustment, social problems and human development, in addition to elective courses and internship credits. For students who wish to pursue a bachelor's degree after two years in the program, full credit for all course-work is given and applies to-ward the degree.

Communication arts: If a communication gap has been bothering you, there is now something that you can do about it; enroll in communication arts. The degree will not automatically close the gap, but it will help you to better understand the problem and to become a part of the solution. In this new department, you may select the area of emphasis which interests you most: radio-TV, journalism, or speech. Ten hours of core courses prepare you for these areas and then you begin to specialize by choosing from the ten courses in radio-TV, ten in journalism, or nine in speech.

SAINT MARY COLLEGE, Leavenworth

Urban careers in teaching and social work: To provide students with practical experience in dealing with these fields, Saint Mary College offers two programs in which students may work in the Kansas City innercity for a semester. Both programs are sponsored by the Kansas City Regional Council for Higher Education. They are:

CUTE — Cooperative Urban Teacher Education program. Education majors who choose to participate will teach in innercity schools and also observe procedures in the courts, jails, welfare offices, family counseling centers, and other agencies with which the poor deal.

COSWAP — Cooperative So-

SAINT MARY COLLEGE

Xavier, Kansas

See listing page 20

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CHRISTY'S AUTO SALVAGE Route 1

cial Welfare Action Program. Students who plan to go into social work have an opportunity to work in ghetto neighborhoods alongside professional social workers either for a semester or during the January term.

Home economics: The profession with 1,000 job titles! This is home economics. Saint Mary College has recently printed a brochure describing the many and varied careers open to young women who major in this field in college.

BENEDICTINE COLLEGE, Atchison

New College: This college is new since July 1971. Located in the scenic bluffs overlooking the Missouri River and valley, it is a merger of St. Benedict's and Mount St. Scholastica, two colleges whose traditions extend into history more than 100 years, when Kansas was only a territory and not yet a state. Benedictine College is coeducational, residential, and offers 23 fields of study leading to a bachelor's degree.

Student petition: Any incoming student may petition for approval of an academic program not accommodated by any existing program. The student, in consultation with the dean, prepares a plan of study and a formal statement in regard to the purpose of the proposed special program. For example, medical technology this year part of a formal program, was suggested by a student, and has been approved by the Council of Medical Education and Hospitals of the American Medical Association.

KANSAS STATE TEACHERS COLLEGE, Emporia

Teacher Corps: The Kansas Teacher Corps Project, a twoyear federally funded project,

BENEDICTINE COLLEGE

Atchison, Kansas 66002

See listing page 20

These firms proudly recommend BENEDICTINE COLLEGE MULLINS BRO. PRO. HDWE. 819 Main

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not only helps colleges improve methods of teacher training, but also helps teachers improve their teaching methodology in order to aid students from economically deprived areas.

Begun last summer, the Teacher Corps now has 36 student interns working in central Kansas school districts, with six interns located in each district under the direction of a team leader. The interns will remain in the district two years while at the same time they will continue working toward an education degree at KSTC.

In their assigned communities the interns assist school teachers with class work and also become involved in community activities, such as adult education classes.

FORT HAYS KANSAS STATE COLLEGE, Hays

General education: This new program is broadly based and designed so that students will learn how to learn and will be prepared to continue their educations throughout their lives. To enable the student to become somewhat knowledgeable in areas outside his field he takes courses in communications, natural sciences and mathematics, humanities, social and behavioral sciences, and physical education. In addition he specializes in his chosen field. Note to horse lovers: You can bring your horse to campus and pasture him on the college farm.

(Continued on page 34)

FHKSC

means Fort Hays Kansas State College and it stands for education. If you are seeking a quality education and like quiet, unpolluted atmosphere, then Fort Hays State College is for you. Write the Office of Information Services, Hays, Kansas, 67601, for more information.

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Financial aid for post secondary education

Freeman H. Beets Director, Higher Education Region VII Department of Health, Education, and Welfare

The United States Office of Education provides funds to colleges and universities, vocational and technical educational institutions, and other post-high school institutions so that grants, loans, and work opportunities may be made available to students in need of financial assistance to continue their education.

The Educational Opportunity Grants Program is for students of exceptional financial need who without this grant would be unable to continue their education. Grants of up to \$1,000 a year are available for four years of undergraduate study. The institution provides additional financial aid at least equal to the grant amount but the total aid cannot exceed the student's financial needs as determined by

the institution.

The National Defense Student Loan Program makes it possible for students to borrow up to \$1,000 a year for undergraduate study and up to \$2,500 a year for graduate or professional study. Repayment begins nine months after a student ceases at least half-time study and the borrower may have as long as ten years to repay the loan. The interest charges of three per cent do not begin until the start of the repayment period and no repayment is required and no interest is charged for any period up to three years during which the borrower is serving in the armed forces, Peace Corp, or Vista. The program also provides for partial or total loan cancellation for students who enter the field of teaching.

The College Work-Study Program provides work opportunity to assist students to earn part of their college expenses. In general, the salary paid is at least equal to the current minimum wage of \$1.60 per hour although in some instances it is higher. A student may work an average of 15 hours weekly while classes are in session and 40 hours per week during the summer or other vacation periods.

In all of these three programs the student financial aid officer at the school you plan to attend makes a financial need assessment and selects the students who will receive the grants, loans, or work opportunities and determines in what amounts these will be awarded.

The Office of Education also sponsors a loan program for students who attend colleges, universities, or business, trade, technical, and vocational schools. Under the Federal Insured Student Loan Program any United States citizen, national, or person in the United States for other than a temporary purpose who is enrolled or is accepted for enrollment on at least a halftime basis at an eligible school may apply. Most public and private institutions of higher education and many vocational schools are eligible. The individual school which the student is interested in will have specific information on its eligibility. Applications for these loans should be made to banks, savings and loan associations, credit unions, pension funds, insurance companies and eligible schools which have been approv-

ed as lending institutions. Loans are made at the discretion of the lender and may be for as much \$1.500 per academic year. provided the amount does not exceed educational costs less other aid received. The total outstanding principal balance may not exceed \$7,500 at any time.

Loans are made at an annual percentage rate of interest not to exceed seven per cent and if the student's adjusted family income is less than \$15,000 the Federal Government will pay the total interest while he is in school and during authorized periods of deferment for military service, Peace Corp, or Vista. There is a minimum monthly repayment requirement of \$30 and repayment begins between nine and twelve months after the student completes his course of study or leaves school. Further information about this program may also be obtained from the school student financial aid officer.

Note: At the time this material was prepared for publication, legislation was pending which could possibly alter some of the above information. Students are advised to check with the institutional student financial aid officer or your high school counselor for the latest information.

Editor's note: Family income and the family's and student's savings are the principal sources of money for post high school education.

But with costs rising, many students need more than these family and personal resources. In addition to the federal programs listed above, many scholarships are available; to learn about these, ask your high school counselor, or write to the colleges you may wish to attend. Summer jobs and part-time work during the school term are other sources of money for education.

In some particular cases, social security, veterans' benefits, and vocational rehabilitation may provide funds. To find out if you are eligible for any of these benefits, contact the regional or state offices of these programs.



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Find your role

By Hample Fairleigh **Public Relations Director Employment Security Division** Kansas Department of Labor

When the curtain goes up and the ingenue, or her counterpart the young male lead, makes that all-important step onstage into the world-of-work, the young Thespian has support never possible had the entrance been made a couple of decades or more ago.

Not long ago, the decision made after graduation from high school was either toward the job that was handiest, or toward col-

lege or business college.

Today, long before "Pomp and Circumstance" heralds the march to receive a diploma, the graduate has an understanding and recognition of the famous old world of work.

Summer youth employment programs instigated by local employment service offices cooperating in many instances with various civic and service clubs have provided experience and discipline needed in today's labor market.

Employment service vocational counseling teamed with excellent support from school counselors has enabled the young man and woman to become knowledgeable in many occupational fields heretofore a mystery.

(Continued on page 35)

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"A Private Career College for Young Women"

Beauty field looks good

Beauty culture is a service field — serving and meeting people and trying to please. If you have a short fuse or hate to take orders — better think of another career.

To be able to succeed in this field you will need good health, as the work is hard. Personality is important — can you get along with people? Artistic talent is helpful.

It takes six to nine months' training at vocational schools or private beauty culture schools that meet state licensing requirements.

Earnings are hard to estimate, as they hinge on the type of salon, geographical location, and amount of business. Hairdressers in most parts of the country get 50-55 per cent of the money they take in — plus tips.

Hairstyling is not the only opening as there are over 40 beauty careers available in and outside the salon. You may become a hairstylist, manicurist or a hair coloring specialist—a beauty salon manager and/or owner, become a beauty school

instructor or supervisor and/or owner.

If you want to specialize outside the salon you may choose to work as demonstrator, lecturer, cosmetic manufacturer's representative, a hospital beautician, a makeup artist in motion picture studios or television studios. You might also choose to be a beautician on a cruise ship or a plush resort.

One thing is certain; regardless of how many labor-saving machines are brought into salons, there will continue to be a demand for the skilled

professional, so the outlook is bright.

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He looks as if he likes his work! The name of the picture is "Postman Putting Mail in Box," and it was taken by Diane Erwin, age 15, who is a member of Hornets 4-H Club of Wyandotte County. The shot was a purple ribbon winner at both Kansas State and Mid America fairs.

Have you thought of a career in the United States Postal Service? The postal service is looking for young persons who are interested in a

career as a postal clerk or carrier.

If you are interested, first go to your post office and talk with the postmaster. He will notify you when the postal examination will be given. It is possible to study for the test, which is similar to a civil service examination. A source for material to study is your local library.

When the test is over, persons with highest scores are given priority when jobs become available. Persons are not discriminated against on the

basis of sex or race.

The minimum age is 18; starting pay is \$3.62 an hour. Persons may start as substitutes.

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What's new? -

(Continued from page 30)

SAINT MARY OF THE

PLAINS COLLEGE, Dodge City Music: An entirely new music curriculum leading to the bachelor degree involves three main areas: musicianship, solo performance, and ensemble per-formance. These veins of study continue throughout the student's career in college. This arrangement of courses develops

and promotes comprehensive musicianship in all branches of the art and technique through creation, analysis, listening, and performance.

A musical education at SMPC emphasizes the synthesis of the various components of music rather than the segmentation of the traditional approach to music study. The student is constantly working with music rather than with textbooks and treatises about music.

Business Administration: In this flexible new program each student takes core courses in the fields of business and economics. After this foundation he chooses an area of concentration which best suits his goals and abilities. In this area of interest, which may be accounting, economics, or management, he completes 14 semester hours of courses. Minor fields are also offered in the same subject areas.

(Continued on page 36)

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Who is a librarian?

By Marjorie G. Williams Administrative Assistant Department of Librarianship Kansas State Teachers College Emporia, Kansas

He or she is the storyteller in the children's library; the high school librarian who helps with materials for a class project, keeps media equipment ready for use, adds more and more material to the collection to keep it up to date; the bookmobile librarian who takes books and other materials to areas too far from the main library for many people; the librarian in the public library who keeps information for recreation, continuing education, group discussion meetings and a pleasant place to browse and read; the college librarian with materials for study and research; the librarian, usually called a systems analyst, who plans programs to correlate information about materials from more than one location, most of which is programmed into a computer for use in several locations, and many more.

There are those who buy and process all of the materials in a library, the people who answer myriad questions in almost any area, the media specialists who know which equipment and what film, filmstrip, record, tape or other learning hardware will best suit your needs.

There are also many without professional degrees who work as assistants in many different positions. They are the people who help you.

How do I learn to be one?

You earn a bachelor's degree, four years of college, being sure to include all areas of liberal arts and special competence in one area. Since there are many kinds of materials in foreign languages in all of our collections, even elementary schools, it is important to include a year of study in a modern foreign language. For many programs this is part of the admission requirements. Be sure to keep your academic grades "B" or above, for acceptance to any graduate study depends on good grades.

As to salary scales, in 1971, the average salary for beginning librarians with master's degrees was just over \$8,000, with variations according to experiences and special requirements. After you receive your bachelor's degree (or during the last semester of that program) you make application to the graduate library program of your choice for admission to the program. You will want your degree, which is a master's degree and takes a year to earn, to be from an accredited program. The American Li brary Association is the recognized authority which sets and enforces special requirements for approving accreditation for programs of study.

If you don't know where the accredited study programs are, write to the American Library Association, 50 E. Huron Street. Chicago, Illinois 60611, or to the Department of Librarianship, Kansas State Teachers College, Emporia, Kansas 66801. which administers one of the accredited programs, and who will be glad to answer any question.

Find your role -

(Continued from page 32)

Junior colleges have grown to full stature supplying a fine replacement for those finding a four-year college impractical. Almost every Kansas community boasts of such an institution, all excellent in every way.

Making their appearance strategically statewide have been the area vocational-technical schools. Here the trades are taught to students of all ages by tried and true professionals. Each voc-tech school has its own specialty, ranging from heavy-equipment operation and office techniques to farm management.

Today, the young Kansan finds the training and/or schooling necessary to supplement high school at his home doorstep.

Agribusiness and health related occupations — two of the most booming, interesting and inviting areas for the young boy or girl — are prominent in the curriculum of all schools and training centers.

The electronic media also are destined to play a prominent part in the future of many young people. Electronic data processing with its many facets of programming, systems analysis, key-punching, and on and on, offer excellent careers for those technically inclined.

One help in preparing for the future is the supportive services offered in conjunction with many training facilities. Additional math, English, or basic education requirements are offered to those needing them prior to entry into actual training. This holds true in many of the opportunities through the Manpower Development and Training programs.

The old jobs are still around. Many of them have been dressed-up and polished beyond recognition, but they are still important to our economy and way of life. A secretary is still all-important to the boss, but her equipment is now fancy push-buttons and does everything for her, but spell. This, she still must do. Cars and machinery need repair, there is merchandise to be sold, people and the products they create or grow are constantly on the move.

Alongside of the good oldies are many new occupational opportunities brought about by tremendous advances in the technology of agribusiness and the sophistication of the business world.

Choice of a career today seems complex indeed, when you think of all the possibilities open to our ingenue about to go onstage for the first act of the play entitled "The Rest of Your Life."

Yet information to help her choose her role is everywhere about, in the school library counselor's library, employment service offices, yes, and on radio and television.

Performance can be anywhere in the state from Elkhart to Atchison, from Pittsburg across to St. Francis. The opportunities are there, available in some way. for everyone.

Kansas has the young people and the opportunities. Tomorrow should be a great day.

Pharmacy —

(Continued from page 25)

after the dispensing of prescriptions to their patients. Many pharmacists with a background in journalism find opportunities on staffs responsible for the publication of scientific journals. Opportunities exist with drug wholesalers for those with a knowledge of pharmacy and business. The retail pharmacist is the most familiar face in the picture of pharmacy and many enter retail pharmacy initially as an employee and later become owners themselves. Opportunities are therefore limited only by the energy and ambition of those who accept the many challenges of pharmacy.

After graduation, some continue their education by entering graduate school and obtaining an advanced degree in pharmacy. The graduate programs available at the University of Kansas are in the fields of pharmaceutics, that area of pharmacy concerned with the quantitative and theoretical principles of science as they apply to the practice of pharmacy; pharmacology and toxicology, that area of biologi-cal science which deals with the action of chemical substances on living systems; medicinal chemistry, that area concerned with the design and synthesis of medicinal agents to aid in the elucidation of the mechanism of drug action; hospital pharmacy, that area concerned with institutional practice of pharmacy.

Admission to the school can be granted at any level of the program. The minimal requirements to be fulfilled for the degree are 152 semester credits with a C average. According to a ruling adopted by the American Association of Colleges of Pharmacy, students must spend six semesters in residence in an approved school of pharmacy for a degree. The minimum number of credits for residence in the school is 12

hours per semester.

To enter the school, students should apply by June 15 to the Director of Admissions, 126 Strong Hall, the University of Kansas, Lawrence, Kansas 66044.

The school is a member of the American Association of Colleges of Pharmacy. Member colleges are required to maintain requirements for entrance and graduation. This assures graduates recognition of their college training wherever they may decide to practice. The school is accredited by the American Council on Pharmaceutical Education, the official accrediting body for American Pharmacy.

What's new? -

(Continued from page 34)

SOUTHWESTERN COLLEGE, Winfield

Summer session: Courses in ecology, Russian history, tests and measurements, and quantitative techniques are planned for the 1972 summer session.

OTTAWA UNIVERSITY. Ottawa

Individual educational gram: Ottawa University does not have majors in the traditional sense because each student, with the help of his primary advisory committee, designs his own educational program. With his committee, chosen from among faculty, fellow students, and members of the community, the student develops an individual program to accomplish his objectives.

Core seminars: Groups for core seminars are small, about 15 freshman and sophomores. By limiting the number of courses to two each session, one is assured of experiencing the excitement and intensity of each subject. There is opportunity for interaction and full participation in the discussion of relevant questions dealing with the problems of our time. Objectives include the ability to write well, to construct logical arguments, to establish the validity of conflicting ideas, and to think criti-

Cross-cultural experience: All students at Ottawa University may become involved in a crosscultural experience, usually during the third year. The experience is planned by the student with his primary advisory com-

OTTAWA UNIVERSITY

Ottawa, Kansas

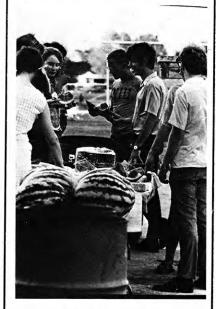
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mittee and can take him into a foreign land. Some students stay in the United States working in such places as city ghettos or Indian reservations.



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Big tractors! Machines! Is this your bag?

By W. H. Johnson and C. K. Spillman Respectively, Head and Assistant Professor, Department of Agricultural Engineering, Kansas State University, Manhattan

Agricultural engineering accepts responsibility for engineering advancements in agriculture. Many career opportunities exist for those who have a degree in

agricultural engineering.

There are many engineering challenges in agriculture. For example, tractors are large! How much larger should they get? What is the next step in their major development? Should they become driverless—controlled by a computer? How can we use large tractors to better apply power to the soil, reduce compaction, and maintain soil tilth? How can we assure safe operation to eliminate accidents? The application of power has been important in increasing food production per farm worker; however, agricultural engineers must continue to search for improved means.

Water is highly important for maximum agricultural production in much of Kansas. Have you thought about the engineering aspects of expanding water supply and the related social implications? Should Kansas import water or try to modify weather and rainfall patterns? How can we better harvest the rainfall we already receive and use it most effectively? How can we design and use a tiller which reduces evaporative water loss and allows us to capture a maximum amount of rainfall? What can be done to increase the efficiency of applying water to the root zone of crops? The agricultural engineer is qualified to contribute to solutions of these kinds of prob-

We hear much today about preserving a quality environment. The agricultural engineer accepts this challenge. He designs soil structures to control the movement of water across soil so silt will not move into streams. He is devising means by which waste products from agricultural production are prevented from polluting our surface and underground water supplies. He seeks safe, economical, and efficient methods for utilizing animal wastes in crop production systems so that we can put the material to work for us rather than against us. Where structures, machines, or equipment are needed for these production or processing systems agricultural engineering has a responsibility to contribute.

Students may want to consider agricultural engineering for two important reasons. First, youth want to benefit societyto serve man. What is more basic than contributing to one of the more essential needs of man—food? The challenge to produce adequate food is worldwide! Second, the young person who recognizes that food producphysical sciences, and engineering will find that agricultural engineering integrates these two concepts well. Kansas State University offers the only curriculum in agricultural engineering in the

tion is basic and who has an in-

terest in mechanical things,

state of Kansas. It is a four-year curriculum in the College of Engineering and is recognized na-

The number of agricultural engineers nation-wide is small compared to the demand. We invite you to sincerely consider agricultural engineering.

What's new?

UNIVERSITY OF KANSAS. Lawrence

Intensive French and Intensive Spanish: These courses are designed to provide, at the end of one semester's study, proficiency for students with no previous background in the language. The student who completes either program can not only read and write a language but can converse in it, as well.

Both programs assume that the student will devote his full enrollment to them for the semester. About a month into the semester, the Spanish program cuts back somewhat on the intensive study of the language and adds two academic courses, both taught in Spanish.

Integrated Humanities Program: This program integrates a miscellany of separate subjects into one coherent course of study. Students take one foursemester course which satisfies the freshman-sophomore English, speech, and western civilization requirements and the total humanities graduation requirement.

Because the program focuses upon principles, especially as they have been discovered by the greatest minds in the world, it becomes possible for a student to formulate in the course of his study a philosophy of life upon which meaningful future study can be based.

Education is worth the cost

According to the Labor Department the super inflated cost of a college education is still a good investment. It is becoming more and more difficult for anyone to compete in this country without a better education. Lifetime earnings are higher and unemployment is lower for the college graduate compared with those who never went beyond high school, the federal agency says.

It said the cost of one year's attendance at a public college had risen by 46 per cent in the last decade to \$1,198 in 1970. The increase for private colleges was even greater—up 66 per cent to an average \$2,520 for tuition, room and board last year.

Citing Census Bureau statistics, however, an article in the Labor Department's occupational outlook quarterly said the payoff usually exceeds the payout.

Average lifetime earnings in 1968 were \$607,921 for male college graduates, only \$371,094 for men with high school diplomas, and \$213,505 for men with eight years of schooling or less. No figures were given for women.

The Labor Department publication, however, does not recommend that everyone go to college. Each prospective freshman was advised to decide whether to enroll on the basis of his "interests, abilities and career plans" compared to the cost of college.

Jobs grow in health fields

Government projections show job growth will continue to be faster in the service-producing industries (education, health care, trade, repair, and maintenance, etc.) than in the goodsproducing industries.

Let's take a look at the health field. Health is a rapidly changing field with new job areas being created constantly. The passage of a much discussed national health insurance program (if and when this happens) could really make this field take off rapidly.

There are between 200 and 300 health occupations now in existance and a popular new one is the physician's assistant. He is not normally a specialist, but rather joins physicians and nurses in concern for total care of the patient. Qualifications vary considerably. Some programs offer general training while others train PA's for specialists (pediatrics, orthopedics, urology, etc.). Some are open to high school grads, most require some college or training and/or experience in the medical field. Length of training ranges from one year (for those with medical backgrounds) to five years. Programs are found in medical schools, hospitals, two and fouryear colleges, and universities.

As of early 1971, about six states OK'd physicians' delegating tasks to PA's and Kansas is one of them.

Here are some of the allied health career fields listed in a new National Health Career leaflet:

Assistant and technical work:

Dental assistant, dental hygenist, dental laboratory technician, electrocardiograph technician, electroencephalograph technician, laboratory assistant, medical assistant, radiologic technologist.

Fine arts and photography: graphic arts specialist, medical illustrator, medical photographer, dance therapist, music therapist.

Administration and business:

Comprehensive health analyst and planner, hospital administrator, hospital accountant. hospital purchasing agent, hospital unit manager, health administrator, medical record librarian, medical group manager.

Education and communications: Health educator, peripathologist, health information specialist, hospital librarian, hospital public relations director, medical librarian, science writer, technical writer.

What's new?

MANHATTAN CHRISTIAN COLLEGE, Manhattan

Combination program: This plan combines courses at Manhattan Christian College and Kansas State University to offer a unique program for the young person who desires to train for a professional career in one of several areas as well as for church leadership and personal Christian growth.

The student earns one degree in four years. He receives a degree in "Christian Service" from MCC. This means that he has taken a full major in Biblical, theological, and practical Christian studies. This also means that he has completed a bona fide major at Kansas State University in a field such as journalism, art, computer science, history, pre-professional studies (law, medicine, dentistry), sociology, home economics, political

science, modern language, or one of at least ten other areas.

WICHITA STATE UNIVERSITY, Wichita

Health related professions: Programs currently conducted by the College of Health Related Professions, established in April 1970, are baccalaureate nursing, medical technology, cytotechnology, dental hygiene, inhalation therapy, and physical therapy. The clinical phase of physical therapy will not be available until 1973.

MARYMOUNT COLLEGE OF KANSAS, Salina

Medical record administration: medical technology: Degree programs in these two fields will begin in the fall of 1972. In medical record administration the student follows the three-year liberal arts curriculum at Marymount, spends the fourth year at the University of Kansas Medical Center, and graduates from Marymount. The medical technology student follows the three-year liberal arts program at Marymount, spends a fourth year at one of several approved affiliated hospitals, and graduates from Marymount.

New NAIA member: This year for the first time Marymount is competing in National Association of Intercollegiate Athletics in basketball, cross country, track, tennis, and golf. Athletic

director is Larry Muff.



JOIN THE SPARTANS!
MARYMOUNT COLLEGE OF KANSAS
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See listing page 20

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- ... about our human resources

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Advertisers' Index System will help schools, persons plan for future

By Dr. James Harris Director, Manpower Project and Dr. Robert Scott Associate Professor Adult and Occupational Education Kansas State University

The availability of training will be a very important factor in your choice of a career. Often, young people must chose their future occupations in light of the vocational training opportunities found locally. Since there could never be enough resources available to offer all types of training in every school district, educational administrators must offer those training programs which would benefit the greatest number of people to the greatest extent.

What should be offered?

Have you ever wondered how educational administrators decide how many and what types of vocational training program will be offered at a particular school? They usually consider (1) the manpower needs of the community, the state, and the nation, (2) the supply of manpower available to meet these needs, (3) the number of students who might be served by various types of training, (4) the vocational interests of potential students and (5) program costs and potential benefits to both the student and to society as a whole.

As you might expect, gathering and analyzing information on manpower needs, manpower supply, potential student popula-tions, student vocational inter-ests, and costs and benefits of possible training programs takes a great deal of time and effort. Presently, each local administratrator must gather and analyze most of the information he and the school board will use in the decision making process.

The Division of Vocational and Technical Education in the Kansas State Department of Education has asked Kansas State University to design and develop a management information sys-

tem for vocational training planners. It is hoped that the information produced by this system will improve the quality of the information on which program planning is based and that the time required to decide which vocational training programs should be offered will be reduced significantly.

Match needs and training

Initially, the major system development efforts will be concentrated in the areas of (1) projecting manpower needs, (2) projecting manpower supply, (3) determining student interests. (4) determining what potential costs and benefits of various types of training will be and (5) determining what resources will be available for vocational train-

In addition, a placement service will be developed which will provide names and addresses of potential employers. This means that when you complete a vocational training program, your counselor can provide you with a list of firms which employ workers with the skills you have ac-

quired.

The plan will help society.

Generally speaking, the system will help vocational program administrators plan programs that will give you skills for a je' that (1) exists, (2) is financially rewarding and (3) is of interest to you. In addition, better information should help the local administrator spend your parents' tax monies for training programs where both you and society as a whole will benefit most.

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WE SALUTE ELECTRIC WINNERS



The Investor-owned Electric Companies of Kansas proudly salute the Electric Project winners listed here. These worthy 4-H'ers received Westinghouse Medals for their fine work. If you are not enrolled, join the many 4-H'ers in this project to learn more about electricity and the proper care and use of electrical equipment. Contact your club leader for more information.

State Winner: Billy McDaniel, Saline County, received a trip to the National 4-H Congress in Chicago, where he was named as a national winner in the electric project.

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* Blue Award Group. Received an educational trip to the Kansas 4-H Congress the list of county winners will be continued in March.



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