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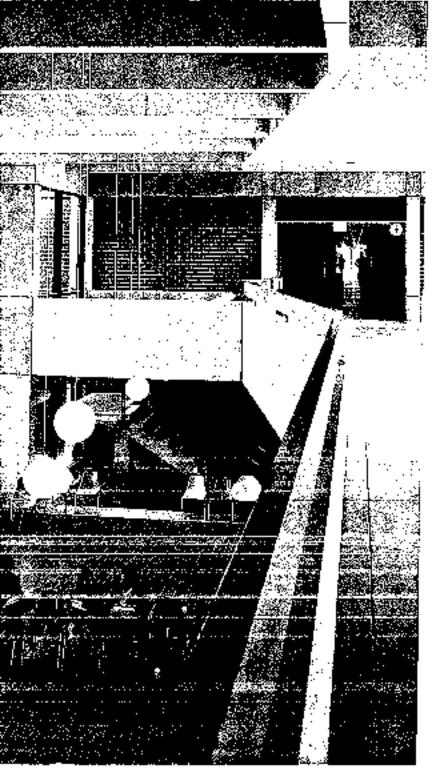
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kirkwaad community college 1971-72 satalog

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A publicly supported community college serving the lowe counties of morged area ten.



board of directors

B. A. JERSEN, Chairman
Kenneth, K. Kupka, Scoretary
Clair J. Lensing, Tecasurer
Morris L. Allen
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The Rev. Roy Wingate

ædministration

S. A. Ballantyr.e Syperintendent

Ira E. Larson Assistant Superintendent

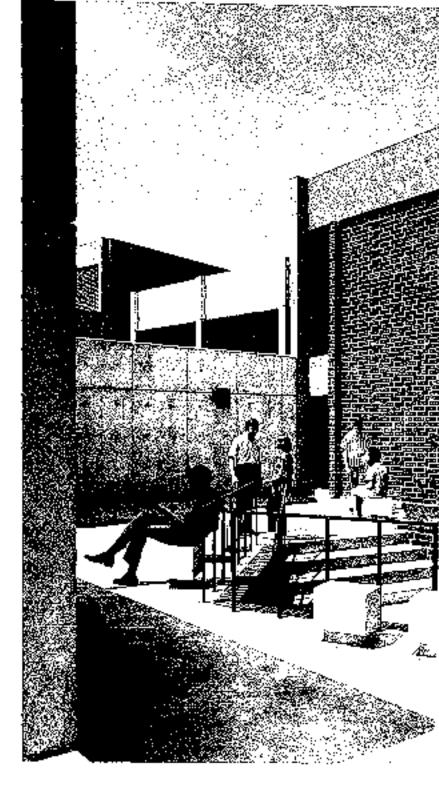
Kenneth K. Kupka Associate Superintendent of Administration

Version R. Pickett Associate Nuperintendent of Education

Hal W. Walter Associate Superintendent of Development

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superintendent's message

the institution described in the following pages is but one example of a capidly developing educational movement, the two year comprehensive community college.

Unit: rather meently, educational opportunities beyond high school were limited to junier and senior colleges and universities. The programs provided by these institutions served the needs of 1 celatively select group of individuals. As a result, the educational needs of many people went unmet, while the demand for botter educated and more highly trained individuals continued to increase.

Comprehensive community colleges are being established with increasing frequency to serve such needs and demonds. The programs provided therein vary widely in design and content, in order that the greatest number of geople of widely diverse needs, interests and abilities may be served. Thus, comprehensive community colleges provide programs for the career oriented and the college transfer student, for the mature sdult and the recent high school graduate and for the individual who wishes to complete high school and the one who has completed college.

Kirkwood Community College is such an instantion 30 provides theory different educational programs for the people who live in Area Ton. These programs are described briefly in the pages which follow. I hope you will find something of interest and worth as you read through theory.

> Solby A. Ballantyne Sapermiendent





academic calendar 1971-72

SPRING QUARTER, 1971

March 1-2	Registration
March 3	Classes begin
March 8	Astult High School begins
March 9	last day to register or add classes
April 5	General Adult classes negin
April 5-9	Adult High School vacation days
April 5-21	Faster Holiday
April 12	Classes resume, including Adult High School
April 20	Midsterin
May 14	 Last day to drop individual classes without penalty.
May 27	General Adult classes end
May 31	Memorial Day Holiday
June i	Classes resume
June 2	Adult High School commencement
June 3	Lest day of regular classes, including Adult High School
June 4	Instructor-Student Conferences
	End of quarter
	Final grades due by 4.00 p.m.
Lune S	Commencement
June 9	Commencement, Adult High School

SUMMER QUARTER, 1971

Registration
Ciasses kepin
Last day to repister or add classes
Independence Day Holiday
Ciasses reatione
Mid-term
Lost day to drop individual classes without
penalty

August 26	Last day of regular classes					
August 27	Instructor-Student Conferences					
	End of quarter					
	Find) grades due by 4:00 p.m.					
August 28	Communicement					
	Shert sessions will be offered du					

Short sessions will be offered during the summer quarter, and dates will be made available through the Office of Admissions.

FALL QUARTER, 1971

Aug. 30 - Sept. 3	Registration)
Sept. 6	Labor Day Holiday
Sept. 7	Classes bogin
Sept. 13	Lest day to register or add classes
Get. 11	Columbus Day Huliday
Oct. 12	Classek resume
Det. 20	Mid-term
Oct. 25	Veterans Day Holiday
Oct. 26	Classes resume
Nov. 11	Last day to drop individual classes without penalty
Nov. 24	Lost day of regular classos
	Final grades due by 5:00 p.m.
Nov. 25-26	Thanksgiving Day Uohday

WINTER QUARTER, 1971

Nov, 29-30	Registration
Dec. 1	Classes begin
Dec. 7	Last day to register or add classes
Dec. 20-Jan, 2	Caristmus Holiday
Jan. 3	Classes resume
Jan. 2S	Mid-terro
Feb. 15	Lest day to drop individual classes without penalty
Feb. 21	Washington's Birthday Holiday
March 3	Tast day of regular classes
Match 4	End of quarter
	Vinal grades due by neon

SPRING QUARTER, 1972

March 6-7	Registration
March 8	Classes hogia
March 15	Last day to register or add classes
March 27-April 2	
April 3	Classes resume
April 25	Mid-term
May 16	Last day to drop individual classes without
	penalty
May 29	Memorial Day Hohday
May 30	Classes rosume
Jone 2	Last day of regular classes
Jone 3	Endoïquarter
	Final grades due by noon
	Complexicplent
	SUMMER QUARTER, 1972
June 5	Registration
Fune 6	Classes hegin
June 12	Last day to register or add classes
July 4	Independence Day Holiday
July 5	Classes resume
July 18	Mid-term
August 9	Last duy to drop individual classes without penalty
August 25	Last day of regular classes
August 26	End of quarter
•	Vinal grades due by acon
	Commencement
	Short sessions will be offered during the
	summer quarter and dates will be made
	available through the Office of Admissions,
	FALL QUARTER, 1972 Itentative)

Ang. 29 - Sept. 1RegistrationSept. 4Labor Day HolidaySept. 5Classes Bog nOct. 9Columbus Day HolidayOct. 23Veterans Day HolidayNov. 23Thanksgroug BolidayDec. 1End of Quarter



the college

Kirkwood Community College is a publicly supported college serving the lowa counties of Berten, Long Jones, Johnson, Cedar, and Washington as well as pertons of pine adjacent counties which are part of the merged orea. The total land area of the seven major counties served is 4.40° square males or 7.9 percent of the total land area of the state of lowa.

The college operates under the regulation of the lowe State Board of Public Instruction with the board of directors of merged Area Ten as its governing board.

HISTORY

The history of Kitkwood gues back in January, 1965 when a steering committee was formed to establish a voceturn school in this area. Work on the study began almost immediately and was completed by Fully, 1965.

Soon after, the state legislature passed lows which provided for the establishment of a system of community colleges and area vocational-technical schools throughout the sister balacators and laymen in Area Ten recognized the need for a comprehensive community college which would provide college transfer and adult effication conticula as well as vocational-technical conticula. Therefore, the inperior board of directors elected by the interiors of the area asked for god received permission to establish Kirkwood 4 optimizity College. The college was formally established on Early 1, 1966.

The college immediately assumed responsibility for operating what was then the Cedar Rapids Vocational-Technical School, which had been provided since 1964 by the Cedar Rapids Community School District.

The Arts and Sciences, Student Services and Adult Education Divisions were established on 1967. In 1970, a Community Services area was established and an evening college program was entiated.

Thus, in the college's short history, the foundation has been

established for expanded educational opportunities of vocational-technical education, college parallel and categoriented programs, adel) and continuing education, student services and community services.

RATIONALE AND PURPOSES

Merged Area Ten represents an emerging some-politioneconomic turit. It is an area in transition, minging rapidly developing urban centers and rich farm facts dotted with small ritial communities. Within its borders are many spare-age industries, prosperous farms, a many state op/versity and several private liberal arts colleges, and myriad supportive and several private liberal arts colleges, and myriad supportive and several private liberal arts colleges, and myriad supportive and several private liberal arts colleges, and myriad supportive and several institutions and industries. In this setting of vigorities economic expansion and rapid population growth, advancing technology has created coprecedented demonds for formuleducation and training programs. This size technology has simultaneously placed greates demands open the and wideal inhis role of responsible criterin

For years, Araerican society has taken for granted the importance of secondary schooling for the many and higher education for the few, Only recently, however, has recognition been extended to the need for post-ligh school education for the majority of adelts. Accordingly, institutions of higher education, although well source to the service of a select few, have not been prepared to satisfy the needs of the growing conters of individuals who desire to participate in post-high school education. Thus, the citizens of lows have delegated this responsibility to the comprehensive community college.

Kickwood Community (along is charged by law with the responsibilities of identifying the silocational needs and desires of adult edizens and of designing educational programs which will help them fulful their goals. Specifically, the law directs community colleges to provide the following: the preparation recessary for the productive employment of every edizen; vocational and technical training for persons who wish to enter the labor force, for persons already employed who used additional training or re-training, and for those who are handleapped, programs for first two years of college-parallel study: programs for high school completion; and student personnel and community services. To fulfill merge responsibleties, the college must remain a flexible and responsive institution, willing to depart from educational traditions, whenever necessary, in order to meet the interests of the people it services. Kirkwood Community College, therefore, is guided in this effort by the following purposes:

- To serve educational needs and interests of all people of post-high school age without regard to educational, social, economic, racial or religious backgrounds.
- To provide individuals with the technical knowledge and skills processary to enter into and progress in gainful employment.
- To qualify individuals to cross changing thresholds of employment.
- To extend individuals' awareness of the prerogatives and responsibilities of citizenship in contemporary society.
- To provide a setting in which individuals may increase their awareness of themselves and their varied environments and examine ideas freely and critically without threat or fear of recrimination.
- To serve as a center for creative expression and participation of the fine and applied arts.
- To provide individuals with avenues of exploration which to enjoyable and self-fulfilling use of leasure time.
- For help the community of Area Ten, and as appropriate the larger society, to enhance the quality of its intellectual, social, collural and economic life through the provision of educational programs and services.

KIRKWOOD FOUNDATIONS

The primary objective of the Kirkwood Community College Poundation and the Kirkwood Community College Facilities Foundation is the strengthening of Kirkwood's scientific, interary and educational pursuits. As two private non-profit corporations, the Foundations are empowered to solicit and receive tax deductible gifts and bequests, and trests; all for the beaefit of Kirkwood Community College. Any gift in Kirkwood, restricted or unrestricted, may be made through the Foundation.

The Poundations encourage voluntary giving to provide record funds for schedarships, followships, stadent loans, libeary acquisitions, faculty research grants, and other college needs, for which tax dollars are limited or unavailable.

The Annual Fund

The Foundations serve to channel gifts from alumni, friends, corporations and foundations to the college through the Annual Fund. Theorsands of gifts will be received each year as the result of comparises conducted by mail, telephone, and personal contact.

The Foundations also coordinate planted giving in the form deferred gifts through bequests, living trusts, testamentary trusts, life historance agreements, life income contracts, and gift annuaties.

Memorial Funds

Permanent momorials on the campus, "numed" scholarslops, professorships, facilities, or areas in buildings are also coordinated through the Foundations.

ACCREDITATION

Kickwood Community Hollege is accredited by, and is a member of, the North Central Association of Colleges and Secondary Schools, Kirkwood is also approved by the Board of Regents and the Srate Board of Public Instruction, Individual programs within the millege are accredited by appropriate associations within their respective fields.

FACILITIES

The Kirkwood main compositionated at 0.301 Howling Street S.W., is a 315 acreate on the south edge of Cedar Rapids. The first permanent building. Lum Hall, was completed in the fall of 2069. It contains 40 classrooms, 35 laboratories, offices, a bookstore, multi-purpose mom, and a cafetoria.

The building houses over 40 foll-time volutional-technical otherings plus science and foreign language biboratories and classrooms. Some day and evening adult execution classes are also offered in turn Hall.

Twenty relocatable buildings are being used on a sate adjacent to Linn Mall. These buildings, including classrooms, laboratories, a learning resource center, and student tounge, are being officed primarily by the Arts and Sciences and Adalt. Education Divisions.

The Agriculture Mechanics program is housed temporarily at 1207 Rockford Road S. W. Next door, the Relabilitation Facility houses the program of services for the handhrapped. A full educational program involving basic education, high school completion, vocational-technical training and Arts and Sciences extension is being offered at the Iowa State Men's Reformatory at Anamosa. An Adult Education center is also in operation in Iowa City.

In addition, some this high solidol buildings, churches, neighborhood opportunity centers and other facilities are made available to the college turough cooperation with school districts of the mergod area. This represents a coordinated network of expanded offerings and makes educational opportunities available to all people of the area.

In a number of programs, students utilize clerical and on-the-job training in business and industrial facilities and in public and private medical and dential facilities throughout the state.

LEARNING RESOURCE CENTER

The Learning Resource Center (5.RC), the modern concept of the college library, is 'reared on the transitional caragos, Students have direct access to the book shelves, Currently, the center has 14,500 volumes and expects to have 16,000 by January of 1971. Becks are arranged according to the Dewey Deemosl Classification.

Otten books and articles are placed on reserve for use in class assignments. These reserve materials are belyind the circulation desk and must be requested from the attendant on duty.

A reference collection containing distribution entry dopodues, anamass, handbooks, and hibbitographic graterial is shelved separately from the regular book collection. These materials must be used within the learning resource center and do not enculate.

The LRC provides a collection of several isondowd current popular titles including fullion and nonfaction. New titles are added each month. This collection is stelved separately, but circulates in the same manuar as the regular collection.

The LRC subscribes to over 200 periodicals covering many fields of interest. Periodicals do not circulate, but are readily available for use in the center. A buildings file of periodicals js kept in the card catalog. A copying machine is available for students wishing to copy material at a minimal charge.

Tape moorders, filmstrep projectors, slide projectors, and record players, along with both musical and spoken recordings are also available to students in the LRC. A dial access system is housed in the LRC. The programs on the dial access are dictated by the staff seconding to the instructional needs.

In order to these out LRC materials it is necessary for students to present their Kärkwood ID card at the circulation desk.

The coster is open at the following times:

Sunday	0.00 PM to 6.00 PM
Monday	8.00 AM to 5:30 PM
Tuesday - Thursday	8:00 AM to 8:45 PM
Friday	8-00 AM to 4:00 PM
Setuday	CLOSED

The Center is staffed by professional librarians who are assured by student aides.

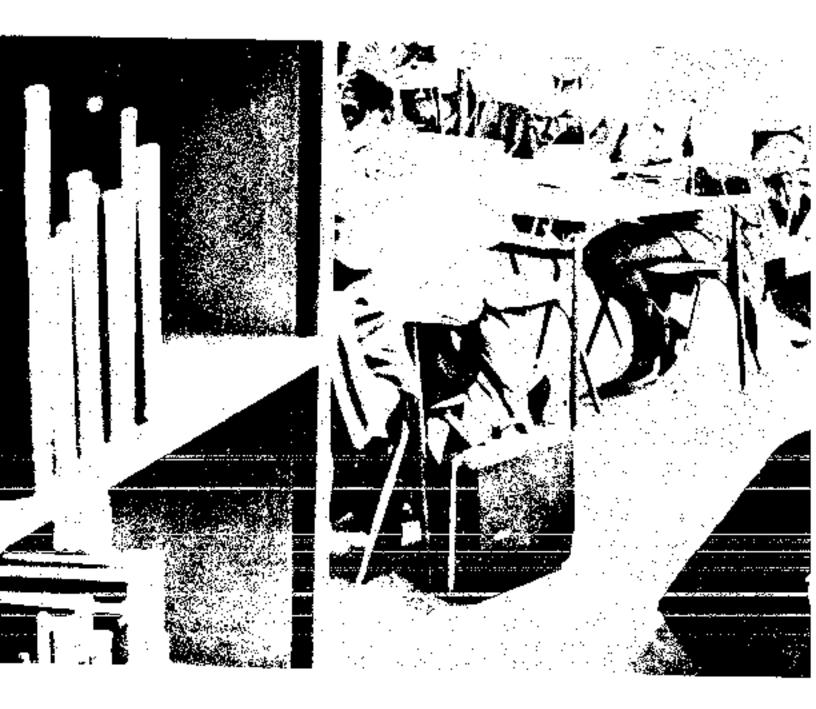
BOOKSTORE

The College Bookstore is located in Long Holl, The Bookstore is one of the services of the Development Office, it is owned and operated by Kirkwood Community College with all of its assets, obligations and policies under administrative control. All carrieges are returned to student-related functions.

Besides maintaining a sufficient supply of textbooks needed for all courses at Kirkwood Community College, the Bookstore carries a full complement of supplies, soft goods, class jewelry, and course-supporting paperbacks.

To help reduce textbook costs the Bookstore operates a resed book facility which allows a student to sell back a previously purchased book. This also affords other students the opportunity of purchasing these used copies as reduced prices. A reputable used book company representative is on campus at different times during the year. He will buy back those books being dropped from charge schedules, providing no new edition is pending and providing the book has a market value.

Regular Buokstors hours are 9:00 a.g., to 4:00 g.m. Monday through heiday plus Tuckday and Webnesday evenings from 7-00 p.m. to 9:00 p.m. The Bookstore Fours are extended to meet special express events.



programs of instruction

ARTS AND SCIENCES

The Arts and Sciences Division is printarily concerned with providing college parallel transfer and chief-criented programs for these students who wish to begin their collegings or occupational education in a community college setting.

Programs in the Arts and Sciences Devision have been designed to help students in two principal ways.

- College parallel transfer programs permit completion of the first two years of a regular baccalanceate degree program.
- College parallel career-oriented grograms have been established for persons who are interested in pursoing a specialized occupational program, our who may not be interested in completing a four-year college program. While many of these courses are transferable toward a baccalaticate degree, then primary purpose is to prepare for 2 career.

Stratents who successfully complete a full program in the Arts and Seconds Division are awarded an associate degree. It is nowable for a student to carr, an associate degree while arreading office bull or pact-time daring the day or evening hours.

DEVELOPMENTAL

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A number of opportunities are available for individuals who do not possess the teaming skills required for thom to achieve their educational and occupational goals. These individuals may have difficulty in any or all of the following areas reading, writing, speaking, studying and reathermatics. Some may not be as knowledgepide as would be experted in such areas as history, psychology, science, etc. As a result, they may encounter barriers in achieving the above goals.

Opportunities available at Knicwood Community College include individual and group instruction at basic learning skill inclusion education, reading, writing, speaking, studying and mathematics, and in subject areas such as distory, government, sociology, gsychology and science. The content of each course is grated as much as possible to the level of skill and background of each individual student.

In many respects, the programs offered in reliabilitation, basic adult education and high vehical completion and in a significant number of courses in arts and sciences are developmental tainature. They are described in other sections of the catalog.

COLLEGE AND UNIVERSITY EXTENSION.

Extension courses are offered by the Arts and Secondas Diversion of courses and with the Adalt Education Ocvision. Those classes, which yield regular college credit, are available in various locations the sughout the merged seven-county area.

livening or Saturday charses, most of which yield graduate eredit, are offered by the extension divisions of the University of Iowa, lowa State University and the University of Northern Iowa in enoperation with the Adult Education Division of the college.

VOCATIONAL-TECHNICAL

The college offers programs varying in length from several weeks to two years in the vocational-tochnical areas. Over 40 dialetoni programs in the areas of data processing, health, approximate, home economics, business, and trade and industry.

are being offered. Students muy encoil in programs on a full-time or part time basis during both day and evening hours. These programs provide ctudents with sateable skills for wooring full time employment in humness, industry and health services, and retraining opportunities for those who are unemployed or under-employed due to automation and technological change.

Kukwood Community College Itas organized classes for those people who are presently employed or cannot strend full time programs. Courses for upgrading skills in order to enter into a more intensive training program are offered, Related classes are also operated in cooperation with high muons for their apprenticestip programs. Programs to meet specific needs of individual businesses and industry are offered by arrangement.

SPECIFIC TRAINING PROGRAMS

In-Plant and In-Service Transing provide special training or retraining of individuals for specific occupational needs withouindustry or locatess. Both are designed to train new couployees, notp upgrade or advance qualified couployees, settian employees and develop sugerVisory personnel.

Career Opportunities Program

The Career Opportunities program (CGP) is a national priority activity under the Education Professions Development Act of 1967. It is directed entirely to the educational needs of persons of low income background including Vietnam veteraas. The objective of the program is to attract capable persons to careers in education in a way shat will improve both estigation and employment opportunities for the point by establishing the enrollees on career laddets in education.

In the Cedar Rapids area the Cateer Opperturbities program is administered by the Joint Coanty School System. The 60 participants in the orben-rural work-study program work part-time in their home communities and weighborhoods as teacher aides while they altend part-time classes at Kickwood working toward an Associate of Arts degree. Upon completing this degree they will transfer to an accredited four-year college to complete a degree in education.

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Work Incentive Program

The Work Incentive (WIN) program is a federally funded program for individuals on Aid to Dependent Children (ADC) which is almed at getting these same individuals into the work stream. Kirkwood provides academic training for participants on a contractual basis.

MOTA Programs

The primary purpose of the Manpower Development Training Program is to provide education and training for anequployed, undetemployed or disadvantaged persons in various accupational fields. The college comparates with the local employment service, cooperative Area Manpower System Committee and state MDTA personnel in development and operation of these programs.

REHABILITATION

The primary objective of the Rehabilitation Facility is the preparation of bandicapped persons for fiving the follest life possible Educational, vocational, personality and leisure-time goals are persued by each actividual through the special environment of this facility.

A full complement of ancillary services and personnel are available, including compactors, psychologists, psychiatrists, physicians, social service, specialists, teachers, evaluators, and job placement experts. The entricidum provides a continuum of programs and services, ranging from adult basic education and high school completion to Vocational-Technical framming and Arts and Sciences courses for handleapped students. The students are served on an individual program basis from 8 AM to 5 PM duity.

ADULT HIGH SCHOOL

The Adult Righ School is designed for adults who have nor completed high school. It recognizes the characteristics of adults, including a much wider range in obrohological and mental age than a contral high school and takes into consideration the wide range of experiences encountered by most adolts. It provides conditions which encourage all students to learn successfully at their own pace, according to their own meas of interest.

Each student receives personal and informal attention from the teacher, who is a co-worker or the learning process saties that an authority apart. Learning is evaluated only within the context of each student's abilities and goals - never in comparison with others nor by the time required to complete the course of study.

Correspondence Courses

The Adult Education Division of Kirkwood Community College offers correspondence studies using programmed incriticitianal materials for thuse who wish to earn a high school diploma but are unable to attend classes. One quarter credit is given, for each of the courses completed. A diploma can be canned from Kirkword Community College or from the local school district. Students have one year to complete each course (See listing of individual courses in the last section of this catalogic formation can be obtained from the Adult Education Correspondence Division.

ADULT BASIC EDUCATION

This area is intended to serve adults who have less than an eighth grade educational achievement, or who wish to review basic sometic matter before entry into the adult high school. It can also be helpful to those seeking the Iowa High School Equivalency Certificate by taking the Central Education Development fluct (G.E.D.).

Individual Learning Lab

The Individual Learning Lab is despited to let the student work in the subject mother areas he chooses at his connectience. The lab maintains an open door policy from early manning and late at the evening on the following schedule: Monday through Friday, 8 a.m. to 5 p.m. and 6 p.m. to 10 p.m.; first Seturday of each month, 8 e.m. to noon.

Courses include Adult Basic Education, GED preparation, and any of the Adult High School subject matter area.

The Individual Learning Lab Center is open the same times listed for GED Testing.

EVENING PROGRAMS

The ovening program is offered in both arts and sciences and vicarinnul-technical programs on the basis of need evidenced in the community. Students may encoll in vocational technical programs in agriculture, business, data processing and trade and industry. Arts and sciences courses are offered in social science, business, mathematics, science, Friglish, art, music, foreign languages and speech. Adults may complete a two-year associate degree to the evening in approximately twice the length of time required in day programs.

GENERAL ADULT EDUCATION

Class offerines in General Adult Education are as wide as the range of adult interests, including academic, vocational, recreational, and collural pursuits. Need and interest of people determined the programs to be offered. There are over a hundred courses to choose from in recreational areas such as bridge and swimming, intellectual areas such as Russian, and practical areas such as typing or sawing. Classes in this area are offered in 40 school districts throughout the seven-county merged area of cooperation with local school boards. The classes are self supporting and offered as a community service in cooperation with local school districts

COMMUNITY SERVICES

Many activities of a general or specific community interest are developed under this category. Examples include: The "Great Decisions" group-discussion series and related activities, sponsored in conjunction with the Foreign Policy Association; Area-wide Civil Defense Education courses conducted in association with the Department of Public Instruction, a workshop in "Conformation: Education" for a group of eastern lows ministers: a "Skilled Needs Survey" of the jub level and manpower needs of area industries.

One-day workshops and seminars are provided in tesponse to local noeds. Home study and discussion courses are also an important feature. Focure plans include such activities as film and lecture series, concerts, louis, seminars, conferences, and other items of community interest,

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student services

ADMISSIONS AND RECORDS

The Office of Admissions and Records is located in Linn Hall, 6301 Bowling Street S, W. It is open from 8.00 to 12:30 and from 1.00 to 5.00, Memilay through Friday, to addition, organized are available. The atay and Wednesday evenings and each Saturday economy from 9.00-12:00 to assist potential students. For admissions information, call the Office of Admissions, 398-5517.

Admission Policies

It is the policy of Kirkwood Community (foliege to accept for atmission into its Arts and Sciences and Vocational-Technics) Divisions all judividuals with either a high school diploma or its equivalent, as determined by the General Education Development testing program, Mature adults who have not completed high school may be admitted, on an individual basis, to various programs offered by the college,

Admission to the college does not, however, instare admission to all programs offered. The college reserves the right to golde the placement of students on the basis of courseljug, examination, pre-ensellment atterviews, and past academic achievement.

It is the pulsey of the college to consider the total updwigual in admission to the various programs. There are, therefore, no absolute admissions standards concerning performance on required admissions tests and past academic record. Each person possesses multi-potentialities and, as an applicant, must be viewed on the broadest possible way in relation to admission to any and all of the college's programs, Admission to programs is gorited on an ongoing basis as applicants complete required admissions procedures. Applicants will, therefore, find it to their advantage to apply as soon as they have decided to seek admission to a program. Prospective students may apply at any time after the completion of their junior year in high school and gain in early admissions decision. Applications are accepted up to the day of registration in many college programs, however, if the college staff is to be of maximum assistance with pre-encoliment metters, an applicant should complete his application at least a month in advance of the expected entrance quarter.

Admission Requirements and Procedures

No application for admission will be acted upon until all admissions materials and procedures, as multimed by division below, are completed.

All admissions materials are to be submitted to the Admissions Office, Kirkwood Community College, P.O. Box 2068, Cedar Rapids, Iowa, 52406.

Vocational-Technical Division

All applicants for the programs in the Vocational-Technical Division, which archites the Agriculture, Bosiness, Data Processing, Bealth Occupations, and Trade and Industry Departments, are required to perimite the following adcrissions materials or procedures,

1. An application for admission,

- Submit a \$15.00 application fee with the application for admission. This fee as non-refundable and does not apply roward tultion or other loss.
- Kirkwood Health Certificate completed by a licensed physician.
- 4. The results of the GATB (General Aptitude Test Battery), This test entiry is given at Kirkwood on scheduled dates throughout the year. Information about test dates may be abtained from the Admissions Office. The test walso given by state offices of the United States Employment Service. High school courselors can also provide applicants with additionation shoul the GATB.
- 5. A high school transcript or GED test regults or Equivalency Certificate. In the case of applicants still in high school at the time of applying, a final transcript inust also be submitted following high school graditation. (See also "Admissions Policies," page 9, for those not possessing either a high school diploma or its equivalent.)
- A personal interview is required in most programs in the vocational-technical disfuor. Applicants will be activid about this on an andividual basis after all other application, materials are submitted.
- Transcripts of any and all provides post-leigh school training undertaken.

Arts and Sciences Division

All applicants to the Asts and Sciences Division are required, to submit the following application materials:

- An amplication for admission.
- A STNUC application for with the application for admission. This fee is non-refundable and does not apply toward fulfion or other fees.
- A Kickwood Health Certificate completed by a licticed physician.
- The results of the ACT (American College Test). This must be an official score report received from ACT.

Headquarters; score reports contained as part of a high school transcript cannot be accepted. Kirkwood's ACF code number is 1275. This test may be taken as a junior or senior in high school or following graduation.

 Transfer students must also submit complete transcripts of any and all previous college work.

Foreign Students

Students from foreign countries who wish to be admitted to Kirkwood must submit.

- Evidence of adequate financial resperces.
- Evidence of the ability to speak, read, write, and injderstand spoken English sufficiently well to profit from studies elected.
- Character references from at least five educational and protessional sources.

Adult Education Division

With the exception of Adult High School Completion, admission to adult education programs is varied and flexible, Individuals interested in admission to Adult Besic, Genetal Adult Education, and Adult Part-time Vocational programs are advised to contact the Adult Education Devision for information regarding admission.

Adult High School

Appleants to the Adult High School must be 18 years of age. However, exceptions may be made for tanks under 18 years who wish to enter the program with the following stipulations: that a written recommendation for admission to the Adult High School be submitted by the applicant's normal high school superintendent, principal, or counsion; and that no student may graduate abead of his normal high school efast.

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In addition to Adult High School course work taken from Kirkwood, credit may be granted to students of the Adult High School for the following: previous high school courses (with a passing grade) from an accredited or state approved high school, including correspondence school; competencies demonstrated through High School Equivalency Certificate (G.E.D.) testing: work experience which conforms to the criteria ostablished in the "Scale of Specific Vocational Prenaration." published by the U.S. Department of Labor; and industrial training programs which comply with the standards expressed in "A Guide to Evaluation of Educational Expericision in the Armed Services."

Adult High School is operated on the quarter system. Students take 36 junus of classroom instruction and 4 bours of independent study each quarter,

Rehabilitation Facility

Any person who is landicapped intentally, physically, emotionally, economically, vocationally or socially, may entell in this program. Admission may be made at any time by contacting the Rehabilitation Center, Social Welfare, Division of Rehabilitation Education and Service or the Admissions Office at Kirkwood Community College.



Tuition and Fees – Arts and Sciences and Vocational-Technical Divisions

Residents of Lowa (See "Residence Qualifications") Full-time study" \$125.00 per 12 week quarter. Part-time study" \$1.00 per credit hore. Audit course work Students "auditing" or carrying courses for "no credit" are assessed tuition at the same rates as regular are off course work.

Nun-towa Residents (See "Residence Qualifications") Full time study"

\$187.50 per 12-week quarter.

Part-time shedy?

\$16.SU ger credit hour ...

A addi equitse work.

Our of state students "auditing" of eacrying courses for "the credit" are assessed toution at the same rate as regular credit coursework

*Definitions

"Full-time study" 12 quarter mours credit or more in arts and sciences. All regular Vocational-Technical Division programs are considered full-time except those less than 12 weeks in length. In these cases, tottion is pro-rated based on the length of the program.

"Part-time study" less than 12 quarter bours of credit: "audit" courses are figured at the usual credit hours applicable.

Certain courses in the Arts and Sciences Davisina and programs in the Vincational-Technical Drvision carry special ices. These fees are assessed only in cases where special equipment and/or consumable supplies and materials are used and help to offset the cost of these items. Such fees are paid quarterly and are numinal. Students should check individual program brochares for the latest figures on fees for courses and programs they plan to enter. All students pay a student fee each quarter accuming to the schedule below:

7 of more epicified hours	310,00
Less than 7 entrolled hours	\$ 2.00

This fee covers a variety of doms and services, e.g., parking, activities, ID card, newspaper, etc.

Other Fee Arrangements

Part Time Vocational

Tailien for part-time vocational programs depends upon the length and datuse of the course, ranging from \$5.00 to 565.00. Normally, blocks and materials are not included in tunion

Released itation Facility

There are no tration fees for students. All costs are assumed by the referral agencies,

Tuition and Fees - Adult Education Division

Adult Bear Education (ABF)

There are no taition fees for students, Books and other materials are provided free of charge,

High School Equivalency Certificates (GPD).

Application fee for High School Equivalency Certificate testing is \$5.00. An additional fee of \$5.00 is charged for issuance of the High School Certificate itself.

Adolt High School

Tuition in the adult high school is \$18,00 for each course, Books and other materials are provided free of charge, Expendedle items must be paid for by the individual student.

Students may register at the beginning of each quarter (September, November, March, June). Also, students may enroll in the class at any time during the quarter. There is no registration fee.

General Adult Education

Torition for general education programs depends upon the length and nature of the course, ranging from \$5.00 to \$40.00. As a rule, turbon averages 70 cents per student-contract-hour, or \$14,00 per 10-week course. Books and other materials are not included in turbion. These courses are self-supporting.

Senior Curzons Privilege

Persons 65 years of age or older may enroll for a fee of \$1, if the coarse is operating with all east eight turnon paying students.

Correspondence Courses (High School)

Tuifion is \$20 per course, Books and related materials are fornished by Kukwood Community College upon receipt of tuition

University Extension

Fees vary depending upon the nature of the course and the participating university, ranging from \$32,00 to \$34,00 per semester hour. Books and materials are not metuded in tuncon. Registration is in September and January, as well as other tunies of the y-ac.

Arts and Sciences Extension Classes

Fulture is S11.00 get credit hous, part-filme and S125.00 get quarter for full-time students. Initial application (e) is S15.00. This is a non-refundable processing fee which is submitted with application form, Books and materials are not included in theory.

Fees – Community Services and Special Projects.

Controlicity Services and Special Projects.

Fees vary with the cost of development and the staff section to carry on the programs. Programs are generally soft-supporting.

Refund of Tuition

In the event 1 student withdraws from the onlinge prior to the end of 1 quarter, he will receive a refored of tuition according to the following schedule:

Time of withdrawal	Percentage of refund
Refore the end of	
(he first closs wee); of the quarter	<u>40</u>
the second class week of the quarter	т 50
the third data week of the quarter	40
the fourth class week of the quarter	20

No refund will be made after the fourth class week of the quarter.

Students who must withdraw for reasons of personal health, as certified by a physicial, or because of induction, but not enlistences, new the armed services, will receive a full refund. The time of withdrawal has no bearing on this refundprovision.

In is the responsibility of the student to request a full refundand supply any necessary supporting documents required.

Special course and program twos as well as student focs are non-refer dable in the event of a student's willidrawal.

Residence Qualifications

Students enrolling at Kirkwood Community College shall be classified as resident or nonresident of fowe for admission, teo, and tuision purposes by the Registran's office. The decision shall be based upon information furnished by the student and all other relevant information. The Registran is authorized to require such written documents, affidavits, verifications, or other evidence as are deemed necessary to establish the domicits of a student, including grouf of envancipation, adoption, award of custody, or appointment of a gravitiae. The burden of establishing that a student is exempt from paying the nonnesident furtion is with the student.

Review Committee

The decision of the Registrar's Office on the residence of a student for admission, fee, and tertion, purposes may be appealed to a review committee. The finding of the Review Committee shall be final.

For further (r) orpeation on residence classifications, confect the Reputer's Office.

FINANCIAL AID

Index most financial aid programs exist to make possible a college education for qualified students regardless of their economic circumstances. The aid program at Kirkwood is based on this principle.

The student and his family are expected to make a maximum effort to meet college expenses, ld it is determined that a family cantel meet the full costs for a year, assistance will be provided to the greatest extent possible from the various aid sources available.

Educational Opportunity Grants

Educational Oppretently Grants are available for students with "exceptional fatancial need" who would otherwise be unable to continue their education. Grants are made possible by the Higher Education Act of 1965. In addition to financial need, a student must also show academic or creative promise, and be encoded to a full-time program at Kirkwood. Educational Opportunity Geants carnet exceed one-half the sudent's total "meet," and grost be matched by the student with a logic compast employment, or other institutional Aid.

National Defense Student Loans

National Defense Student Loads make available loads op to \$1,000 per student for each academic year. Statents transferring to another school can apply for further loads, but the maximum cannot exceed \$5.000.

The repsyment period and the interest do not begin antinine months after the student leaves tollege. Interest is at the rate of 3% percent per year, and payments on the principal may be extended over a ton-year period. If a borrower beginnes a full-time teacher, as much as half of the loan may be furgiven at the rate of ten percent for each year of said type of employment.

College Work-Study Program

Part of the Economic Opportunity Act, the College Work-Study Program has provided funds to help secure jubs for students from limited morphe families.

Students may work up to 15 kours weekly while classes are in sustion, and up to 40 hours during weeks when no classes are scheduled. In general, the basic pay rate is monimum wage, although higher rates may be paid for specialized work.

To participate in this program a student must be emotied and be in good standing, or be accepted for throllment as a full-time student. Student eligibility depends upon the need for income from employment to meet direct college costs,

Law Enforcement Assistance

This program was recently established by the U.S. Department of Justice to help train students in "the improvement and strengthening of law enforcement." The money is available through the Orimitus Crune Courted and Safe Streets Act of 1968 and is awarded in the frient of locus and grants on the basis of friended need to qualified applicants, Grants are available for "intervice" law enforcement personnel mily. Loans are available for those wishing to enter a career in law enforcement.

To qualify for a loan a student must be accepted for

enroliment, or he enrolled full-time in a program of studies directly relating to law enforcement. To qualify for a grant, a student must be a member of an existing Law Enforcement Agency, and may be a "part-time" student. The foans advanced to any one recipient may not exceed \$1,800 per academic year. Grants are used for futtion and fees and may not exceed \$200 per scudentic quarter

Federally Insured Student Loans

The Federally Insured Student Loan Program was created under the provisions of the Higher Education Act of 1968. This program provides for students to apply for loans from participating banks or lending institutions to help pay their educational costs while attending school.

Regardless of family income, any student desiring to pursue a post-secondary education is eligible to apply for a loan provided he or she

- Is encoded and in good standing, or has been accepted for enrothment in an eligible school;
- Is carrying at least one-built of the normal full-time workload as determined by the school;
- Is a circum or regional of the Luited States, or is in the United States for other than a temporary purpose.

Students may apply for a maximum of \$1,500 per academic year. The total outstanding principal balance may not exceed \$7,500 at any time. Full-time students attending school 12 montes a year are eligible to apply for an additional sum up to a maximum of \$2,000 with the submission of a separate application and under the condition that the \$1,500 maximum total amount for a 9 month academic year is not exceeded, Repayments start 10 months after completion of the program at 7% interest. The U.S. Government will pay the interest for those students whose gross family moone is order \$15,000 while they are in school.

State of Jowa Scholarship Program

The 1965 session of the lower legislature established a state scholarship program for the benefit of lower students attending colleges or unoversities within the state. State schotarships are based on the timenoist needs and academic ability of the students, and may be used only for tuition and mandatoryfees.

Veterans Education Benefits

Correct courses for the Atts and Sciences Division as well as some 42. Vocational-Technical programs are approved for Veterans Benefita. Generally, these veterans who have been released from Active Duty under honorable conditions and who have served J&I days or more of continuous active duty after January 31, 1955 are eligible.

buy further information see the Student Handbook or constact the Office of Veterary Affairs, Room 123A, Lint, Hali-

Rehabilitation Services

Students who, by reason of physical or mental dominities, must the alighbility requirements for rehabilitation services, may secure financial and through the Division of Rehabilitation Education and Service. A full-time counselor is available to assist students.

Short Term Loans

The Kiwanis Chih of Murjor and St. Paulis Methodist. Chirch and Peoples Charch, both of Cedar Rapids, have provided funds for short-term loans available to trill time students of Kirkwood Community College. Loans are granted interest free to qualified students with repayments to start in 30 days and be completed within 90 days.

Foundation Aid

Two Kickwood Contenuity College foundations have been established to coordinate financial and for stedents. Donations to these foundations are made by ervic and religious organizations, boundeses, industries, organizations and private individuals. Aid awards are made upon the basis of need as determined from an application. Assistance from this program is used only for in-science expenses. Financial aid awards may take the form of grants-meand in of toans.

Application Procedures

In order to receive assistance shrough any of the programs

administered through Kirkwood Community College, a stadent should complete the following steps

- Obtain the proper forms from the Office of Financial Aids, Kirkwood Community College, Long Hall, 6301 Bowling Street S. W., Cedar Rapids, Jowa, 52406.
- Return the completed Kirkwood Aid Application to the Office of Financial Alis.
- Complete the ACT Family Financial Statement and retrain (his to the ACT (along with the stapulated processing fee) indicating that you wish to have an ani attalysis sent to Airkwood. Community College (Code (1275), The ACT Financial Statement may be secured from the high school controlog's officer, or front the Office of Fatancial Aids at Kirkwood.

DEADLINES

Applications for Educational Opportunity grants, College Work-Study, and National Defense Student Loans must be received by June 1 of the Financial Aids Office, In consideration for aid in an academic year starting in September, Regarding other sources of and contact the Financial Aid Office.

PLACEMENT SERVICES

The Placement Office, Room 123, Laun Hall, fulfills the toilcowing functions:

- Helps students to find part-time employment.
- Assists graduates to somre full-time employment.
- Heips to locate suitable work for students who leave school prior to graduation.
- Assists former Kukwood Community College students to libble apployment.
- Conducts follow-up studies of formet students.
- Indeavors to manuals as accurate picture of employmentneeds and frends in the community.

In order to affilize the service, students should complete the sppospriate forms for other part-time or full-time employment. Registration forms are available in the placement office. The Placement Office should be notified of job acceptances promptly.

COUNSELING SERVICES

The college provides a staff of professional counselors to assist students in vocational and educational planning and in solving problems of a personal or social nature.

The normetors seek to help students make decisions and plan for their future. Upon application to the college, each student has an opportunity for an individual conference with a member of the counseling staff to consider his high school backgrooorl, appropriate test results, interests, aptitudes and goals. He is assisted in selecting an appropriate corriculum and in determining his course of study.



A syndent who experiences difficulty or dosatisfaction with the particular curriculum that he has selected is oncoutaged to make use of the chanseling source for further discussion with the courselot and/or for individualized aptitude, interest and personality testure

Assistance is also available to all students who deare help in acquiring better study battits, developing satisfactory personal and social relationships, sulving financial problems, selecting a transfer school, and learning about employment possibilities. The counseling service maintains a file of occepational information as well as catalogs of representative colleges and universities.

Compactors are available and prosent in each of the divisions of the unitege. Students in all programs have access to compacting services, including those students enrolled in evening choses. In addition to providing services to enrolled students, compacting is available to potential applicants to the college intering the normal business hours, evenings and Saturday mornings.

STUDENT HOUSING

The college rise if does not directly place students in off compus housing. Students and parents have the responsihilty of securing a list of college recommended housing from the Student' Afflins Office, visiting available facilities, and reaching agreement with the householder concerning rental, house policies, provideges and responsibilities. If at all possible students should arrive on campus prior to the date of registration in order to find saitable heasing. The cost of off campus housing is generally in the range of 59 to 515 perweek.

A publication, the Off-Campus Housing Policies and Guidefaces Broklet, available in the Student Affairs Office, will give further Information.

SUPPLEMENTARY SERVICES

Student Accident and Health Insurance

Students are encouraged to secure accident and health insurance. Student insurance is available at the time of registration and at other times may be purchased through the Student Alfairs Office. An earnitment limitation date is governed by the austrance company

Parking

Kakwood provides campus parking for students and strives to mannain, through car registration and regulation, a parking program which allows appoint the for all craceened. Parking space is firmted and with increasing emotionent with undoubt edity continue to be so.

Bus Service

Bos transportation between Cedar Rapids and Kickwood is provided by the city bos company. The bus arrives on campus on an hourly basis, beginning at nu30 a.m. and ending at 3140 p.m. It will stop in front of Line Hall and also at the transitional campus. Special rates are evailable to Kickwood students, and hav schedules can be obtained in the Student Affairs Office.

Launges

Student loonges serve as "community centers" for the college where students, faculty, suministration, alumni and guests can gather informally. Food service and vending machines are provided on the main campus.

CO-CURRICULAR ACTIVITIES

Student Congress

Each foll a strutent congress is elected by the strutent body. The Congress is composed of a president, vice-president, secretary, treasurer, and representatives from the different divisions of the college. All student activities are under the direction of the Student Congress and the Dean of Student Affairs. Much of the responsibility for the success of the activity program depends upon the representatives of the student body. The purpose of the student congress shall be:

- To provide a means of organized student expression in college.
- To encourage and promote interest or college atfairs and activities.
- To provide a means whereby the administration of the college may be aware of studept pools, opinions and actinuous.
- To develop and promote activities that will earlieb the social, authoral and adademic life at Kirkwood Companyity Oplices.

College Senate

You College Senate projects broad college policy and guidelines for implementation regarding issues of college wide importance and ochcern. The Senate is based on the belief in diared responsibility in decision making, and thus represents the highest level of participation, within the total college. It is composed of the Supersituedent ex-officio and 25 voting members including 15 professional staff members, 3 administrative representatives and 6 students, one of whom is the President of the Student Congress.

Student Publications

STUDENT NEWSPAPER

Constructions, a semi-monthly community onlege bewapaper, is written and edited by a student staff under the direction of a Publications Board, and with the consultation of a faculty advisor. Any student interested in working on the staff, or in submitting material for publication, should contact the Student Affairs Office.

COLLEGE MAGAZINE

The College magazine, newly organized to replace the traditional yearbook, is also published by a student waff under the direction of a Publications Board, and with the consultation of a faculty advisor. Any student reterested in working unthe staff should contact the Student Affairs Office.

STUDENT STAFF DIRECTORY

The Student-Staff Directory is a cooperative venture of the Student Congress, the Office of Student Affairs and the Community Relations Office. The Directory is printed after final registration in the fall, it includes a complete list of student and staff names, alloresses and phone numbers,

STUDENT HANDBOOK

This annual publication provides new and contenting students with pertinent information about the community college. Students should make themselves familiar with its contents. Ideas and materials for the Handbook may be submitted to the Office of Student Atlants.

ACTIVITY CALENDAR

The Activity Calendar is published anneally by the Student Attains Office, the calendar contains dates for various college events, such as, athletic programs, intranurals, dapees, club meetings. The purpose of the calendar is to promote effective communication among organizations and to evoid conflicts as the student activity program,

ACTIVITIES BULLETIN

The activities fulferin is published every Friday by the Student Asfairs Office. It contains specific information on specific events. All information must be submitted to the Student Affairs Office by 1:00 pint each Thuisday in order to be included in the weekly publication.

CLUBS AND ORGANIZATIONS

Many clubs and organizations which rayed the contral interests of various student groups are in operation on campus. Recognition of such clubs may be gained by securing application forms from the Student Affairs Office and petitioning the Student Congress for recognition, buoulty advisors are designated as sponsure upon request of the club. Such groups purcicipate in the areas of art, music, political, and international affairs, departmental or professional subject groups and refigious activities. Co-curricular activities are apintegral part of student life at Kirkwind,

Athletics

INTRAMURALS

Every student is encouraged to participate in the instrument program. Intramural activities are founded upon the principle that participation in organized competitive activities contrihutes to the general physical development and social welfare of the students.

Included in the intramutal program are: baseball, golf, bowling, volleyball, basketball, soccer, football, swimming, ping pong, cliess and obserkers.

INTERCOLLEGIATE

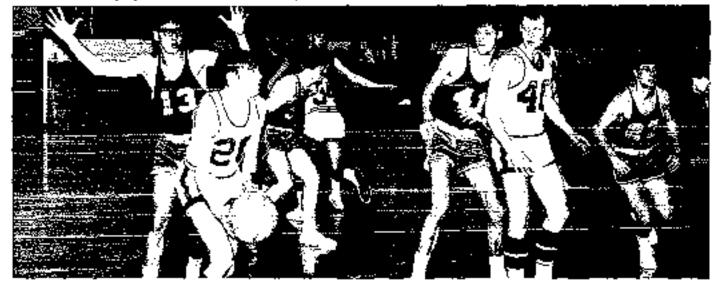
Kirkwood initiated an intercollogiste athletic program in the Spring of 1969, fielding teams at baseball and golf. Basketball was added to the program in the 1969-70 school year. The Kirkwood Eagles compete with teams from community and junior colleges in Iowa and hordering states as well as feedmen and junior variaty teams of 4 year institutions.

Kirkwood belongs to the Iowa Area Community College Athletic Association and the National Junior College Athletic Association, and participates in fournaments sponsored by these associations.

Social and Special Events

Activities are obordinated by the Student Affairs Office, the Student Congress and the Special Events committee. A program of social and special events is provided both by the college and in the local communities. These programs include music, art, drama, concerts, plays, function other events.

Use of any facilities by groups is degred through the Student Affects Office





axademic Information and regulations

CLASSIFICATION OF STUDENTS

Freshman	A student who has completed fewer than 42 quarter hours of credit.
Sopherace	A student who has completed 42 or more quarter hours of credit and less than 90 quarter hours of credit.
Mall Project	A student carrying 12 or more quarter bours of onligge work.
Part-Pitte:	A shullent carrying fewer than 12 quarter bours of ordeps work.

COURSE LOAD

Arts and Sciences Division

Endividuals pursuing 12 quarter hours or more during any quarter will be considered full-time students. To each a degree in six quarters students should plot to enroli for 15 quarter binuts or more each quarter.

Students may not carry more than 18 quarter hours of credit in any quarter without the approval of their advisor and the Director of Arts and Sciences.

Students may not take a course for more or less credit than frag assigned in the college catalog of the schedule of courses.

Vocational-Technical Division

A student in the Vecational-Technical Devision normally enrolls for the number of credit hours required in each program of studies. Refer to the section on vocation-technical programs of study in the latter part of this catalog for information contenting credits and/or course load. Part-time course work may be undertaken in some programs. Students with an interest or attending part-time in the vicational-lochnical division are advised to contact the Office of Admissions and Records for details.

UNIT OF CREDIT

A tent of credit is a quarter hour. A quarter hour of credit is normally given for one hour in class each week for a period of twelve, weeks. A little of credit availated in the adult high school is hased on the student's ability in relation to his achievement.

GRADING SYSTEM

The Kerkwood graftex or marks and their meanings are given below.

- A -- superior
- B -- above sverage
- C → average

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D below Everage

P = lating

- FW = failure assigned us a result of non-compliance with college drop policy.
 - W --withdrawal
 - N —ander
- N1 audit not completed responsibly
- P = passing mark in a pass-fail course
- incomplete (computed in nuck-point avorage as an "F").
- X original mark removed because of a repeat of the course

The officer of each mark in terms of credit and mark-pointaverage are charted below.

Grades A, B, C, D, F and J are included in computing the mark-point-average.

Credit toward graduation is granted for A, B, C, and D.

"P" and "R" marks carry stedut loward graduation only by authomization of the division director and/or department head.

REPEATING COURSES

Students who achieve a persnaully unsatisfactory mark year course may, according to proceduces described below, repéat the course as an attempt for a better grade and have the original mark removed from their record, du such cases, the original mark for the course is changed to "x²⁰.

Syndents wishing to take advantage of this pulsey must file a matirjeation with the Office of Admissions and Records within three weeks following their cognitation for the repeat of the course. Forms for this pulpose are available in that office.

Provisions of this policy are 2s follows:

- Students may repeat a course as many times as they wish in an effort for a better grade.
- Students must file notification of their repeat of a course for a better grade with the Office of Adressions and Records no larer than three weeks following their registration for the repeat of the course. Failure to do so within this time built will result in both the original as well as whatever repeat mark is cannod becoming a pornament part of the student's records.
- 3 The original mark will be changed automanically in an "X". (The "X" mark varies no credit not does a effect.

mark-point-weight) In the event a stadent does not do well in repeating the course, i.e. may not regard the original mark. In short, a student may not repeat a course and these capose the hetter of the two marks. The repeat mark is always the one that will be computed as part of his record.

- Students who withdraw from a course they are repeating for a better grade under this policy will have the original mark seemered on their record.
- The only marks that may be converted to "X" under this policy are the regular quality marks of the college: A, B, C, D, or F. All other marks that might be caused cannot be converted to "X" by mason of a repeat of the course under this policy.

This policy in no way prevents a student who so desires from repeating a course and retaining both the original and the repeat mark. This is the choice of the student and he indicates his choice of repeating for a better grade by the filling of netification of a repeat for a better grade as indicated in immber 2 above. Where no northeation is filed, the original and repeat grades are averaged, however, the student may not receive credit for the same course twice.

In any case, students who fail to successfully complete a required course most repeat the course optil a passing mark is achieved if they expect to graduate. Students are not required to repeat elective courses that they do not successfully complete

Students was have questions regarding how tais pulicy applies to their situation should discuss it with a member of the counseling stail.

Drop Policy

A student may drop a course and receive a mark of "W" up to the there-fourths point of a quarter or session. Specific fauldrop dates are given in the Student Hauthnoic and on the college Calcular. After these dates he must remain in the course. An official drop can only be made through the Office of Admissions and Records.

All "drops" must be "approved" by a counselor and the instructor of the coarse dropped and returned by the student to the Office of Adraiscons and Records before 5.00 p to of the tast designated drop day for the session.

Withdrawal Policy

A student may withdraw, that is, cancel has entire registration at any time up to the final examplement of a session. Soutents officially withdrawing through the Office of Admissions and Records will be assigned by instructors a "W" for all courses for which then registered. In all cases of withdrawal, except in cases of physical or incomptantial improvability, a student must secure the "approval" of a courselor and, circumstances permitting, the "approval" of a courselor and, circumstances permitting, the "approval" of vach restructor. In cases of tragedy (death, disability, etc.), the Office of Admissions and Records cha utilitate a withdrawal for the student, even retroactively when the stuation becomes known.

Students finding to withdraw officially, without "good cause" as outlined above, will receive an "FW" mark for all compared for the quarter. This will be regarded as an "F" and compared to grade point average and will remain part of the student's academic record. Students who present "good cause" for failure to comply with withdrawal policy may make an appeal through the Registrar. A faculty constituee may be convened to consider a deserving appeal and is empowered to convert "FW" to "W."



Incomplete Mark Policy

A student who fails to complete the assigned work of a course during a quarter or session will be assigned the mark "I" ("incomplete"). This mark is computed in the mark-point-overage as though it were an "F." fit is, increfore, to the advantage of the student to make-up the incomplete course work at the context possible time and receive a regular quality mark. The length of time is student will be permitted in which to complete course work at the sentest possible time and receive a regular quality mark. The length of time is student will be permitted in which to complete course work must be worked out with the instructor assigning the "I." The college advantation insposes no limit on the length of time permitted a student to make up an "incomplete." but leaves this determination entirely to the instructor of the appropriate department head.

AUDITING COURSES

Strulents may consider an Euler basis in any course with the permassion of the instructor. In such cases, standard lab and juition tees are payable. The statent's transcript will record, each such course as an audit normally carrying the mark of "N" which has no oredit associated with it not effect on the student's mark-point-average. Students enrolled on an analthasis in a course are expected to afford all class meetings and participate in all class work except examplements. Where the student does not fin this, the instructor may assign the mark of "NI" inducating that the student did not accomplish a perpresible and/t of the course.

ADDING CLASSES

Students may add courses only during the fact week of classes. Students wishing to do so should complete a "Change in Registration" form, available from a member of the courseling stuff, or the Office of Admissions and Records.

CHANGE OF MAJORS

Vocational-reclinical strategies who change their major or 22 area and sciences students who change to a major is the

Viaziforial Technica, Division will be accountable in terms of graduation requirements only for work itone in the new major. The outrise which and mark point-average parted in the annual major will continue as part of their transcript and record but will not affect them in meeting graduation requirements of the answ major. If course work successfully completed in the annual scaper is applicable to the new major, a student may perition the division director or the department head for permission to apply these creducts toward graduation requirements of the new major. Where permission is granted, the courses and the canced parters for the new major.

As a prerequisite to taking indeastage of this policy, students inust complete certain forms to the Office of Admissions and Records. This should be done to advance of making the change in majors.

Students who contemplate a change of major under this policy are advised as an antial step to discuss their plans splity with a member of the counseling staff.

Credit Assignment In Emergency Situations

Upon request of the student and after the two-thirds point of a quarter, a student may be given a grade and, therefore, credit for all courses he has in progress at the time of:

this addiction but not entistance), acto the Armed Forces, sorious personal on family dlaws requiring the student to discontinue his studies:

a death in the immediate family:

other "emergency eiseumstances" that preclude a student finishing the quarter.

DEFICIENCY NOTICES

At the conclusion of the sixth week of each quarter, students who are doing unsatisfactory work are notified by the college. Such notices are mailed to the student's bome address. Upon receipt of such concess the student's bond contact all instructors involved and arrange to see a counselor if appropriate.

SCHOLASTIC PROBATION AND SUSPENSION

Any student who does not achieve it least a 1.5 grade point average in a given quarter will be placed on probation for the following quarter. If, at the ond of the probation quarter, he has brought his total grade point average up to 1.5, he may be removed from probation for the following quarter, illowever, d the student's grade point is not 1.5 or higher after the probation quarter, his case will be reviewed by a facility committee for whatever action it deems necessary, including possible suspension.

RE-ADMISSION

Students who have been suspended for academic reasons may perition to the Office of Admessions and Records for waldnession. There is a mandatory period of one quarter before peritions for re-admission will be considered.

Students who have withdrawn from the college in good standing, and who degre to be re-admitted, should apply to the Office of Adatisation. If they have attended prother college or indeersity, they must file an official transcript from that institution. Students who are re-admitted after absence from the campus and who desire an associate degree will be required to fulfill the carrent graduation requirements,

ASSIGNMENTS AND EXAMINATIONS

Students are expected to complete all class assignments and examinations on time. It is the student's responsibility to contact his instructor to make up any work unissed during absence from each class. It cases where a test is given during the absence of a student, it is sometimes possible for the instructor to substitute another test at a later date. There may be occasions, however, when substitution of a test may not be iessible. When a student anticipates missing a test, a telephone call in advance to the instituctor may save a great deal of difficulty later and a possible lowering of the grade for that course in cases when a test is of a type difficult to make up.

A student must be present as scheduled for the final examinations, to cases of diffess or entergency during examina-

tion terios a student intry the excissed and re-scheduled by life instruction. In cases where such illiness or emergency may extend more than a few days, the geodedure for incomplete course work should be followed.

STUDENT CONDUCT AND DISCIPLINE

Enrollment of Kirkwisol carnes with it obligations in regard to conduct, not only inside but outside the classrooms, and students are expected to conduct themselves in such a non-meras to be a credit both to themselves and the college. They are responsible for adherence to the laws governing the computaity as well as to rates and regulations of the onlege and its officials.

Whenever a student or group of students fail to observe wither thy general standards of conduct us above stated or any



specific ones which may be adopted by the proper authorities, they shall be liable to disciplinary action by the college.

The responsibility for enforcement of these regulations costs with the Student Affairs Office.

GRADUATION REQUIREMENTS

Kirkwood Community College grants degrees, diplomas and certificates to those individuals who seccessfully complete programs in arts and sciences, adult obsearcost and vocationaltechnical ateas.

Arts and Sciences Division

Incoming Transfer of Credit

The Arts and Sciences Division will endep the credits given to a student who had done successful work at any properly accredited college provided that the work was part of the encoulant of a two year associate degree-equivalent to any of the associate degrees offered at Kirkwood. For a baccalabreate degree or was part of such a program even though the student himself, may have been involved as not-degree work at that institution, he order to review the Associate degrees granted by Arts and Sciences facility the student must also fulfill the requirements for those degrees as are listed in this cataloge

In the case of fulfilling the Associate of Arts or Sciences core requirements the Arts and Sciences departments concern ed will determine whether credits earned toward an Associate of Applied Sciences degree apply toward any of these requirements. The departments assolved will also detomate whether prerequisites for course sequences have been fulfilled by the stadent's prior work.

When a transfer student's credits are accepted toward the Associate degrees at Kirkwood, the College carrier guarantee how other colleges will treat these same credits.

General Requirements for the Associate in Arts or Science Degrass;

- hard a minimum of 90 quarter hours of credit;
- Farm the last 24 credit hours is residence at Kukwood in a degree program for which the degree is sought.
- Mantain a normanic curpolative gade point overage of 1.80.
- 4 Complete satisfactorily eight quarter hours in composition and three quarter hours in speech.

Additional flequirements for the Associate in Arts Degree:

24 1. Complete General Requirements indicated shows.

- Complete group requirements as follows: 3.
 - Elimonation 8 credit aports
 - [11] Soulal Sciences 8 credit hours.
 - III Math-Science 8 credit hours.
- Complete satisfactorily a onlyge parallel with major corphasis or the humanities autility social sciences.

Additional Requirements for the Associate in Science Degree:

- Complete General Requirements listed above;
- Complete group requirements as follows: 3.
 - Humanities Scredit hours
 - II Social Sciences S credit liques
 - HI Math-Science 30 credit nours

¹Definition of proop sequralements include: Example 1 Homanities: laterditation to futeratore, Masterpreces of the World Ultratore, laterditation to Finalter Act Approximation, Music Appreciation, French, Spanish, German, History of Westerp Givilotation,² U.S. History,²

Group II Social Sciences: History of Western Civilization,2 G.S. Bistory,7 American Public Education, Political Science, Socializy, Economics, Psychology, Human Geography,2

Group III Math-Science: Mathematics (fore; modiate Algebra or Higher), Riclegy, Zoology, Microbiology, Abaromy and Physiology, Chemistry, Physical Science, Physics.

²May be included in either Group I or Group II, but numm hold,

Vocational-Technical Division

Requirements for Associate

in Applied Science Degree:

This degree is assert in those individuals who satisfactorily complete a two-year technical corriobhum. Since technical programs vary at lengts of their content, each program should be checked for specific course requirements for gradination.

General Requirements for the Associate in Applied Science Degree common to all programs are as follows:

- Successful completions of all specific curricular pointse recurrements.
- Maintain a minimum cumulative grade growt average of 1.50.

- Sutisfaction of the greater of the following two residence requirements:
 - a. Itam a maximum of the last 24 credit hours in no less than two quarters of resident course work at Kirkwood Community College in the program for which the degree is sought:
 - b. Mont: through residence course work at Kirkwood Community College, the minimal core and specially course requirements established by the major department for the degree program.

(In some cases, some credits earned toward an Associate in Applied Science degree may be transferable to some bacculanreare degree-(panting institutions).

Requirements for a Uptoina in Vocational or Technical Education:

Diplomas are issued to individuals who satisfactorily complete full-time vocational or technical curricule of at 'east three quarters but less than two years (six quarters) duration. They must maintain a cumulative grade point average of (-60) Practical durating students must maintain an average of (-20).

Normally, a student must take all of the contrast required for a diploma program through course work in residence at Kirkwood. Individual exceptions to this requirement may be possible upon petition by the student to a committee composed of the program coordinator and/or the department bead and the Director of the Vocational-Technical Divestort.

Requirements for a Certificate:

A certificate of completion is issued to signify that a student has substantonily completed a program of instruction other than these listed above. Certificates are generally asked to soldents at the completion of a specific situri-term program of study.

A student must complete all of the courses required in a certificate program in residence at Kirkwood Community. Unlegs

Requirements For The Adult High School Diploma:

- A Kirkwood High School diploma will be granted when the student meets the requirements toward graduation.
- The High School Completion Program is instrated on the quarter system (12 weeks). The students will have 36 hours of classroom instruction per quarter.
- The stadent must earn a minimum of 48 quarter hours of credat.
- Six quarter credits, in residence at Kirkwood Community College, are required in the High School Completion Program regardless of the number of remaining condity needed.
- 5 A student doing normal work may care 1 credit for 12 weeks' work with grades A, B, C, and D, Daw to a great deal of individualized instruction, students pay earn 2 credits in this 12-week period if the instructor feels they have achieved much more than normally achieved in that length of time. No one fails.
- 6. Credit awarded for military school, vocational training, and work experience are evaluated by the enumedor hefore credit will be given. Any questions regarding credits of grades are considered by the counselor of atea supervisor.
- 7 A High School Equivalency Cortificate will not be given until an applicant has reached his 18th buthday and as high school class is one year out of high school.
- 8. The connector or coordinator in each high setupol completion center will make out a rough work-up sheet showing credits already earned and those that will be required for graduation. Also, a new student must fill out a No. 283 form. This form will criticate a process by which a copy of the student's previous high school work will be returned to the connector.

Requirements For The Iowa High School Equivalency Certificate:

The lowa High School Equivalency Certificate is granted on the basis of the attainment of an average standard source of antloss than 45 with no part score of less than 40 on the General Education Development (G.F.D.) Test. The test is administered through the lowa City Adelt Education Center, at the Anamess Reformatory, and daily on the Kirkwood mancampus

A regular high school dip onto issued by Kirkwood Contrurity College is awarded and a permanent transcript file is maintained by the college. Local school districts may issue an adult high school diploma of they choose. Conditions for granting the local adult high school diploma will be specified by the local Board of Education.

Information is available through the Kriswood Community College Adult Education Division.

Graduation Application

.'n

Each student in the Vocational-Technical and Arts and Sciences Divisions who plan to cash an associate degree, diploma or certificate of program completion, must file a "graduation application," with the Student Services Office at the beginning of the quarter in which he plans to complete his course work.

A student will be considered a prospective catdidate for graduation only upon completing the "graduation application" form and fring it with the Student Personnel Services Office.

"Gradiation applications" should be submitted at the time that students register for classes of the quarter or which requirements for graduation will be completed. However, applications will be accepted if filed with the Student Services Office in Lunp Hall within one week of the close of registration

While a student may complete his requirements for graduation during any quarter, commencement exercises will be held only to May and August. Students completing requirements in November to March are encouraged to participate in the May commencement exercises.

High School Commencement Exercises are scheduled every six months.

Graduation and Academic Honors

Graduates who have maintained a 3.0 grade point average duting their work at Karkwood are granted recognition by inclusion or their names on the list of those who have graduated with honors. Graduates who have maintained a 3.5 or better grade point average are given to organition by inclusion of their names on the list of those who have graduated with high honors. Grades which are accepted by Kirkwood as transfer credit from other institutions are also included in the omaputation of grade point averages for these kinners. A notation will be node on the transcript or each graduate when either of these honors has been earned. At the end of each quarter academic progration is given to surdents enrolled fuel those who earn 3 traverage or better.

Requests for Transcripts

A transcript of work taken at Kirkwood is (gened upon written request by the student to the Office of Autoissions and Records. Forms for this purpose are available in that office. The first transcript request is issued tree of charge; a fee of \$1.000 strequired for each additional copy.

Waiver of Regulations

Rules and regulations in this catalog have been adopted by the faculty, administration and floatd of Directors of the college and are subject to modification and revision by them. If a student feels that extendating circumstances might justify the waver of a particular college cognitions, he may the a petition with the Director of Student Services, seconding to established procedures.

Student Responsibility for Catalog Information

Each student is responsible for knowledge of information appearing in this catalog, building to read the regulations will not be considered an excuse for non-compliance.

The college reserves the right to change policies of devise curricula as necessary due to unanticipated circumstances.



programs of study

ARTS AND SCIENCES PROGRAMS

The Arts and Sciences Division offers made types of programs, college parallel-transfer, college parallel-corect, and developmental.

College Parallel-Transfer

Students widory to transfer can elect an emphasis of any of the futtowing, liberal arts, basiness, pre-dontistry, pro-medience, pre-voterinary medicine, pre-transing, pre-pharmacy, precomputer science, pro-engineering, pro-law, or pre-teacher education. Individuoils ancertain of their ultimate goals may protect to elect a general education emphasis. As a guide for students, courses neconancended for each emphasis are listed below. However, students should check the college or university to which they plan to transfer for specific requirements, as these requirements may very somewhat among justifications.

Liberal Arts Language Requirements

Foreign language requirements differ on the various fouryear institutions. In general, a bachelor of arts degree requires two years of topogo language, and a bachelor of science degree requires one year of foreign language study. Credit or foreign languages will apply toward the humanities requirements of the four year institution.

General Education (Associate of Arts)

Polisi Yeaz Compositis of L. H. Sprech I. Mathematics Solitoce History of Poreign Listory of Poreign Listory of Poreign	8 3 5 27 12	Stenadi Yeyi Latratuce Sohiti Scennes Mautoves*	
Electres*	4		

Liberal Acts (Associate of Acts)

First Year		Second Year	
Composition 1.11	× 1	Hensign Conguege	4
Speech I	,	Second Sciences	12
Foreign Language	12	Electives"	21
MatheShiends	12		
Electorys"	11		

Business (Associate of Arrs)

Abest From		Second Year	
Composition 1, 14	:	Eneratine	12
Speech I)	Principles of Accounting	
Magnetics	- 5	1, 11, 11 r	ч
Science	8-12	Production to Reduces	4
History of Pige Arts	9412	Interfactor table of \$ justicities	4
Perinciples of beginning as		Lk ctives?	36
1.11,111	9		

Pre Chiropraetie (Associate of Science)

First Your		Second Vene	
Composition 1, II	8	Organic Chemistry I, II, III	12
Speech I	1	Physical Science	4
General & Inorganic Chemus	stry	Psychology	6
J. 11, 33J	11	Secial Sciencos	32
General Diology I, II, III	12	Lesonia	8
Mothematics	5	Electores*	3
Electives"	4		

Pre-Demiistry, Pre-Modicine, Pre-Voterinary Medicine (Associate of Science)

First Year		Second Year	
Composition J. H	8	Organic Chemistry I, H, EI	12
Speech I	3	General Physics I, 11, 111	12
General Diplogy 1. II, 111	12	Literature	5
General & Inuegance Chemis	str):	Social Sciences	- 8
1, 20, 111	12	Electives"	3
Mathematics	10		

Pre-Narsing

(Associate of Science)

Kirkwood Community College and the College of Nursing at the University of Iowa are working together to establish a program wherein students wishing to major in musing can take the first two years of the fear year baccalaureate degree program at Kirkwood. At the present time, the first year may be taken at Kirkwood, the second year should become available with the fall term of 1972. Students wishing to complete the baccalaureate degree nursing program at the University of Iowa are advised to take the following courses at Kirkwood Community College.

Phore Year	
Comprisition 1, II	2
Spends J	1
Magice matters (not meeting)	
General & Intergence Chemos	ny –
1 11	1
Organy & Bin-Chemistry	4
Socialogy I	
General Psychology	2
History is Lipe Arts	- 22

12 12 21

Pre-Pharmacy

First Year		Students wishing to take a
Composition 1, FI	я	second year or Sirkward should
General Physics (or		contract the conselling office for
Ðiojogy J, ((, 113)	12	Parahestic francis (Source)
General & Incogorsio Close	nistry	
L, II, LIN	- 12	
Mathematics	10	

Pre-Engineering

Many students should take a scould year at Kirkwood, especially if they on not complete the calculus sequence during the first year. They should consult the catalog of the university to which they intend to transfer to determine the courses recompresided for the second year.

First Year	
Co-opsisterio 1, 11	- 8
Speech I	3
Calcolos 3, 11, LEC	- 23
Physics or Chemistry	12
Engineering Graphics I, 11	- 5
Engineering Problems	2

Pre Computer Science (Associate of Science)

Forst Your		Success Success	
Comparation I, II	я	Speech 1	ι.
Calculos 5, 11, 544	39	Inflerential Papations	5
General Physics 1, 36, 111	22	Services	17
Subjet Sciences	3	Engineering Graphics I	5
Computer Organization and		Computer Organizations and	
Programming 1	- 1	Programming II	
		Heinschittes	8
		L'ectives"	12

"Bischers may be selected how science, mothematics, humanities, history, the social withdress and business. Convess within each of these areas are listed below. The cheste of electives will depend on intended unifor in a basis alarments depice program.

Math-Science

Biological sciences, Connecticy, Mathematics, physics, Remanifation

Pre-Law

Students intending to earoll in a college of law should indertake a browl educational program. No particular area of study is necessarily more appropriate than another. If in doubt, students nuglatemost in a liberal arts curriculum similar to the one mentioned above. Students should be sware that some colleges of law sequire a baccalcumate degree as a condition of admission, while others only require three years of college prior to admission.

Pre-Teacher Education

Students withing to prepare themselves for teaching should devote most of their pointse work duting the first two years of college to a general education or Fberal arts type curricula identified on preceding pages. Included in the program should be the following.

3n.98	American Public Education	·I
0589	General Psychology	-1
3024	Psychology of Usuid Development	·I

Elementary education majors should also include:

D072 Children's Life-annie 4

College Parallel-Career

Soveral onlinge patallel-categor programs are available to students. Persons who wish to study for two years in college parallel courses, but who also want to develop occupational skills suitable for entployment immediately upon completion of the two years, may fluid the categoriented programs especially attractive. Credits earned in these programs may be applied towards a baccalegenetic degree program.

Rusiners

Accounting, bosinew law, marketing, office education,

Art, history, foreign hanguages, literature, music, theater, -History-Sociel Sciences

Feederates, acography, nistory, law/law enforcement, political secence, psychology, so, iology

Law Enforcement (Associate of Arts)

The Law Enforcement program is designed for persons wishing to prepare for a career in law enforcement and for persons should engaged in law enforcement who wish to opgrade their present skills and scoure advancement in their professional careers. The program is offered in cooperating with the University of lows and convests of six twolveweek quarters. Ewe of the six quarters are provided by Kickwood Communary Codege: the saxth quarter is taken during the summer session between the freshman and sophoniore years at the University of lowa.

Courses offered are college ovel and provide up to the first two years of a four-year college program. The specialized courses in law enforcement are applicable to a major in the field of sociology of soveral colleges and universities. Students may could on either a part-time or full-time basis.

First Fee	77				
FALL			5020	UER AND TO SHE WE ARE A	
0532-1	Composition I	4		Craininal Investigation	`4.S
	Mathematics	5		Fattol Procedures	4.5
ORLS	Sociology 1	4		Traffic Contsol	4.5
0523-1	Entender tion, to Ja	· •	L 5.2 K	Criminulogy	4.5
	Enforce mont	2			-1.º
	Electores*	2-3	Second 1	(ear	
			FALL		
WINTER	1			H or antices	4
9631-1	Composition II	4		A norigen frederal	
	Physical Sciences	÷		Liewernment	4
0903	Sacialog, IL	4	0082-2	Othernal Iwadence	-
0834-3	Creminal Law 1	4	0234	Delogive Tatrics	7
		•		Electives	5
					,
SPRING			WINTER		
0328	Speech I	3		Haters git is a	4
6589	General Bycholog	-		Stare & Local	-
4142111	Crimina, Law It	4		Government	4
		7-5	0131-2	Adm, of Tastice	4
			0952-2	First Aid	1
			V	Plactwes*	2.0
					÷.,

Library Services

The Library Services program at Kirkwood Community College is a terminal program designed to prepare qualified students for para-professional work in all types of libraries. 30 Persons who wish to work in Libraries, but who do not wont m complete the five years of collegiate work normally required of librarians, will find this program particularly appealing.

The purpose of this program is to propage brilloidbals to work with professional fibracians at ordering and processing books and inaterials for the shelves, typing cards for the catalog, checking and preparing periodical materials, keeping files and shelves up to date, and working at the creatation desk. It also familiarizes students with sud-o-visual operations and procedures.

Theory and practice are integrated through a series of intenships in lineary settings in order to assure the competency of students in making practical applications of techniques learned in classroom dirations.

The Library Services program combines occupationally oriented courses in J (brary Services with college-parallel oriented courses in the Arts and Sciences areas. Approximately eighty provent of the program is drawn from courses which normally provide credits transferable to other colleges and universities. However, the Library Services courses theraselves are not expected to apply toward baccishareate degrees in Library Science. Completion of the two year curricolumn leads to an Associate of Arts Degree,

First You	r		Necona 1	'Ave	
FALL			FA11		
0937-1	Composition I	4	04 (0.2	Literature	4
0261	Typing I	3	(1146	Records Management	÷.
0520	Intraduction to	4	02.24	Office Machines	ż
	Bukiness	3	0925-2	Library Procedure	ï
0918-1	Introduction to Use	в.	*	,	×.
	of the Jabrary	3,	r		
	#dectives*	4			
WINLER			WINTER		
0621.1	Comparating II	·I	0524-2	Luczofii (2	
4063 E	Typing 11	i	06871	Infradaction to Data	-
0791	LONGARNE	j.		Processing	3
0647	Principles of	-	0#91-2	Junisely Literature	3 3
	Astronoticel	2		Electives	ŝ
DSB4 [3]	Tender pail Processes				•
	Flootives"	4			
SPRING			SPRING		
0358	Speech 1	i	0353-2	American Federal	4
0456	Typing 111	ţ.		Gevernment	4
108 59	General Psychatopy	4	08.27	Art Appreciation	4
(174.1+1	Library Rootines	2	1067-3	Justraction In	-
	Florivest	4		Félocational Madia	_, ∨
				Monthly ?	4

Teacher Assnaute

The position of teacher associate is a tecent address to the educations, field although there are longstanding counterparts in other fields, e.g., the engineering technician or undustry, the medical laboratory technician in height and the data process, ing technician in heights.

The reacher associate, like his colleagues in other areas, works with the more highly trained teacher of holping students learn. He may relieve the teacher of many interation dates which do not require the level of skill and training winch permits with eacherists and masters degrees generally possess. These duties are varied, but can be grouped into three hopad categories, gipervision of students, reinforcement of learning activities and proparation and operation of endowiseal moterials and equipments.

Kirkwood Community College believes that reaches associates are best propared through study in the humanities, social sciences, natural sciences and communications. It also believes that the proparation program should include specialized study in psychology, human growth and development and education, and should columning in supervised work experience in a school setting.

An outline of the program follows [1] is displaced into two major levels, Level 1 is for the elementary prodes and Level II is subdivided into three areas in emphased English languages, social sciences and manusaction. Surcessful completion of the program requires a minimum cumulative grade point average of LSC and a total anterp quarter heurs of credit. An associate degree in arts and sciences is availed upon completion of the program.

General Requirements for the Associate Degree

Courses	Coal IV
hingh & Composition 1, 9	2
Secoch (ι.
 Humanities, e.g., Elecature, history, arr, master 	
theater, foreign languages	× .
Sound statemers or history	5
Math and/or science	5

Specific Requirements for Teacher Associates - Levels 1 and 1]

	Course	Creatity
0598	American Public Education	4
0689	General Psychology	4
0024	Psychology of Child Development	4
1041	Educational Psychology	4
:337	Practicum for Teacher Associates	4
0864	Effective Study and Reading	2
Offen-1	Introduction to Uses of a Library	2
1067	Instruction in Educational Media	1
0377	Typing I	3



Recommended for Level 1

	Couzses	Credits
0075-2	Children's Literators	4
0827	Art Approxime	3
0596	Mose Appreciation	ч
	Additional electives financing additional convex mart and crusic)	13

Recommended for Level II (English-Jungsage).

Courses	Credity
ხლიფი სიუკიკვი	17 - 21
Additional steenway e.g. http://ure.	11- 3
ppt, must, the ter	

Recommended for Level II (Social Sciences)

Courses	Codity
Social Science, sequence or y , political science, sociology, economics, geography, las enforcement, history	5
Additional electives, e.g. literature, still masse, theorem, history is coal withouts, mathing stilling	15

Recommended for Level II (Mata-Science)

Courses	Credito
Math and science (in addition to A.A.	2.5
requirements.	

Developmental

A developmental program is available for students whereare in need of additional study before they embark on a full-fledged college parallel or incorpational program. This program holps students to: (1) develop learning skills necessary for success in more advanced educational programs, and (2) extend their understanding and awareness of themselves and their physical and social environments. Opportunities are provided to increase skills in reading, writing, speaking, studying and mathematics. Through study in the social and biological sciences, students are provided with opportunities to become before informed about themselves and their environments, especially at the community level. Specific developmental Jourses are identified in the course description section of the catalog.



ARTS AND SCIENCES COURSE INDEX

The following serves us an index of all coarses offered in the Arts and Sciences Division, along with the appropriate numbers for each course. Students should refer to the Program of Study section to learn the year in which courses should be taken.

*Will not be affored before 1971

ACCOUNTING

0647	Principles of Accounting 2
8737	Principles of Accounting 31
(08/51	Principles of Accounting (B
4778	Intermediate Accounting I
0329	Intermediate Accounting 31
0526	Kementary Cost Accounting 1
0116	Cosmentary Cost Accounting II

0426-2 Income Tax Accounting

ADMINISTRATION AND MANAGEMENT

0520	 Introduction to Business 	í
4411	Ib. to a start of the second	

0413 Principles of Finance

ART

0827	Art Appreciation
0915	Are History 1
0078	Art Illdo-y IL
6174	Art History III
0317 -	Fundamentals of Diancog I
14119	inandyaterstals of Drawing II
0330	Fundering of Drawing III
0496	Fundamentals or Design I
6590	Fundamentals of Design 15
1262	Fundamentols or Design III
6316	Fundamentals of Psori og B
6110	Fundamentols of Peneting 11
1203	Functionentials of Photomog RJ
8600	Fundativentals of Cerentiny I
07 M 👘	Fundamentals of Censurity G
1261	Fundamentals of Ceromics Eff
:075	*P independences of Photography 1
807.1	Mandamentals of Photopuplic II
710	Mundamentals of Photophyles (0)
1066	Prindamentals of Peraty and Composition I
104	An order open and the second of the second second

1204 Insudamentals of Patary and Composition II

1209	Fundamentals of Points and Composition 111		
1073	throughnes tals of Lettering		
1070	"Fondamentals of Soniptore 1	3687	
1205	* Fondamentals of Bonfptore 15	3936	
1206	"Paudaner: tax of Soniptory 10	0256	
3000	Sundamentals of Lettering	0893	
032.9	Eurolumentals of Educating 1		
0400	Fundamentals of Palaning II	llinsié	
1203	Sendo mentals of Palating UL	6164	
	NOLOGICAL CONTRACTS	0252	

BIOLOGICAL SCIENCES

8702	Cirporal Brology 7
0794	General Rology 11
(15.82	General Statogy SD
3050	"Geperal Roty by 1
0141	 General Hotocty 11
3852	Human Analysisy and Physiology U
30.44	Suman Anatomy and Physiology II
1275	"Butuse Anziomy and Physiology 57
1301	'invertubtate Zoology
1320	"Survey of Vertobiates
1514	*Metalkology 1
	Contract of the second P

Microbiology U

CHEMISTRY

0329	Survey of Chemistry 1
(44) 8	Survey of Chemistry II
0238	Survey of Chemistry III
0709	Generic and Inorganic Chemistry 1
0795	Consist and Inorganic Chemistry (I)
08384	 Demoral and Inorganic Chemistry 10.
0366.7	Organic Chamistry I
0457	Organic Chemistry 31
315.51	Organic Chemistry 151
(1993)	*Quantitive Analysis

COMMUNICATION

039 5	Review hoghthy offere
0045	Reading Laboratory
0054	Effective Rending and Study
0.266	Writing Laboratory
0333	Composition 1A
13444	Composition IB
0517	Compositive 1
0631	Liempession II
1,213	Introduction in Constitution
0.812	Josephism, Lab
0796	Internetdiale Ceratoschon
1296	Critical Reading

DATA PROCESSING

- Introduction to Data Processing Introduction to Computer 5 & Programming
- Business Application of Data Processing Introduction to Computer Organization &
- Programming
- Co-option Organization & Programming I Computer Organization & Programming II
- Componer Programming

DRAMA

- 0151 Introduction to C.#Thester
- 1436 Thester Workshop

ECONOMICS

- 8751 Reonophics L
- 0862 Econor i. «4 0029 Economics III
- 6544 The American Teoronty
- 1277 Basiness Feenomies ! Besiness Boogomies II
- 1901 Independent Study in the Social Solonies

FOREIGN LANGUAGES

0757	Florientas, Roenshill
J859	biomentus, Found- U
0027	Elomentary Showh [5]
6142	Intermediate French 1
3232	Indermediate French U
119.52	Internetistic French III
8676	Memoriary Spyrish L
0768	Elementary Spanish II
1860	Elementary Spanish III
0053	Intermediate Spanish I
0149	Intermediate Spatish II
3233	Intermodatie Spanish III
0578	"Former lary Gerauan 1
30.75	"Estimate of the proof of the
376.9	Attementary German III
1313	Eterch Gy I
141.7	French Co. II
1411	French Cy III
1501	"Horotany Civil
1.405	"Histogane Call
1,5110	"Bisounie Chy III

GEOGRAPHY

(145.3	Physical Geography
0440	Human Geography

GRAPHICS

0805	Impirvoting Grephsik I
0895	Sugirated up Graphics D

HISTORY

6915		Western Civilization 1
0051	-	Western Cichtraston II
0176		Western Civilication III
0211		Philted States Biology 1
0303		United States History II
0.191		United States History III
1515		II. ack H. story
1504		Interproduct Study in the Securi Sciences

LAW/LAW ENFORCEMENT/Corrections

0597	Businets flaw [
()::94	Buskes Law C
0515	f firraducioni (a Law Ludoraemen)
118,311	Commit Land
0520	Cronosal Lew S
0632	Control footence
0131	Administration of Costles
1377	Introduction to Corrections
1112	Protomana Papole and Paratans
1516	Carvesto aal Associes La cos Community
1513	 Psinciples of Conjection Management and Supervision

LIBRARY SERVICES

0514	detroduction to the Crestof Ste Dhistof.
10.11.14	The second

- 0721
- 0004
- Information for the second sec 0925
- 0391
- 34 Instruction in Educational Media 1.867

LITERATURE

ay 22	American Arts I
94.82	for aduation to furgational
05.24	Introduction to Turerarche II
06.9	Introduction to Life-aluse III
0663	Masterpieces of World Diference 1
0287	Missiezojozes of World Literature II
(1845	Masterpiezes of World Effersive Id-
01675	Children 's 4 denoture

MARKETING

0657	Principles of Marketing
()975	Principles of Retailing
0925	Principles of Solitong

Principles of Selfing

MATHEMATICS

0563	Englacyjag Problems
14.)4	Internendials Algebra (A
143×	fittenmelage Algebra 3B
0572	College Algebra
0640	Trigenometry
0706	Analy up Geamerry
8753	Calcoius I
0866	Calculus II
0012	Calculus III
0182	Differential Ligenuoss
0674	Fundamentals of Statistics

(14-3) Modern College Mathematics

MUSIC

06 ≁ 5	Kusa Appreciation
din fi L	Furtherers and Damong f
0853	bundringering signer Harmonik II
02412	Pandamentals and Remaining 713
3103	Pur Training & Sight Surging C
0204	For The mag ≤ Sight Surgary J
azə6 –	Phy Friends & Sidhi Seigley 15.
0405	Advanted Harmony, his Training I
3492	Advicted classifiery, East Francise &
0353	Advasced Harmonic Inc. 11, along 291
0727	Applied Victor Victor I
382.9	Applied Music Vocal I.
8384	Opting Maxin Vocat III
.0.22	Applied Music Woodally V



Beass, strings to chestra), woodwinds,

percussion, piano, organ Applied Mean Keyboard I Applied Mean Keyboard II

Applied Music Keyboard III

Applied Music Reyboard IV

Pundamentais of Music

Chora: Techniques Instrumental Titabiliques

PHILOSOPHY/RELIGION

Introduction to Philosophy. Introl clubs to Religion.

PHYSICS/ASTRONOMY

Physical Science (Astronomy) Physics? Sciences (Physics) College Physics I College Physics I D260 Coffiger Physics 21 nstia General Physical General Physics II 9650 General Physics LEE

POLITICAL SCIENCE

- American Society: Community Politics
- 0063 0353 Amore as Federal Government
- Spije & Local Government. 4445
- West Pointes 6539
- 2501 Independent Study in the Social Sciences

PSYCHOLOGY AND EDUCATION

0589	General Psychology
1024	Psychology of Child Development
0695	American Poblic Education
1007	Practs op fro Teacher Associate
1345	Psychology of Adjustment
1501	Endependent Study in the Social Sciences
1541	 Educational Psychology and Measurement

SAFETY

0552-0 First Aul

SCIENCE

1208	Integrated Science i
1312	Interpreted Science II

35

OFFICE EDUCATION

College Shorthand I 6171 0362 Coffege Shorthand D tholloge Shorthand III. 0546 College Shorthand Loossemption 0914 College Shorth and V College Typing I 0172 0077 0174 Callege Syprog D

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Conducting

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College Typing BL 41,852 Office Marblans

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- Secretorial Proceduces 0435

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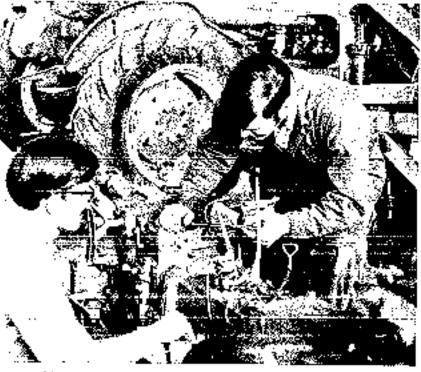
SOCIOLOGY

Agriculture

- American Society: Community Organization 0900 American Society: Community Professor
- 090.3 American Society: Community Problems 0183 American Society: Minority Group Relations
- 8165 Introduction to Secology
- (1254 Secial Problems
- 0455 Marriage and the Equily
- 1528 Criminelapy
- 1101 Infordaction to Cultural Authropology
- 1501 Jodependent Study in the Social Sciences

SPEECH

005× Speech I 0451 Speech II



- 36

AGRICULTURE MECHANICS

The Agriculture Meditatios program is designed to prepare individuals for entry employment as specialized machinety mechanics, farm service representatives, parts men, farm machinery salesment or supervisors.

During the first year of the program, students receive instruction in basic core competencies and are qualified as set up specialists. They may continue a second year and concentrate in one of two other specialist options: Mechanic or Part Room Sales and Service. Both programs lead, upon completion of seven quarters, to an Associate in Applied Science degree.

First Year - (Core Competencies) Set-Up (Assembly and Handling) Specialist

First Q	warter		Clocx Hotor
		Öreili	nom
0523	Itasa, Mathematics U(Math))	56
0540	Agrico, Carel Squipment Princaples 1 (Offlaget (Meela)	h	1.59
65.40	Applied Electricity I (Elect.)	÷	77
1084	Gas Engines F (Mach.)	t	72 77
30±1	Agassifue Survey (Ap.)	2	94
1061	Sentimar (Ag.)	-	. 4
Second	Quarter		
1394	Descurrent Agriculture Mathematics (Mathe	3	16
0633	Agricultured Equipment Principles II	 6	10
	Uplatting) Montul		156
3634	Applied Matricity II (Fleet.)	4	22
()480	Reconditioning and Repair (Mech.)	5	56
1081	Svicinar (Ap.)		
Firsd Q	hav tiv		
0637	Continuerstation Skills (Comm.)	3	36
05930	Codenical Agrications I (Ag.)	÷	72
0725	Agroational Equipment Principles [1]	6	1.55
	(barsystrag) (Mech.)	"	1.99
:1253	Special Projects $(A_{f_{n}})$	+	641
80.05	Psychology of Heinzh Relations 1 (Psys)())	45
1051	Syminar (Ag,)		•

Fourt	Quarter		
1379	Business Provinces (Admin.)	3	26
0695	Costomer Interpretation (Mkrg.)	5	30
0127	Fund cyment Experience (Ap.)	10	480
0258	Special Project (Ag.)	2	.29
1061	Sondros (Ap.)		

Daird Quarter

60

60

511

60

1027	Cent Diagnosis and Overhao2 (Meeles)	s	130
0719	Construction Skills II (Comm.)	3	36
0890	Fedmit/J Agricoffers II (Ag.))	60
1093	Prentory Constol (Admen)	4	84
1051	Sourna (Ag.)		

ORNAMENTAL HORTICULTURE

Second Year - Mechanics (Specialist)

(b)34	Basic Hydrathes (Stycht)		60
0.085	Gasoline Disgnosivarid Overhald (Mecha)	li	120
1904	Power Transfer System 1 (Mr.J.)	3	- ú0
0342	Trightes & Systems (Mucha)	h	129
14065	Semanar (Ay.)		

Second Quarter

0672	Applied Hydroulies (Merch.)	3	60
10065	Prower Transfer Systems II (Alech.)	3	60
1/19/0	(Fesel Diagnosis and Overhead (Merlu)	8	1 A O
1091	Intplate on Dischess Fact Least (Advairt.)	4	60
1061	Sociator (Ag.)		

Third Quarter

.

0153	Prover Transfer Systems III (Medic)	3	60
1092	Carr Drighaus and Overhaul (Mc. h.)	3	1.90
0228	Advanced (lydiaulius (35tch.)	ļ	60
D890	fechnical Agriculture II (Ag.)	;	60
13061	Semuca- (Ag.)		

Parts Room Sales and Service [Specialist]

First Quarter 0874 Rest: Hydraulics (Mech.) 3 1085 Gasolina Dugoosis and Oreitizul (Meenin 1.20 б. 6984 Power Transfer Systems (Mach.) 3 0.14.5 Requires and Systems (Mrob.) 6 :20 1.060 Seminar (Ap.) Second Quarter 1090 LHO Dirsel Diagoosis and Ovurhaol (Meelu) 3 1091 Employeest Business Freed Sins (Adented) 4 0647 Principles of Accounting U(Accigit) 3

1961 0782 Servicus (Ag.) Fundationnals of Salesmanknip (Miktel)

The Orhanicatal Horncalitate program is a two-year progrant, leading to an Associate in Applied Science degree, designed to propare individuals for employment as conservationists, insect control specialists, nurserymen, and water and wildlife officers.

During the first year of the program, students repeive instruction in basic tore competencies. During the second year, they may specialize in one of three career options: Landscape-Nursery-Cerden Centor, Lawn and Furf, and Park-Recreation-Natural Resources.

First Year - (Core Competencies)

ADST Que	rier	Credit	Ovick Hours
(0:41	Agriculture Survey (Ag.)	2	36
11586	Soil Properties (Ap.)	3	42
0770	Plant Propagation Presidices I (Ag.)	3	72
1085	Plant Materials 1 (Ag.)	-1	96
0023	Basic Mathematics (100 gfr.)	i	36
1092	Landscope Drowing (Ag.)	3	72
1.61	Sentinot (Ap.)		
Second Q	Juaryny		
0525	Rookkerbing (Acctrg.)	2	26
0864	Plans Propagation Practices II (Ag.)		72
Q9.81	Solall Frights and Equipment (Mechi)	3	72
5094	Landsoupe Design L (Ag.)	3	92
(0537)	Communication Skills I (Corne.)	3	3.5
1095	Plont 50/tenals (F(Ag.)	4	72
1061	Semirau (Ag.)		
Third Qu	272PF		
0122	Employment Experience (Ag.)	6	300
1006	Enternology (Bio2.)		24
0282	Fundamentals of Salesmenshoo I (Mk(z.)	2	24
1097	Landscape Construction (Ap.)	2	44
u302	Psychology of Lineana Rylations (Psych.)	223	56
1008	Plant Aluterials Hill (Ag.)	3	48
1061	Seminar (Ag.)		

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Fourth Quarter

35

Prophymeral Experience for second year students (Ag.)

Second Year - Landscape-Nursery-Garden Center

First Q_0	gel, r		
0647	Principles of Accounting 1 (Ac etg.)	3	36
6719	Communication Skills (Commu	33333	48
1099	Soil and Water Mechanics (Ag.)	3	84
:100	Rerbaccous Plant Mutorials (Ag.)	3	72
11IÚ	Landstupe Device II (Ag.)	3	84
0892	Supervisory Development (Admin.)	3	36
1061	Seminal (Ag.)		
Second	(hanler		
040.38	Past Propagation Practices Lil (Ag.)	4	96
0774	Office Machines (Off. Ed.)	3	- 36
1111	Anatomy of Sord Plants (Buol.)	3 1 2 3	- 96
1103	State and Locar Government (Poli, Sci.)	2	24
1105	Plant and Insec! Chemicals (Ag.)	3	- 72
6591	Puisdametrials of Refailing (Mkig.)	Ĵ.	36
1061	Seminar (Ag.)	3	36
$p_{0M} g$	uarsor		
9258	Special Project (Ag.)	3 3	54
105774	Boas Hydrophics (Ma. 6.)	3	36
1057	Business Organization and Alexagement (Admin.)		36
1117	Cartainer Grewing of Nusery Mose (Aga		
0132	Employment Experience (Ag.)	ĥ	*00
1061	Semmar (Ap.)	•	
Lewite	nd Turf		
Firn Qu	erter		
1647	Principles of Accounting I (Accig.)	1	36
1719	Communication Skills II (Comm.)	11111	48
1099	Soil and Water Muchanics (Mech.)	3	94
1100	Torfgrass Marchice (Ag.)	3	72
1101	Geounds Maintenance (Ag.)	3	ñ4
0597	Supervisory Development (Admin.)	1	36
Second	Quarter		
1102	Horticoltural legitgeneri'i 1483	3	60
0724	Office Mashines (OU, Ed.)	1121	36
1103	State and Eucal Government (Pob. Sci.)	2	24
1104	Tarfgrass Management (Ag.)	3	22
0026	Plant Propagation Practices III (Ag.)		- 96
1105	Plant und Insect Chemicals (Ap.)	ļ	22

Third Quarter

LIIX	Element or st Surveying (Ag.)	3	36
1219	Park and Recruitional Management (Ag.)	1	54
1057	Business Organization		
	and Management (Adm(q))	.1	i0
9258	Special Project (Ag.)	3	54
0596	Employment Experience IJ (Ag.)	6	,ŪO

Park-Recreation-Natural Resources

Firs: Quarter

0647	Proviptes of Accounting I (Accip)	٦	36
d719	Communication Statis II (Contro,))	-18
1060	Soil and Woter Mechanics (Ag.)	3	84
1143	Sad Conservation (Ag.)	1 3	72
3101	Grounds Molutensuer (Ag.)		34
0592	Supervisory Developerant (Adminut	3	- 26
1061	Semmar (Ag.)		
Second	Quarter		
3114	Park and Retreational Development (Ag.)	Э	66
1103	State and Local Government (Poli, Sci.)	2	24
1115	Applied Natural Resources (Ag)	.)	60
1146	Applied Ecomology (Bio),)	.)	60
11[7	theid Production of Nursery Stock (Ag i	.)	60
002.8	Part Propagation Practices 111(Ag.)	4	96
Third Q	INTELET		
1118	Elent, Poresi Surveying (Ag.)	3	36
1119	Park and Representational Management (Ap.)	Э	54
1057	Business Organization		•
	and Marsigensent (Admin.)	3	36
0258	Spreial Project (Ag.)	3	54
0596	Employment Experience II (Ag.)	6	360



PRODUCTION AGRICULTURE

The Production Agriculture program is designed to prepare students for oritry employment or employment advancement in the science of food production. Students receive preparation leading to employment as form operators or assistants. livestock technicians, buyers for agriculture products and implement sales, crop technicians and other occupations requiring a knowledge or the agricultural sciences. Special employees in placed on monophinent and decision making. A form taboratory is available for realistic experiences.

The course consists of eight (welve week quarters or 2,880 clock hears, and leads to an Associate or Applied Science degree. The program is designed to appeal to the student with either a wide or correct agricultural (ackground, farmany instances, students in the various curriculum options are somethy engaged in production agriculture (farming) while emplied.

Beginning the titth quarter, students may specialize in one of four areas. Form Operations, Animal Husbandry, Crops and studs, or Farm Management, A special winter quarter program in Farm Management is also available, which leads to a confrictle open completion,

First Year

			Cod
$\mathcal{D}_{\mathcal{M}}$ if $\mathcal{Q}_{\mathcal{H}}$	an ler	Och	Hours
1427	Serf Silvebon (Agu)	į	42
(6M I	Aprical Tare Scales y (Ag.)	ī	24
04133	Bay C.W; thema (n.s. (Madu)	2	24
Linei	Seichinar (Ag.)	3	1.2
0011	Special Projects I (Ay.)	2	24
0122	E. spisiynami Externizalis 1Ag.2	-	180
Same	Quarter		
1.268	Lasestock Nitterfahr (Ag.)		6.3
1571	Sai Lertilety (Ap.)		50
(10)17	bugapase doalys sited matt		7.:
(1449	Ap. Markeling (Mkte.)	3	45
1061	Secondard Age (2	24
0.002	Psychol Hougan Relations Enflected	3	45

0002 Psychol Ibligar Relations Enforces 0847 Units Record Records (Accres)

Thurd Quarter

0627	Communication Skills 1 (Camin.)	3	56
D\$98	Agriculture Economics (3	36
0759	Fains Management (Admits.)	3	0.0
i 266	Field Cop Prislus Fait (Ag.)	2	- 36
1062.9	Sponal Projects II (Ag.)	1	1.2
18812	Employ menu (experience il (Ag.)	7	1.805
18812	moleo) and experience at (Mg)		14

Fourth Quarter

15.23	Form Machinegy (Meetly)	7	144
15.24	Fairs Construction (Ag.)	3	64
1525	Applied Evestock Michardry (Ag.)	4	72
2528	Applied Grop Production (Ag.)	3	60

Second Year

-Fijak Q	LaDo.		
0719	Communication Skills II (Lazman)	Э	56
1292	Smak Sectology (Sec.)	2	24
36.35	Cop Production Analysis (Ag.)	1	12
0i 29	Agricultural Apaigsis (Ap.)	1	24
>579	Advanced Farm Lab (Ag.)	5	84
(0004	a mployment Experience III 1Ag.)	3	1.8D

Seeth Quarter

-. .

3

 $d\mathbf{k}$

1530	Ag, Finance (Admin.)	2	24
1394	Agreeuleure Mathematics (Main)	2	36
35.91	Advanced Interprise Analysis (Admin.)	, i	72
1061	Seminar (Ag.)	2	.24
1532	Advanced Farm Lab II (Ag.)	4	1.55
01.04	Ap. Tax Accounting (Accle)	2	18
Seconda	Quarta		

1 SOK	Pesty and Postmoles (Ap.)	7	36
1517	Supervisory Development (Psych.)	7	35
25.96	Advanced Filling kills III (Ag)		-90
2103	State and Local Lovern (not) (Pole Sco)		.74
-3004	Ecoplay metric La perforce IV (Ap.)	7	1.80

9760	Lorini Maeto Operatuela (Ago	7	1.51
1534	Furnisteed Planning and Meelian Autom (Ag.)	2	44
1535	Advoced Summittee (Assumption	:	46
- 000 -	Adopted Familiah IV (Ago)	5	84
1281	Ay, Predmit Marketing H	2	48

AGRIBUSINESS

The Agribuances program is designed to prepare students for entry employment in the field of farm supply distribution and service. Students receive preparation leading to careers is citerricals, feithers, feeds, grain, and general farm supply work. The program is set up so that students can terminate at the end of four quarters of education and go directly into the world of work it they choose. Practical employment experience periods are included.

Students successfully completing this seven-quarter program receive the Associate of Applied Science degree: those completing four quarters receive a diploma.

First Year

First Ouester

· · · · · · · · · · · · · · · · · · ·			
1798	Agriculture Equipment Management (Admin.)	4	96
[427	Soil Science (Ag.)	1	48
1265	Lasosteck Production (Ag.)	3	48
df41	Agacultural Survey (Aga)	2	48
0923	Principles of Sulling (Mktg.)	3	60
0023	Rasic Mathematics (Mada)	7	- 48
1091	Servina: (Ag)	1	12



40

Second Quarter

1268	Locate & Netrition (Ag.)	3	60
1511	Seil Fortility (Ag.)	3	60
0005	baceprise Analysis (Adupti)	3	72
04-19	Agricoltoral Marketing (Mktg.)	4	43
1508	Principles of Accounting (Acctug.)	3	43
0302	Psychology of Buman Relations (Psych.)	3	- 48
1061	Seminar (Ag.)	2	24
	Providence (1989)	•	-

Third Quarter

6638	Ag. Economics I (Ag.)	3	36
0759	Fam: Management (Admin)	3	61
1505	Store Skills (Mkig.)	3	43
0627	Communication, SkiEs I (Commut-	3	- 36
0132	Employment Experience (Ag.)	1	180

Fourth (America

1056	Field Crop Production (Ag.)	2	26
1069	Ag. Equipment Operation (Model)	۱	144
1500	Ag. (Temmals (Ag.)	۱	26
07/24	Office Machines (Octice Ed.)	2	3.9
1.283	Mercharshang Techniques (38king.)	L	48

INOTE: Students can graduate.)

Second Year Options: Agribusiness Service

Fifth Quarter

:268	Grain Grading and Handling (Ag.)		6.9
. 192	Roral Societegy (Soci)	2	24
1393	Agrigues uses Wanapendort (Ag.J	1	60
0719	Contention (cuttorn States II) (Controls)	5	- 36
0132	Employeddit Espectador (Ayd	:	180

Wards Quarter

1214	encod Prowtopt sins (Ag.)	.5	: 20
1776	Ar my Earth Products (Ag.)	2	43
1231	Advote & Aprico Joral Marbeting (MKg.)	3	45
0257	Applied Ibniness Law (Law)	3	36
0104	Ap. Fast As counting (Accipat	2	4 K
3294	Agro oltopic Mathematics (Math.)	2	36
10991	$S_{CO} = g_1 (Ag_2)$	2	24

Seconth Quarter

1.284	Hestocidos (Ag.)	3	48
14.34	Wood Science (Ap,)	2	48
1353	Seed and Fertilizer Service (Ag.)	3	73
1503	Agrificishess Sales (Ag.)	3	60
(inv2	Supervisory Development (Psych.)	4	77
1103	State and Local Government (Pol. So.)	2	34
0268	Oral Communications (Comm.)	2	- 346

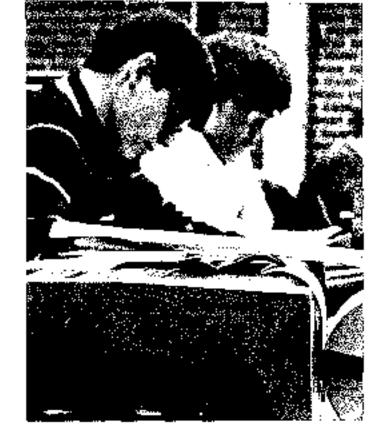
Second Year Options: Agribusiness Sales

Hafra (2	942) T-CY		
1.793	Agabusiness Management (Ag.)	4	- 60
1261	Advertising Teanniques (Matg.)	પ	60
1 29 2	Ratal Sociology (Soc.)	2	7.4
D719	Communication Skäls 01 (Comuta)	પ્ર	36
0122	Employment Experioned (Ag.)	-	180

Sicol Q	Závodi (†		
1519	Uveslock Bushanday (Ag.)	2	- 48
1.276	Animal Health Products (Ag.)	2	- 48
1/281	Advanced Aprivaltural Marketing (Mkig.)	J	48
1.290	Buaness Law (Law)	1	- 36
10104	Ag. fax Accounting (Acety)	2	-48
1352	Feed and Pertilizer Service (Ap.)	3	72
1.294	Agricolitatal Mathemotics (Math.)	2	36
L 116 1	Seminar (Ag.)	2	- 36-

Second Quarter

5284	Herbandes (Ag.)	3	48
[434	World Science (Ap.)	2	45
1977	Managemport Accounting (Audigat	- 3	77
1503	Agribusiness Soles (Ag.)	5	60
1692	Supervisory Development (Ph) (3.)	1	77
11413	State and Local Conversion (Poli, Soc)	2	74
0268	Otal Copentation para (Epineo,)	7	36



Business

ACCOUNTANT-SPECIALIST

The Acquintant Specialist seventy-two work curricultum is designed in prepare individuals for the semi-professional levels in accurating. Upon completion of the considuum, the statical will be prepared to enter business in the areas of cost accounting, auditing, general accounting, and many other specialized aseas of financial reporting. Requirements include accounting principles and gractice, general and occupational information and business attension. Admission of students to the Accountant-Specialist curricultum will be based principly on the interest of the student.

An associate degree in applied science will be swarded upon completion of the following required courses:

	·	Ordia	Clock Hours
126.2.7	Defense la surface sur divis la falencie d		36
	Principles of Accounting I (Accig.) Base sides of Accounting II (Accig.)	; 3	36
0733	Principles of Accounting II (Accig.)	3	
0831	Principles of Accounting III (Accig.)	4	36
6.22.8	Interinediate Accounting I (Accigo	1	48
0329	Intermediate Accounting B (Acetg.)		48
1026	Elementary Cost Accounting I (Accig.)	4	45
0116	Flementary Cost Accounting II (Acc12)	4	48
04.26	Income Tax (Acetra)		36
0536	Accounting Providuom (AC) (g.)	+	4 H
6710	Accounting Exboratory (A.S. (p.)	1.2	216
9596	Business hybriddigs (Admin)	1.2	480
0724	Office Machines (Off. Fd.)	2	36
0520	Introduction to Businets (Admin.)	4	48
6597	Business Low I (Law)) 3 3	36
0694	Busaness Lass II ("Law")	- 3	35
0113	Principles of Finance (Admin.)	- 3	36
0687	Introduction to Data Processing (Data Pr.)	3	J6
()SiiG	Business Application of Data Processing		
	(Duta Pr.)	,	26
11277	Principles of Dasiness Elimonnies 1	! 3 3 4 3	J6
F1 379	Principles of Business Economies [])	- 36
06277	Constructional Skills For	ڌ	36
ÉNIV -	Composition 3 (Comm.)	4	48
1071.92	Communications Skill II or	3	36
06-30	Composition II (Comity)	4	48
0558	Noticel 1 (Speech)	;	36
0023	Hasie Mathematics I (Math)	ì	36
0424	http://www.alecting.th.th		611
0674	Fundamentals of Statistics (Math)	N	64

"The student may cleat to oppul in the callogy gars/fol Economics, The respiration of their world" for K contacts I, Economics II, and Economics 131,

JUNIOR ACCOUNTING

The one-year program 5 designed to grephre students for entry level positions in the accounting field. Includes field mental knowledge of accounting, and an understanding of base concepts, definitions and terminologies. Group distruction, individual instruction, holesatory practice, and simulated work experience are included.

A diploma will be awarded upon completion of the following required courses:

			Grain	Hours
	0458	Accounting hundamentals (PAccip.)	5	60
47	0580	Accounting Fundamentals (1 (Acc1g.)	5	60

0683	Accounting Fundamentals III (Accig.)	5	63
0510	Accounting Lab (Accag.)	35	50.0
0724	Office Machines (Off, Fd.)	3	
0077	Contrage Typing L(OO), Ed.))	úC
0977	Income Tax Procedures (Aucig.)	L L	36
05%	Business fore ostrip (Adron.)	32	283
0932	Floringers of Dary Processing J (Data Pr.))	45
1413	Sjements of Data Processing II (Data Pr.)	.!	48
0257	Applied Anoness Law (Law)	3	25
9544	American I conoiny (Leon.)		36
09.37	Communications Skits 1 (Comm.)	1	36
0/19	Overage, equipped Skills II (Course)	!	36
(11:23	Basic Mathematics I (Math)	3	36
0607	Personal Development J (Pers. D.)	2	24

FASHION MERCHANDISING

Fashion Merchandrany provides technical training for individuals interested at the field of retailing fashion geoducis. Career opportunities for trained persons include the areas of fashion coordination, fishion buying, fashion promotion, and departmental numagement.

The Fashion Merchandising program is sever, quarters in length and features a combination of general education, fusiness education, and technical faction study. The program includes business usternslap which provides the student acteal work expension meetals forms theoryhear lowa.

An associate degree in applied science will be awarded upon completion of the following required courses:

		Creda	Clork Baurs
09.23	Proceedes of Sectors (Miksg.)	÷	-18
QS20	I-dradaction to Bastness (Adata).)	4	4 K
9882	Merchandtar Morb (Math)	3	30
0926	Principles of Reighting (Mkig.)	4	45
0771	Incompany (E. 2002)	3	16
]41[Prize ples of Deeploy (Merg.)	2	°4
4087	Principles of Marketing (Mk 19,1	4	48
65.04	Prize jurys of Advections (Mkig)	÷	48
GA93	Supervisory Development (Addition)	9	10
0910	Fredri Proceduros (Admini)	3	36
95.97	Businges Law # (1.40.)	9	16
0687	Torreslucion to Data Processing (Data Pr.)	3	36

0700	Refeil Management (Admiss)	á.	68
0560	Retail Accounting (Accipa)	4	48
0596	Business Internship (Admin.)	24	960
0369	Principles of Eastern Metchandismy (Mkrg.)	.1	36
0112	L'ashion Merchandistry Laboratory (Masg.)	6	120
0295	Epshina Raying (Admin.)	.i	60
0388	L'asgione History (Home Sc.)	3	30
0572	Egsprin Show Protections (Mk10.)	- 3	36
0299	Egshion Hester (Botto: J.C.)	4	43
05/37	Jexilles (Harae Ec.)	3	30
0505	Texate 5 shormory (flows Ec.)	2	24
165.29	Profilams on Fashier, Merchandising (Mktg.)	2	24
8358	Naweh I (Spitsch)	3	36
0.002	Psychology of Burnan Relations I (Psych)	3	.16
1607	Personal Development 1 (Pers. Dov.)	2	24
0702	Persons) Development II (Pers. Ucv.)	1	24
0323	Basic Mathematics 2 (Math)	ş	GI:
0517/	Femposition Los		
0627	Caracaura, mon Skills I (Courte)	4)	45-76
06017	Camposition II or		
0719	Comprise tion Skills II (Comm.)	4-3	48-26



FLORICULTURE

The Floringfure program is a specchized training program designed to prepare polyte for categors in the floral network. This program provides the student with massionit and baboratory instruction in all phases of flohenhule and two live-week periods of busines internship in a flotal shop.

The classroom and laboratory time is devoted to commersia) flower inteing (errenhouse growing and operation), relatflerist shoe operation and business matagement. During this time the student gains actual growing experience in a green/nouse, leads the construction of all types of fintal pieces, and studies the basic principles and princideres for the successful operation of a retain florest business.

During the two business internship periods, each student hysthe opportunity to apply what he assistanced to an actual job situation. While completing this piece of the program, each standard works full time - and is paid the prevailing Wage in the community where he is assigned. The student is supervised and directed by notif the employer and the enordinator during this phase of the program.

A diploma will be awarded upon completion of the fullowing required courses:

			Over
		Orac	Новл
0654	Basic Flore, Designing 1 (A1)	4	JD
00.01	Shash i local Designing (1 (Art))	2	NG
0113	Basic Fieral Designing III (Art)	2	50
4596	Dosmess The riskip (Admin.)	32	450
0402	Commercial Hower Foreing Greenboose		
	L (Agri.)	2	48
0469	Commercial Slower Instang Georgious:		
	li (Agri.)	:	28
0581	Comparing Flower Forcing Greephonse		
	(EL (Appl.)	1	28.
1096	Plant Entomology (Blob)	ì	4
6282	Plant Pathology (High)	1	14
1421	Plant Situation and Growth (Wold)	2	12
£425	Reproduction of Plants (Birds)	1	1.2
0501	Retyil Ekolor Ship Operation 1 (Admont	4	77
0599	Regal Finwer Shop Operation II (Admin.)	1	49
(86/99	Retail Haver Shop Operation III (Admin.)		49
(4)7	Soits and Fertility (April)	:	1.2
DS28	Deo Kknepung (Accily 3	3	36
0020	Dusic Mathematics L (Muth)	3	36
4622	Communication Skills (Commu-	3	36

0719	Communication Skalls U.B. contract	3	×6
0602	Personal Development 4 (Rev. Dev.)	L	72
67412	Psychology of Human Real parts I (Psych.)	3	36
0782	hundamentals of Satesmanship (Mktg.)	3	36

FOOD STORE MARKETING

14

The fixed Store Marketing program is designed to propine people for cancers in the retail or wholesale food nullistry. Through specialized training, students will be provided with the background and skills decessivy for messing the requirements of this vestional rapidly expanding field of work.

Students condition in the Food Store Marketing program will receive a combination of general education, business education, and technical study related to find store marketing. The program includes business internation which provides the student with actual Work experience in social or wholesale trood outlets.

An associate degree in applied science will be awarded upon completion of the following required courses:

e Bach

			1.30cS	
		Ocár	Downs	
943ê	Ingroduation to Front Store Marketing			
	(Mklz)	-1	45	
0749	Jousd Store Marketing Libbratory (Mk)gal-	1é	200	
05%	Business Internship (Admin.)	2.1	900	
0159	Food Steve PLINNING and Layout (Mkigu)	3	30	
1535	Checkson) Management (Admin.)	2	24	
49025	Steak Correct (Adminu)	3 2 3 3	30	
1402	Product Merchand song (Metg.)	3	39	
0246	Food Steps Maragement (Admin.)	5	E-0	
09.23	Printing away Selling (Stkiga)	4	48	
65.20	In gradue task to Nusbess (Adma.)	4	48	
092c	Principles of Marketing (Mktg.)	4	45	
0797	Business Line 1 (Zaw)	- 1	36	
1518.7	Princip level Marketing (Marga)	4	45	
415114	Prepaptes of Advertising (Mktg.)	4	46	
Bc + 7	Principles of Accounting L(Accred)	!	36	
0592	Supervisory Development (Admso.)	5	30	
0544	Management Associations (Ap. 12)	+	29	
62.377	Composition For	-1	48	
0627	Computation Skills I (Commu-	3	36	
0502	Psychology of Ruman Relations I (Psych)	· ·	90	
16135	Dasie Mathematics (Math)	5	30	
05412	Composition II or	4	45	
0219	Communication Scills II (Const.)	+	36	
0358	Speech I (Speech)	ï	36	
0771/	Lengonius For	÷	.15	

1277	Principles of Baspess Feenomers L(Econ)	3	36
03627	Economics R or	3	36
1272	Periodplos of Business Boononizes (1	3	36
0687	Introduction to Data Processing (Data Pr.)	3	36

RETAIL MARKETING

The Retail Marketing program is designed to prepare students for convers in the relating autostry. This program stresses an uniterstanding of business procedures and the knowledge of retailing principles and procedures.

Students will receive a combination of general education, business education, and technical retail study. The program includes buginess interriching which provides the student with actual work experience to retail firms. Students are given the opportunity to specialize in specific actas of retailing.

An assoinate degree to applied withtee will be awarded apon pumpletion of the following required courses:

		Credit	Clores Hours
0920	Principles of Selling (Mktg.)	4	48
09.86	Proceptes of Retailing (Mktg.)	4	48
0.0812	Principles of Marketing (Mktg.)	4	43
4504	Principles of Accertising (Mktg.)	4	48
34)1	Principles of Display (Matg.)	2	24
19439	Recall Markering Cahecourty (Vekig.)	16	200
9737	Trends in Retinang (Mktg.)	3	30
10.99	Meronaudising (Micty)	1	30
95.30	Introduction to Dusiness (Admin.)	4	\$5
9592	Supervisory Development (Adram)	3	30
0919	Credit Procedures (Adama.)	4333	30
02/00	Retail Management (Admin.)	.5	60
0596	Business Internship (Admin.)	24	-960
06277	Communication Saids For		
8.535	Composition J (Cameric)	3-4	J6-18
07:9/	Computation Skills U or		
Gri 3 L	Composition II (Comm.)	3-4	36-48
0023	Used Mathematics J (Math)	3	36
0894	Merchandise Motownate s (Mathu)	1.	30
0702	Psychology of Human Relations J (Psych.)	3	90
07717	Eour amies I or		
1277	Periodiplicant Business's associated II (Feb.a.)) (36
0862/	Enargement and		
1273	Principles of Business Is, anothins If (Er on I	1.3	.)6
0355	Speech I (Speech)	3	36
0647	Principles of Accounting 1 (Accigo) 3	36
OH44	Management Accounting (Access)	2	48
0597	Business Liw (112aw)	3	36
0687	Introduction to Data Processing (Data Po)	3 3	34
		-	-

ADMINISTRATIVE SECRETARY

Marta di An

The Administrative Secretary Program is a two-year program which permits length and depth in the study of secretarial science. It not only prepares a student for a skilled position in the office but permits her thirecove a well-rounded education that makes her not only a skilled secretary but a participating member of an executive team.

An associate dogree in applied science will be awarded apon completion of the following required courses:

contlast	liter (in the spinolence region (in the spinole sector)		
		Ore.dri	Clouit Hours
9075	Cellege Typing \$ (Oct. Ed.)		60
0173	College Typing II (Off. Zd.)	3	50
0173	College Typing III (OM: Ed.)	í	60
D3tel	College Typing IV 1000 EZ.)	i	÷8
0300	College Shorthand I (Off. I.d.)	ŝ	1i/1
0362	College Shorthood II (Off. Ed.)	4	60
0546	College Shorthand III (Off. 545)	4	63
0914	College Shorthand Transcription (D)r, Ed.)	4	48
0314	Office Education Laboratory (Dff, Md.)	La la	336
1063	Office Procedures 1 (Off, Ed.)		120
3065	Segmential Procedures (DIF, Ed.)	4	48
07.247	Office Machines (OII, 10.)	-	
1395	or Office Calculation Provedures	2-4	36-60
0146	Broords Manageotent (Off. Id.)		16
0246	Office Management (Admon.)	2	56
2010		-	
1.647.	Principles of Accepting L (Acc)().	• .	
0253	or Orlice Accounting	34	36,98
0733	Principles of Accounting II (Accig)		
	og plactive	3	26
0520	introduction to Business (Admin.)	4	45
0603	Personal Development I (Pers, Dry)	2	24
0499	Hasjerss Waiting (Countri)	ч	26
0597	Hugipess Liw I (low)		26
0037	Infjudication to Data Processing (Data Prod	à	.36
1696	Regimess Internship (Adminu)	13	480
45327	Camposition L(Control)		
66.27	or Communication Skills I	4-3	45-36
86317	Ceraposition II (Cerana)		
0719	or Communication Skills II	4-5	48.06
#258	Speech (15pccol)	1	<u> 96</u>
0589/	General Psychology (Psych.) ()		
	Psychology of Adjustment (Psych.)	4	48
8771	Footomics I (Fcon.)		
1277	or Principles of Business Econymics 1	3	36
	Flectives ¹	8	26
		-	

¹Electives must include a dependin of sight boots from at least two of the collecting areas, math, sojonte, social scence and business.

CLERICAL-RECEPTIONIST



The Clerical Receptionist Program propares students for entry into clerical positions in the office. The positions include clerk, typist, filling clerk, receptionist, and other positions providing office services.

A diploma will be awarded upon completion of the following required courses:

			Ciock
		$O_{F}dit$	Hours
0077	College Typing I (Off. Fd.)	ч	60
0713	College Typing II (OD) I/d.)	,	60
0267	College Typing III (DH, hdg)	1	- 69
1395	Office Calculating Proceedures (Off. Ed.)	4	60
1089	Office Princodures I (Off. Ed.)	-	120
1389	Office Procedures II (DIT, Ed.)	5	60
82537	Office Accounting of	4	46
0528	Burlickerping (Austral)		
9146 -	Records Management (Off. Ed.)	3	- 36
0216	Offsee Education 1 ab (Off. I.d.)	- 6	102
(1596	Business Friter(She) (Adiata)	- 6	240
0520	Introduction to Business (Admin.)	4	48
0932	Honorets of Data Proceeding I (Data Pr.)	3	48
0766	Introductory Responsibility (Data Pr.)	2	26
6627	Computing (puls Skills I (Contac.)	3	- 16
0719	Equipation (page Skills 11 (Comm.)	3	26

LEGAL SECRETARY

The Legal Neoretary program provides the specialized transing negativity for work in a law office, a bank, or in a similar field. In addition to advanced transing in basic office skills, the student sectives intensified technical course work in the legal sectorarial area. This course work is designed to be flexible and to relate to the individual student's interests, abilities, and occupational objective. The program is four quarters in length: A diploma will be awarded upon completion of the following courses.

		Creait	Hourd
00777	College Typing 1 (OU), 1:4.1	3	60
0123	College Typing II (Off. Fd.)	3	6.8
0267	College Typiop (0. (Off, fid.)	3	60
(18.79	Legal Typing (OF, July	2	N6
0171	College Shorthand I (Off, Ibla)	4	60

0.062	Callege Shorthan() B (G27, Fd.)	4	60
0546	College Sherthand DI (Orr, Ed.)	4	60
0914	Callege Shorthand Teattacogation (Oct. Ed.)	4	48
0298	Legal Dictation (Ott. Fd.)	3	36
143L	Legal Machine Transcription (Oct. Ed.)	3	36
0322	Legal Terminology (1011-4-4.)	3	36
0503	Law Office Procedures (GR, Iol.)	3	- 36
0.597	Basiness Law J (Law)	3	36
0694	Business Law II (# aw)	3	- 36
0927	Income Tax Procedures (Acuted	3	- 36
1395	Office Calculating Propodures (Official)	4	БO.
0523	Bookkreping (Ats (g.)		
	ar		
0253	Office Accounting (Acougat	1	48
74853	Déficie Procedures I (Off. Ed.)	- 7	120
0146	Records Managemented (OP), Ed.)	ч	- J6
()622	Communication Skills 1 (Contan)	3	36
071.9	Communication Skills U (Compil)	Э	26
9647	Personal Development 1 (Pers, Dev.)	2	- 24
0302	Psychology of Human Relations U(PsyCOU)	ч	36
0216	Office Education Lab (Off. Fil.)	6	24(1
0596	Business Internship (Admin.)	6	240

The Medical Secretary program is a four-quarter program designed to give students the skills they will need as a secretary. in one of numerous health-related occupations. ductor's efficies, clinics, insurance offices, lospitals, and laborationes.

Students receive advanced training in basic office scills along with intensified technical course work in the medical secretarial area. Students may substitute electivos for shorthand () they desire. It students enter with advanced skills, it is possible for them to complete the program in loss than four quarters, After successfully completing the four-quarter program, a diploma will be awarded.

Circle

		Centur	Routs
9977	College Typing F (Off, Ed.)	9	60
0173	College By ping II (Orf. Ed.)	ч	60
0262	Callege Typing III (Off. Ed.)	3	60
9956	Moderal Secretarial Typing (Off. Ed.)	, 4	48
0171	Cadege Shorthand I (O((,FiL) () = 1.1 C))	· 4	60
0962	 Cellinge Shorthand II (OE: Ed.) 5, 11, 11 	4	60
0546	College Sharthand III (Off. Ed.) July 60000	+	60
0713	Medjeal Secretariat Division (Off. Ed.)	4	46
1407	Medical Secretarial Terminology and		
	Body Structure I (Bod.)	4	48

13.87 Reduct Secretarial Terrotockapt and Beay Stors (Greff, Hold) 4 48 22 0339 Motional Lunc (Law) I 0093 Medical Static Long Office Procedures 48 4 70h, E4, F Modia al Socrybulgi Mouldine Transcription 1435 1 24 TÚM, EALI 1395 Office Calculation Brisleduces (Ort, Ista-4 hel 0932 Elements of Baca Processing 1102(4 Pr.). ţ 48 92537 Office Accessibling on Beak Account (Accig): + 43 0578 Office Procedures 1 (Off. Ed.) 3 t 20ⁱ LASJ Reputds Managor and (Oth Ed.) í. 26 0146 Introduction to liastness (Admin.) 48 ۰I 0520 36 8302 Psychology of Human Relations (Psych.) 1 ģ 204 0216 Office University Lab (Off. Ed.) 1 30 Corrected at set Skills 1 (Commu-0627 Comparate at the Skills II (Commu-3 36 0719 Business Intercology (Adman.) 6 240 41596

Electives may be taken as lien of shorthand with approval of the coardination.

GENERAL SECRETARY -7. A. 19.

Students planning a secretarial career in any of dozens of hysinesses from advertising agencies, banks, and travel buryaus. to government agencies and educational institutions will find Kjikward's General Secretary Program suited to them,

.

Targe of four quarters in length, it incorporates classroom, activities and un-the-job experience in developing the skills, knowledges, work respire, and confidence a good secretary neCés.

After hase requirements have been met (at the end of three) or four quarters depending upon the entry skills and the rate of progression of the student), the student will be failly propared for a secretarial position and will receive a diplomo-

		Coda	Clack Hours
0077	College Typing LOC. Fold	4	60
0173	Callege Typing II (Off. bill)	3	60
3262	Cottage Typing III (OY E0.)	3	60
0364	College Typing IV (Off. Ed.)	3	48
0171	4 allege Shordland 37(O)7 Ed.)	4	60
0362	College Shortburd II (OU, 141)	4	60
0546	College Shorthand 11 (Of), 4(d)	4	6-3

0914	Shorthand Franking (040-104)	4	45
0528	Boostkeeping (Acotg.)	4	÷ŝ.
\$253	er Office Accounting (Accirc.)	4	48
1083	Others Proceedings (1000, Ed.)	2	120
1383	Others Proceedures (1) (Off. Ed.)	3	60
0672	Communication Skills I (Comm.)	1	36
0019	Communication Skilly II (Commu)	- 3	36
126.52	Moments of Data Processing I (Data Pr.)	3	43
0520	forreduction to Business (Adama.)	·I	45
1395	Office Calculating Proceedings (Off, File)	4	6)
1.692	Personal Development I (Pers, D.)	2	24
0302	Phychology of Human Relations 2 (Psychol		.16
0146	Ren suds Management (OU), Ed.)	3	36
0216	Onjee Education Laber (Off. Fd.)		
	3-quarter student	ú	144
	Acquisition studeon	. 9	2.94
0.596	Ististic vs Informatique (Adminis)	ŀ	340



Data Processing

DATA PROCESSING - PROGRAMMER/PROGRAMMER ANALYST

Students majoring in programming and systems analysis may complete a sos-quarter corriendum as a programmer and can continue 1.- graduates with an Associate of Applied Science degree, as a programmer subject. These curricula are finalizes oriented with much of the second year used to breaten the students' knowledge in business systems. The training in programming is aimed at providing applied technical knowledge so that the student can step directly in to the occupation of programming. New students can start training each of the four quarters. Ducts of training change frequently to keep pace with the industry.

First Year

			Chart
First Qu	er for	Own	Hours
0515	Self-Service Ards for Programmons (Data Pr.)	:	12
0601	Punched Card Data Prevessing (Data Put-	2	36
0606	Initio to Computers and Programming (Data Pr.)	4	36
0528	In tro to \$/360 (Stata Pat)	j	36
0345	Computer \$250 Associately Language Programming 1 (Data Proj)	36
0665	Catil: Lapo D. St Projects I (Data Pr.)	2	45
)430	Flowchasting Inchniques (Data Pr.)	2	24
	Open Lah	-	73K

Noconá Quarter

DJ B2	Compater S/36# Assembly Langes @		
	Programming 31 (Date Pt)	3	35
0549	Card Tape Disk Protects II (D) to Prot	2	46
()=411	 Computer \$/350 Disk Operating System Cod 	mg –	
	(Data Pr.)	5	- 22
0462	Program Analysis (DxO P.1)	2	.36
03.53	Documentation UsData Pro	2	- <u></u>
40.52	Competer Operating Technoples (Data Pr.)	.!	9a
92.85	Related Equipment I (Data Pr.)	1	.34
	Open Lab	•	2.76

The d Q	luarter		
0149	Intro to \$/360 COBOL Programming		
	(Data Pr.)	3	- 84
044.2	lluginess Organi and MgL (Admin.)	1	36
1231	Computer \$/260 Disk Operating System Advanced		
	Coding (Dyla Pr.)	5	- 84
	Electives	-1	96
	Open Lab	-	240

Fourth	Querler		
0324	Intro to Systems (Data Pr.)	3	36
0773 1253	Accounting Survey I (Acolg.) Advanced S/360 COBOD, Programming	,	26
1.25	(Data Pr.)	5	77
6780	Math DC (Maile)	4	48
	i lieutivos	3	36
	Open Lab		2.28

Second Year

$-h(\phi, Q)$	eyeler.		
06.23	\$/360 DOS Communications Loding		
	(Data Pr.)	3	48
1252	COBOL Projects (Dasz Pr.)	3277 E	43
-9 8 -72	On the Job or Assigned Projects	2	45
0627	Construip (capton Skills I (Construi)		36
0 740	Programming Systems (Data Pr.)	2	24
	Electives	5	60
	Open Lab	-	264
Seath Q	sarter		
0894 0615	lujto Report Program Geneastor (Data Pr.) Rego S/360 FOR CKAN Programming	2	36
001)	AData Pr.)	э	48
18:04	Installation Management 1 (Data Pc.)	3 3 3	- 16
0674	Statistics (Slat.)		36
	Electives	5	72
	Open Lab	•	228
Sewata	Quarter		
0497	Nonrecical Analysis (Data Ps.)	3	36
0325	On the lob Systems Projects (Data Pr.)	3	36
0881	Payroll (Personnel Systems (Data Pr.)	3	36
90.57	Accounting Systems (Data Pr.)	333222	36
0.400	Material Control Systems (Data Pr.)	1	36
	Elgatores	2	24
	Open Lab	-	2041

Elphih Quantor

0345	June to Operation's Research (Data Pr.)	3	36
QL 77 -	Production Control Systems (Data Pr.)	1	- 36
0264	Project Management Systems (Data Pr.))	36
0071	Applied Systems I (Data Ph.)	1	- 36
	Electrocs	s	60
	Open Lab	-	204

GENERAL DATA PROCESSING

Supporting Services trains for a cluster of closely related occupations in data processing. A one month and out of this curriculate would train for entry as a trainee to keypunching. A student completing two quarters would be trained to work as a magnetic tage librarian, work scheduler, records auditor, documentation specialist, or operations assistant. There is comgenutile overlap between courses in General Data Processing and courses in Programmer/Programmer-Analyst, Students can transfer between programs with a minimum loss of credits.

171.000

			CARCE
First Q	mrker	Grafit	Hours
0266	Interoluctory Reypunch (Elata Pt.)	3	60
0097	Keypunch Lab (Data Pr.)	3	\$ 0
0603	Punched Card Data Processing (Data Pr.)	2	- 36
0906	Incredible Computers and Programming		
	(Dana Fr.)	3	36
8020	Intro 88 5/360 (Data Pr.)	3 3 2	- 36
07.24	Office Machines (Off. Ed.)	2	- 68
	Open Jab		
Nerrond	Quarter		
192 #3	Computer S/360 Assembly Language		
	Promainising I (Data Pr.)		36
0665	Card-Tape-Disk Projects I (Data Pr.)	2	48
1430	Flowcharting Technoques (Data Pr.)	2	24
0146	Record's Managori ent (Off, Fd.))	JG
0533	Decementation # (Data Pr.)	2	24
0352	Computer Operating Techniques (Data Pro-	2	36
0788	Related Equipment I (Data Pr.)	L	24
	Oper Lab		



Health Occupations

ASSOCIATE DEGREE NURSING

The Associate Degree Nuising program is two years (2.7) academic years) in length and consists of eight 32-wook quarters. The graduates of the nursing program are elipible for the associate degree in Applicit Science and eligible to write the licensed registered nurse examinations.

Upon completion of the program, the guidantes will be capable of functioning as statt measure. Care of pacients involves identifying the bagic physical, psychological and reliabilitation. requirements of patients and providing ways to meet those needs in a variety of settings. This is done through observations and assessment of the patients, activating nursing care. measures, implementing the medical care plan, informal health seaching and participating as a reentber of the cursing and health team. Students in the ADN program take special norsing courses each quarter, along with selected Arts and Sciences courses

First Year EAST (Jugenn) Nursing XN 101 (Nats) 13.32 0883-2 Anatomy & Physiclapy 1 (Soil 1 0165 Intrustitution to Sociality (Sec.) 1346 Metrology, RN1 (Norse)

Second	Quarter		
3354	Apatoniy & Physiobley (Biol.)	+	60
0358	Sparale I (Sp.)	3	36
1359	Nursing RN II (Nursi)	÷	204
Davd Q	103F70F		
3058	Integrated Science 1 (Sci.)	4	50
4024	Psychology at Child Development (Psycho)	-1	46
1333	Norsing RN III (Ners.)	è	2:04
Роют А	Quarre-		
0254	Social Problems (Sec.)	4	45
0:124	Paychelogy Growth & Development (Pavels)	-1	45
1.394	Mussing KN IV (Nars.)		

Second Year

é?ext (A	oge 58h		
1362	Integrated Science II (Sci)	- 4	60
0537	Comp I (Comu.)	4	36
1335	Norsing RN V (Ny rs.)	- 11	276
Nevona	Quality		
	Elective	-1	4.5
0631	Central (Contral)	į	48 26 775
1342	Nutsing RN VI (Nurs)	;î	775
Zua e Q	lainer		
0369	Prychology (Psych)	+	48
1306	Changing Patterns of People Care and	-	
	Surange BN (Nors)	2	.74
1310	Notsing BN VII (Nors)	12	24 31.2
iburth	Guneter		
	- Montjy:	Δ.	48
1114	•		24
1315	Nation RN V71 (Ners)	i ŝ	312
/		•	

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Clock

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156

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49

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DENTAL ASSISTANT

50

The Dental Assistant Education Program prepares the student for successful employment in private dental offices, group practice, dental services and closes and crospitals and public health installations.

The objective of the program is to prepare the student to directly assist the dentist in the treatment of patients, manage a smooth functioning business office, and perform the basic laboratory procedures in a dential office.

The total program is a one year duration consisting of four 12-week quarters. Upon successful completion the student receives a diploma.

			$-$ Or ϵ
- tirn Qua	ale -	Creit	$\theta_{\rm corr}$
0126	Dental Materials (Dental)	3	72
41270	Principles of Doutal Assisting U(Doutal)	4	3%
0550	Pre-Clinical Science 1 (Dental)	3 4 3 2	6.0
0039	Othentation (Donial)	2	- 16
0792	Dental Raboratory Assisting U(Dental)	4	84
0602	Personal Development (Perc)	ι	24
Second G	(nerier		
0368	Principles of Der (d. Assisting U (Dental)	- 5	95
05-14	Pro-Clanical Service II (Dental)	- 3	36
6880	Dental Laboratory Assisting II (Dental)	63243	36
0212	Clinical (Dental College) I (Dentat)	4	156
0627	Communication Skills Les	3	36
0537	Composition Information	4	or 1fl
$Third Q \sigma$	with the second s		
0731	Pre-Clanical Science III (Dental)	2	24
0225	Ocuital Office Managements I (Admint)	2	36
0243	Dental Bookkerping (Acci.)	4 -	48
0307	Clinical II (Dental Callege) (Dental)	-1	130
0957	First Aid (Safety)	4 3 2	12
0719	Communication Skills If or	- 3	36
0356	Speech I (Continue	- 3	36
0815	Dental Typing (OIL Ed.)	2	.16
Fearin Q	luorier		
0307	Psychology of Human Relations E (Psycho)	9	36
0947	Denial Bankkospley II (Accig.)	5	35
0324	Denial Office Management II (Adram.)	- 2	ખ
0397	Clinical (Private Practice) III (Dental)	5203	2.28
0137	Dontal Assisting Seminar (Dental)	3	36



DENTAL LABORATORY TECHNICIAN

The Deeta, Luboratory Technician program is two years in length, consuming of eight consecutive tweive-week quarters

Dental J aboratory Technicians will be qualified for employment in commercial dental taboratories, Veterans Administration, University laboratories, private dental offices, and some may choose to operate their own commercial laboratories. They box, pour and articulate models, set up, wax up, invest and process full dentines, cast plays, covers, bridges, garnals, acrysic and pomerain jackets, porcelain on metal and construct many other special appliances.

Upon successful completion of the program students receive an Associate of Applied Science degree.

First Year

First Quester		Credit	tioury
0605	Dental Formandesy (Dental)	Z ,Ś	36
0708	Desilal Mitlerials (Denral)	ч	44
0793	Dental Equipment (Dental)	4	84
0646	Oral Analomy (biol.)	3	48
1027	Denial Anatomy (Deutal)	2,5	ú Ĥ
0514	 Technical Chemistry and Physics 1 (Physics) 	4	60
1303	Projects Lub (D.L.T. (O ental)	·	24

21.00

Second Quarter

0711	Ivolution Consistry and Physics II (Physics)	3	48
8907	Dentory Sectorippics F(Dental)	5,5	114
0185	Articulatory and Articulation (Denial)	5,5	սՌ
0205	Case Inlay and Crown (Dottal)	5	1016
1307	Projects Lab (10), 1, 2, (Devisit)		30
Thè d (J	Harler		
8574	Crinical Experience (30,1.3, (Berly))	10	360

Fourth Quarter

0309	TreFnical Physics D1 (Physics)	1	24
0370	Crown and Batdge ((Scotal)	111	192
6385	Partial Deptiling Techniques I (Dentel)	-1	96
1311	Promits Lab JU D.J.,T. (Deplat)	-	24
1327	Bernal Apotomy (Denia)	2.5	50

Second Year

FOIh Quality		Gean	- Clack Hours
0774	Actylic Licket Crownsord Veneery (Dental)	5.5	96
0476	Partial Destate Techniques D (Denial)	5	90
0067	Dentory Techniques (Bentiff)	÷.	102
0307	Psychology (Psycho)	2.5	36
1355	Projects Lab IV D, L1, (Dectal)		- 36
	-		

Sim P O	501707		
0917	Precision A(1) (function Pay (als (122)(a))	ú	108
0100	Cas) Metal Bose Dectores (Deatal)	9	60
0458	Pore dain, op Matol (DaoraD	4	1.20
06-77	Communication Skills 1 (Counted	2	24
0375	Laboratory Management (Destal)	2.8	36
Sevents	Usian ner		
0245	Percetato Jucker Crawo (Dental)	6.5	120
0326	*Senderal Feelan quasiand Artistulation		
	(Cancelare) (Opennal)	5	\$20
1443	Special Parital Techniques (Dental)	4	72
1391	Krey Psychology and Homan Relations		
	(ISouth)	- 3	28
1323	Projects 145 V 70L.7. (Dental)	-	1.2
Focial (Paartez		
0679	Charal Experience II D.I.T. (Denial)	12	160
	is aljelian will be put on by specialists in each	Sec.al.	

ENVIRONMENTAL HEALTH ASSISTANT 1974-1198 per Day

Kirkwand Community College offers a one year Environmental Mealth Assistant program consisting of four twelveweek quarters. The course provides for laboratory, classicom and practical teaching experiences. Upon successful completion students receive a diptoma.

The Environmental Health Assistant and sanitary engineers, sanitarizes, physiciales, and velocinanatis in service related to obtacting data, aspecting, and evaluating facilities concerned, with public health. He assists professional processing, distributing and servicing of feeds, sewage disposal facilities and plants, building construction and maintenance, an pollonon, radiation bazards, and recreational catablishments and areas, including swimming peols.

The Environmental Health Assistant must be expable of observing, recording and reporting in addition to being skillful in using and maintaining instruments and equipment related to detection, sterilization and disinflection. Further, he is expected to conduct selected machined and bacterial analyses and prepare and greacive cultures from various environmental media,

Employees of Edvaronmental Health Assistant melade the following: county, city, state and foderal health department, state departments of agriculture, housing and urban renewal agencies, schools, milk and fixed processors, food service and restaurant establishments, morels and hotels, detergent and sanitizer manufacturees, municipal water departments and public health laboratories.

			Clock
- Abst Qu	arren	Order	Houzs
3598	Introduction to Public Res(() (Tell)	7	48
9957	First Add (Safety)	0	24
2085	Diseases of Man (Med.)	+	40
1/244	Housing Laspection (Polla)	3	50
0386	Water Striftablen (Polis)	3	72
0023	Base Math I (Math)	2	36
1378	Projects Lish and Tread (Poil.)	- 0	12
0,98.5	Psychology of Human Relations 1 (Psych.)	4	98
Sec.204	Ovarier		
1374	Comparisty Inter-oversity (Palta)	3	45
06727	Communication Skills 7 (Conmut-	τ.	36

06.28	Food Senitation (Poll.)	2	72
07Y1	Sewage Sanitation (PaLt)	4	72
0326	Mile Sabitation (Peul)	j j	72
1578	Projects Lais and Field (Poll.)	ò	24
DC 3 8	Vectors (Poll.)	Ĵ	36
That! ()	Jarrer		
3219	Contrationation Skilly II (Compute	ł.	36
3230	Phythology of Human Relations II (Psych.)	4	48
1383	Instructional Sandataon (Pell)	3	48
1336	Occupational Hestric and Industrial		
	Safety (Pol) (3	ii II
.390	Recreations, Sugration (Polly)	2	4 H
0146	Refuse Samuran (Polla)	4	92
1378	Projects Link and Excit (Rail.)	Û.	48
Fourth	Querter		
0267	Supervised Faild Nudley (Foll.)	10	384
0379	Seminar E.H.	2	24

MEDICAL ASSISTANT

57

The Medical Assistant program is a one-year course comprised of fatal, twelve-week quarters, and leading, apon successful compaction, to a diploma. The course content emphasizes business courses, English, beological sciences, medical psychology, medical law, medical laboratory procedures and personal development.

Following graduation the student must satisfactorily complete two years of continuous employment as a medical assistant, after which the student is able to take the certified examination offered by the American Association of Medical Assistants. Those passing this examination may be certified as either a clinical or administrative medical assistant, or both, depending apon the area of concentration.

Ense Qu		Conkt	Clesch Hourr
0342	Medical Solvingtony Proceedings L(Medical)	ι	32
0810	Medital Office Practice FOOP Ed.)	4	54
+15.26	Mental Transmology 7 (Medical)	- 2	48
0723	body Stateman and Franction 1 (Rect)	7	48
4278	Beokkeying (Acuga)	2	48
0503	Personal Emietopraent (Pers, IJ.)	1	24
AU 58	Discusses of Marci Medicale	٤.	1:41
0.807	Psychology of Pluman React as CT (Psychol	2	45

Communication - Comp 1 (Commu-0631 3 Je 0157 Medley] Bookkeeping (Accig) 4 48 0810 Medical Office Practice II (Off. Fd.) 5 24 Steriocal Laboratory Provoducer II (Medical) 2 84 0522 2 Medical Terratorskegy II (Mosfical) 48 0817 Body Streeture and Function II (Brold ž 36 0621 Medical Typing (Off. Ed.) 3 3h 0358 Justification (Admini-2 36 Third Quarter 0719 Speech Comp. If (Comm.) 1 36 0957 First Aid (Safery) 1/2 74 0713 Medical Terminiology 211 (Medyag) 24 -2 0145 Medical Office Manggerton (Admin.) 1/212 1376 Pharmatology (Medical) 24 1/2Psychology of Human Relation II (Psych.) ·JJ /0 4 % 0525 Sciumar I (Med.car) 172 12 0681 Supervised Climical Experience 1. M.A. (Medical) δ. 180 Eventh Querter 0529 Settimer II (Medical) 7 12 0772 Supervised Chinesi Experience [1] M.A. (Medical) 336 16 0339 Medical Legal Law (Law) Т 12

Second Quarter

OCCUPATIONAL THERAPY ASSISTANT PROGRAM

The Occupational Therapy Assistant program is one year in length and consists of four twelve-week quarters, leading, upon successful completion, to a diploma. The program includes classroom costruction and clinical experiences which are provided concurrently at Kirkwood Community College and through local and statewale conperating medical racificies.

Students completing this program will be eligible to work in hospitars, turking bontes, needed health clinics, health centers, and reliablication centers under the supervision of a Registerod Occupational Therapist. The work includes applying crafts and manual acts, and infer renabilitation activities, which are designed to assist handhogpped individuals.

The program is approved by the American Occupational Toorapy Association, students who successfully complete this program are eligible to become Certified Occupational Toorapy Association and members of the American Occupational Theory Association.

First Q:	m-fe ·	Grahi	Clock Hours
0723	Body Study precand Function (Skald	+	45
0214	Psychology for Occapational Therapy	-	4.0
0205	Predictory of Harman Kelations	4	50
0181	Origination to Occupational Therapy (Thera)	-	36
0951	First Aid (Safety)	:	24
1031	Printect Lab (2hari)	2	12
0344	Medicand Skills I (Thera	÷.	120
1080	Introduction to Medvat Science (Med.)	4	-60
Second	Ouncer		
1627	Ceramananon Skitiv I (Corano)	3	36
0559	Finenen and Usafunction (Ther.)	ŝ	72
0007	Name Growth and Peystopuscot (Biol.)	5	40
0145	Interpersual Relations (Psych.)	3	45
1047	Pooper Lab (21.A. (Ther.)	Î	24
0133	Media and Skits II (There)	3	(20)
Third Q	Manton		
TOAS	Medical Componencements (Company	Э	16
0914	Managen and of Phys. Dis. Cho. Cond. Otherst		60
0825	Algragopt out of Pastelio youtgl Cip. Const.	<u>.</u>	
	("Hites,") No. 1997 - Anna anna a' Martala taonn an	-	63
0274	Periodiples and Province of Rehabilitation	5	
	ilher,i Diseasatat interation	2	22 12
1047	Project Kala ("Lite:) Other a Tage state O F a 1		12
14,007	Charas Experience O. E.A. 1,		
02377	II, at the second se	3	16.5
1221	III . There:	2	150

(This clime): period extends one week into the summer quarteral-

Footb Quarter

640a°	Cfinical Typerience O.F.A. I,		
0487	II. or		
1231	III (Eber.)	3	590
04060	United Typeries (e.D.T.A. L.		
04872	11, og		
1221	III (Ther)	ч	[5.]
0352	Semipor	2	1 0

ORTHOPAEDIC ASSISTANT

The Orthopaethic Assistant program is a two-year course consisting of as non-securive twelve week quarters. Theory and practice will be integrated and concurrent during tas program. Classroom antifabricatory pathities are provided by Kirkword Community College, while macrical experience is choosed in selected hespital structures. The orth-psedic assistant, usually a man, is trained to work with the orthoppedic surgeon in the entergency room, east room, operating room and other hospital areas, as well as in clanes and private offices. His duties, which are performed index medical disortion, include preparing and maintaining the surgical equipment of the orthopedic department, assisting the orthopacoic surgeon-making and applying plaster lines of body casts, setting up fraction and suspension equipment on wards

Kipkword Community College grants an Associate of Applied Science degree to students whill successfully complete this coupse.

A. . . .

-53

Fint Qa	with	Creder	Clork Hours
085.2-2	Situan Anajomy and Physiology 1 (Biel.)	4	6.6
1366	Settoringtony to Medith Cline and Personal Relations (Med.)		60
3085	I merpenty Case (Med.)	j j	60
01.1.0	Plaster Casing Techaipies (Med.)	4	96
.,,	(General Education one)	4	48
Second (Quarter		
3044.2	Human Anatomy and Physiology II (Biol.)	4	60
0464	Orthopsedic Conditions ((Med.)		48
1060	Introduction to Methical Science (Med.)	4	60
Uo VA	 Supervised United Experience O.A.1 (Med.) 	4	48
	(General Influezhon-ens)	4	48
$Tions Q_{2}$	ng#127		
1355	Integrated Sowhen 1 (Sub)	4	ēΨ
0464	Orthoppeder Carabians II (Mod.)	4	48
0713	Operating Record Tachniques (Med.)	٦	60
0594	Supervised Clinical Superjeads D.A. H (Med.)		2)h
	Olomeral Islashtjan 1) Optimuzi	.ì	49
Aburth ((norma		
1081	Introduction for Physical Therapy.		
	Orthonics, and Providence (Thera)	4	6.0
1981	traction Techniques (Med.)	- 0	60
0594	 Supervised Climical Experience O.A. III (Med. 		216
	(General Education 1)	4	48
Fifth Qu	up/07		
1367	integrated Science II (Sci.)	4	60
(053	Office Procedures (Off, F2.)	2	36
0591	 Supervised Chnical Experience (), A, 1V (Med 	16	21.6
	(General Education-1)	4	48
$Sett Q_{0}$			
0794	Supervised Cut call Software Och, V (Med.)	112	380

PRACTICAL NURSING

54

Practical Nersing is a one-year program consisting of four, twolve- week quarters, and leading, upon successful completion, to a diploma During the first quarter, students speed an average of twenty hours per week in the classroom and twelve hours in cland. In the third and fourth quarters, students will be in the cland area twenty hours per week and six to eight hours in class. The last two weeks of the program are a transition period, during which students are in the clinical area for thirty-two hours per week, and eight hours in class.

Clinical experience is obtained by students at Mercy Hospital in Codar Rapids, the American Robaliditation Center, United Cerebral Palsy Center, Cedur Rapids Public School System and other approved medical facilities

Graduates of this program are qualified to take the (gensure examination given by the lowe State Board of Norse Examiners.

"IT ere are two divises strengthannually, March and September,

First Q.	2.7747	Credit	Clock Hours
0723	thely Structure and Equation (Pieta	5	48
0323	Personal Vocational and Community	-	
	Relations 1 (Surs.)	3	24
0515	Normal Norganeh and Dasi Therapy (Nors.)	ذ	48
0573	Fymily and Lafe Sour (Soci)	9	34
0595	Annimary condition of Medications I (Nurs.)	5	36
0872	Function consists of Practical Nursing FUNursal	6	24
1394	Spelling or ontail	L	12
0118	Chan P.N. LiNnes I	3	12
Second	Gaurter		
0478	Case of Adult Patiena EcNorsa	6	17
2398	Administration of Medinations II (Nuts)	- j	24
6407	Fundamentals of Practical Nursing II (Nurse)	9	16
24146	Clinia Medical-Sargical Nersing		
	P.N. II (Mus.)	38	72
The d Q	and the		
0587	Cate of the Adult Patient II (Miss)	4	40
0567	Nursing Care of Alchreet 3 (Nurso		15
0336	Survey Cars of Morties and Infant (TrMn.).		ν,
3413	Clinic P.N. GI (Nurv.)	21	

Fourth Quarter

0i 10	 Nursing Cace of Mothons and Intents II (2) 	9035.) I	1.2
0022	Persecut, Vocumental and Community Re-	lations	
	II (Nu2s.)	1	12
0767	Nucsing Cate of Children II (Nurs.)	1	12
14)4	Clinic PN IV (Ners.)	27	106
1539	First A.d, Diseases, and Community Health Nursing (Nots.)	3	36



Trade and Industry

ARCHITECTURAL DRAFTSMAN

The Architectural Draftsman course is designed hasically (i) prepare as undividual for entry employment as an architect's utfloe. Normally, this involves the drawing or redrawing of gians, elevations, details, plumbing, electrical, and mechanical layouts. Attention is given to accuracy, nestness and proper drawing procedure. The drawing is permarily of courserved redrawing of bonces. The total course is four twolve-week quarters or 1,440 cleck incurs, and teads, npm videessful completion, to a diploma.

Farm Qu	arlez	Greift	Clock Houri
0924	Architectural Draffling I (Graph)	:2	288
0023	Basic Mathematics ((Math)	3	36
0529	Construction Materials (Constru)	3	36
Service	Querter		
0090	Arcoloccurst Orafiling II (Graph.)	12	755
011	Hasie Mathematics II (Muth)	3	30
95.34	Construction Methods (Constru-	3	36
There	2001 (M		
0184	Acaligned at (a) Drafting III (Geaph)	11	264
0301	Related Disc places (Graph)	1	24
1377	holymphop (Choster)	1	36
1381	Presentations (Constr.)	2	26
Four A	Quarity -		
0278	Architectural Draffing IV (Graph)	14	312
0259	The Profession (Psychia	L	12
6627	Canoplasseation Skills I (Comm.)	3	46

AUTOMOTIVE COLLISION REPAIR

Automobile collision repairmen are employed in body and fender shops, dealerships, and garages with repair service Other employees are trocking, taxicab, bus companies and automotive manufacturers.

Those completing the ocurse will have hod the total range of shop processes from the damaged vehicle to its restoration as it was originally. They will be able to use hydraulic jacks, taris, air and electric grinders, satisfies, buffers, drifts, panel cutters, welders, totches, paint gups, damage dozers, alignment tools, and specialized hand tools.

The Karkwood program extends over three twelve-week quarters for a total of 36 weeks, and leads, upon successful completion, to a diploma, thas periods are six hours periods, five days per week, and republic severs and cas-failt hours perwesk of related anatraction. Cark

	Hours
Shop (we soughtly processes and responsibilities	10
Safe and one of equipment	40
Auto body convituence materials	25
Metalworkley	500
Filling (look and pays(a)	103
Weitding	50
Chassis woll body shell	200

	Glass and crim and upbolktery	1.50
	Propagation and referrishing	300
	As contents and electrical	50
	Digity to shame relationships	16
	Shop management	10
	Suop responsibility	5
	Exampling	20
		Credit.
36.26	Collision, 155 I (Mech.)	19
Qui j	Collision Related I (Mech.)	۲
19934	Callisien LiS II (Ofealo)	10
u93a	Collynen Related II (Meele)	5
66991	Callision L25 III (Mech)	11
11937	Collision Related III (Meele)	۲,

AUTOMOTIVE MECHANICS

The Automotive program is planned to provide four quarters of basic auto mechanics for post-high school age students, it is designed for the student who wishes to become a first class auto mechanic, with training in a wide variety of organized learning experiences. Class periods are six hours per day, five days per week. Successful completion of the program leads to a diploma.

Due to the complexity of the modern actomobile, and the variations in pickes and models, there are many opportunities for ingenuity and exploration. Students encoded in this program spend 75 to 30 percent of their time in class form and laboratory instruction, and the balance of their time in one of lowa's largest and best equipped automotive shops.

Jududed in the corractions are the following training areas:

	Clock
	Hours
Snep practices, safety and phath	40
Service station procedures	90
Brakes	
Front-and service	90
Actamotive electrical system	9.9
Pael system and fuels	50
Engine testing and troatile shooting	214
longing rebuilding and maintenance	2040
Catch and transmission service	60

	Automatic transmissions	96)
	Drive line service	- 30
	Body service	10
	Welding	30
	Dynamingration	30
	Advantend bring up and stitugion control	60
	Air conditioning	30
	Specialization	1.80
	Customer relations and employee employ re-relations.	30
ffearse	distriptions listed under Mechanics (
		Ocuit
6493	Auto Machanica Lub I	1,5
0935	Auto Mechanics Related I	4,5
41939	Auto Mechanics Lab II	7.5
4940	Auto Medianics Related JJ	7.5
(Mail	Auto Mechanics Lob III	7.5
1194.2	Auto-Mechanics Related III	7.5
	tea a fins envine l'actigata (11	·
1343	Auto filschooles Luig IV	7.5
1.139	Auto Mort anto Related IV	7.5



ELECTRONICS TECHNOLOGY

The Electronic Technology curriculum consists of two programs. Communication Flectronics and Electronic Engineering Technology. The Communication Electronics program is oriented toward the fields of radio and television broadcasting and servicing. The Flectronic Engineering Techhology program is oriented toward the scientific approach and is intended to educate the student to become an engineering technician or industrial technician.

COMMUNICATION ELECTRONICS

Successful completion of this curriculum will prepare the student for a career us a test reclassion, broadcast engineer, nutio-television serviceman, contenential sound technician, two-way radio technician, and many other types of technician compations. The course length is four twelve-week quarters, and leads to a diploma

Page 21		Crieda	Gork Hours
Fina Qi			
1391	Incoduction to Electronics	. 2	6
0395	Electronic Circuits 1	10	26
1359	Fulbrizal Mathematic IC (Moth)	.1	a –
0154	Flectionic Shop Methods	1	1
Second	Quarter		
0485	Electrony Circuits Li	7	1.5
1405		4	
(627		4	÷.
(710		ý	15 7 8 5
Third Q	982° 697		
0123	Telecismu I	51	17
1395	Brotadiana Systems	ŝ	
041.)	Contartination Electronics (4	5
Francis	Qhan		
1375	Fundlish of pg	5	12
01613	Contra allocation Electronics II	5 5 1	12 9 1 5
1.379	It an essibilitations (Off. Ld.)	i	i
0810	Lelevisien II	j j	- i

ELECTRONICS ENGINEERING TECHNOLOGY

The student successfully completing the two years of study will have the necessary skills and knowledge to secure an entry pration as an electronics technician in any one of ittany industries. The course length is six twelve-week quarters, and leads, open successful completion, to an Associate of Applied Science degree. The support quarter between the third and fourth quarter is set sucle for en-the/inh training in an approved industry when possible.

			Ovack
First Ou	acter	Checkle	Hours
1.89.8	Introduction to Electronics	1	4
0.95	Electric Uncures i	÷	13
0519	To he of Mathematics 7-6 (Math)	4	
1397	Side Ruly	i	2
0527	Communications Shills 3-b (Central)	3	5
Second e	Assee		
1485	Electric Curcuits II	5	ې
0537	Electronics L	4	6
0613	Technicz' Mathematics II-F. (Math.)	4	6 5 5
0719	Communication Skills (1-5) (Comm)	4 3 3	5
0302	Psychology and Heatin Belations (Psychol-	3	5
Thend Ga	arter		
0693	Electronics II-ly	•	8
0813	Communications Electromax	h	- LÍ
0892	In gridal Electronic Disourg	2	6
(8257	Teological Mathematics III E (Math.)	4	× .
Fourth G	uer(sr		
0704	Transistor Circon Analysis and Design	6	10
0386	Industrial Electromics	ż	
0920	Apol ed Passars ((Pays)	2 4 3	3 5
0727	Transferat Coccuit Analysis	3	5
1401	Industrial Television Systems or		
1405	Audio Systema	÷	7
Fifth Qu	w 6"		
ukaŭ -	Network Analysis and Design	;	5
61.26	Pulse and Societing Circuits	N.	5 7 5
0235	Applied Physics II (Pays)		ŝ
1595	American Austrations (Pol. Sci.)		1
0201	Technical Risense	-	•
	Television Opecit Analysis an		

1409	Mediolatian and Detection Systems	đ.	10
$S(x) \in Q$	ADTET		
0136	Advanced Electronics Problems)	.5
0636	Design Project	2	
0811	Economic Reporting		.5
	Technical Elective L		
1412	Fransmission Systems or		
6306	Meetsonic Computers	li li	S
	Technical lifes (see 2		
1333	Instructionalism or		
6582	Microwave Systemy Analysis	ч	9

ADDITIONAL RELATED ELECTRONICS COURSES

		Credit
1085	Transistor Gatait Analysis and Design First Half	3
1389	Transistor Custifi Analysis and Design Second Half	a

GRAPHIC ARTS

The graphic arts program is one year in length and leads to a diplome. It introduces the student to the hasic fundamentals of the graphic arts industry, hegitting with the history of graphic arts, processes, functional typography, letterpress operations, lithography, layout and design, mathematics and burdery operations.

Advancing through the program, the student will learn more about hithography including camera and darkroom, photocomposition, paste-makeup, theory of color, stripping and plate-making, and advanced 'efferpress and offset presswork. In the final stages the student will become familiar with management problems, estimating, production control, plant organization, and layons, industrial relations and related technical data

	ζ lock
	Hows
Origination and Survey of Graphic Arts	24
Beyony of Graphic Arts	- 81
Gundamentals of Depoprophy	114

	Stackup and Proof-coding		36
	Math for Printers		24
	Cayoot and Design		3.0
	Paper, onk and installargy		23
	Inflorpress operations		26.5
	Contry-using machine		30
	L-Douggaphy		182
	Bendry, and finishing operations		18
	Distay of color		24
	Lithographic comerci		102
	Lithographic presswork		102
	Stripping and offset planen remy		61
	Cold type processor		58
	Publication marking and makeup		45
	Prinking management		
	hstanuting		30
	Finduction Prablems		- 30
	Plant organization and layout		- 30
	Industrial relations		18
			18
	Applied athography and/at terre, pross		234
D. C.Irse	descriptions included ander Graphics (
		Credus	
1416	Gophi, Arts Lab (10	
(36)	Graphic Arts Related 1	5	
1414	Graphic Asia 251-11	10	
1065	Graphic Asia for a fed 11	- S	
	•	-	
1473	Graphic Arts (1) (71)	lu l	
1369	Cruphic Arts Related III		
		•	
1267	Couples Arts Lab IV	μL	
1372	Goophy, Arts Retained av	13	
	-		

MACHINIST

The module shop contribution is planned to prepare students to become skilled machinests or machine tool operators. Related instruction is provided in mathematics, blueprint reading, forcem relations, and communications. Students also study heat treatment of various metals abother basic metalangical procedures. They have the opportunity to learn the proper care and use of measuring.

They learn care and use of measuring and layout tools, and develop skills on versions production machine tools. The day program involves 1080 clock hears and 45 credits. The evoluting program contains the same course content, with classes meeting 920 hears for 48 weeks. Both programs load, upon steepessful completion, to a diploma

		Machinist (dav) Clock Hours	Maakining . Clack b	
Mathem	natios and Blueprint			
1500		200	Total o	0.60
Salaty	procedures	40		
	-		Dav	ärendig
			Credits	Creats
	Measuring tools		69	
	Bonch week		55	
	Crill press		49	
	Sawing		40	
	for the operation		250	
	Patricut larlot		23	
	Mulling machine		208)	
	Gunding		80	
	Special production in	aphenes	40	
(Coms	e descriptions included (anufa sturin,	4 i
6757	Machimist Lab d		-	6
0943	Maciumist Related (8	4
0944	Machinist Upp II		8	6
094.5	Machinist Related II		ì	ŝ
0946	Machaest 1, sty 111		L:I	6
0947	Machinest, Related 21		5	-Î
0.948	Machingst Lab IV			6
0449	Machinesi Rejerat 19			+
4450.4				

MECHANICAL DRAFTSMAN

Those completing the flarty six week course will have the necessary knowledge and skills required to prepare clear, complete and accurate drawings of medianical devices and parts. They will be capable of redrawing, making revisions, working from sketches and verbal instructions, and performing any necessary mathematical computations. They will be able to use the basic drafting equipment and tools and will be acquainted with the more common manufacturing processes.

Kirkwood Cummunity College awards a deplorate to students successfully eccoplering this program.

		CMCS
FD & Quarter	Gree	ht Heavy
(0333 Mechanical Drafting 1 (Graph)	6	180
0023 Basic Mathematics 1 (Moth)	5	60
8637 Applied Problems I (Graph.)	2	siú
6013 Manufactoring Processes (M. & M.)	2	50
Second Quarter		
0437 M73 onioal OrafNing D. (Graph.)	li –	163
D115 Hade Stationalise II (Math)	5	64
D/26 Applied Pod/emy II (Graph.)	2	60
0297 Munofacturing Materials and Methods (M-& M).	2	60

Third Overlag				
USLR	Machanity Disting III (Graph)		180	
0208	Basic Mothers (128111 (Math.)	5	60	
0570	Applied Problem (111 (Graphy)	1	60	
08.1	Contactumention Skills 1 (Comm.))	60	

MECHANICAL ENGINEERING FECHNOLOGY

The graduate mechanical orgineoring technician will have obtained a high degree of ability in analytical problem solving as well as the ability to mansfate his own and others' thought into graphical representations. A thorough knewledge of the mechanic and manufacturing processes will allow him to follow a design to its conclusions in the actual manufature and ultimate production of a special tool or product. The design option provides the student possessing mechanical and mathematical advandes with an unlimited opportunity for work in research and dovelopment in a wide range of industrial endeavors from face machinery to declouries.

Mechanical Fraginewing Technology is a two-year proposiof post-high school education with a current objective. It leads to an Associate of Applied Scheme degree. The program consists of an quarters, each of twelve works' length. The currentian includes positival experience in the drafting room, shops and laboratories but is more heavily weighted rowards technical studies in the classroom.

$i > x_i$ (h	di /2)	Crain	Clock Heids
1637	Companying that Still Children.	:	501
0337	Lug neering Drawing L Scraph.)	Å	1.20
11519	Facinitial Mathematical (Alara)	3	515
DOI 3	Manufacturing Processes 1 (M. & Stat	2	12
0224	Englossing Computations Mathematics (C	51	
	(Math)	:	AX
Served.	Quarter		
0719	Communication Skills U (Con M.)	3	501
040.0	Engineering Drawing U (Greph)	2	3.10
0802	Technical Mathematics (C) Mathe	5	6.9
01.08	Manufactoring Processes EL(M. & M.)	.:	22
0525	Frighteering Competential's Mathematics II		
	v Matlet		48
Third Q	hur/er		
0057	Explored Mythematics III (Math)	4	45
1577	Engineering Drowing off (Gravity	3	120

1885×	Srain's (Engin.)	8	220
0455	Hydrahes (Mech.)	3	72
100078 0.002	Quarter Nucleology of Haman Relations (Psych.)	Ŷ	60

1.1012	avenues of remain recipions (1946 r)	1	· · · ·
9213	Strength of Waterials I (Engin.)	4	60
0778	Renematics of Mediaznisaix (Fingin.)	-	120
0824	Dynamics (Engla)	2	120

Fiph Q	uncler		
0598	American Justifu Echy (Peli Suit)	3	30
0304	Electrony (Electr)	2	50
1335	Strength of Materia's II (Fright)	5	- 50
0008	Machine Design (Engin)	-	144
0732	Design Problem's F (Engin)	2	50
Sinth Q	neur (en		
0811	Computation Skills 271, Technical		
	Representing (Copyring)	ч	501
11002	The full share of functions of the second se	6	

	Responding Columns	1	201
0885	Plan, highbard School	6	- 72
0150	Frighteeing Materials (Soph)	2	45
1331	Design Problems If (Graph.)	6	·-4
0508	Industrial Organizations (Society	3	36

WELDING

The welding program consists of three twelwi-week quarters leading to either a diploma or a certificate. The first quarter is centered abound motallic are welding and exy-acetylene cuting. Related instruction includes bloeprint reading and shop math. This quarter is to prepare three completing the course for employment as weldors in traductly using the metally, are process.

The second quarter instruction period is designed for those wayting in continue acquiring skills and knowledge in the field of welding by the starty of the more advanced and specialized production jobs using the tig and mig welding processes,

The third quarter of related instruction involves tas study of the technical aspects of weighing, graphic skills, communication skills, much, and shop supervision. The set-up and use of production machinery, welding inspection methods, and a student propert will be ratigation the weighing problems lab. This quarter is to provide the students with the background beeded to obtain work in industry as a supervisor, methods.



man, inspector or specialist weldor, or in the field of welding value.

A student may take one, two, or three quarters, depending on his needs and abilities,

			Caxk
- First Qi	sarter Metallec Abe Budding	O adG	Hours
1754	Basic Are Welding	5	!44
1347	Related Instruction, Basic Arc	5	36
1351	Hopey Industrial Arc Webbing	5	i 54
1336	Related Josta retront Reavy Ltd, Arc	3	36
Simont	Quarter - Constituent Pelalog		
1361	Oxyspectyleper Welding	4	108
1368	Selion: Weak op	1	108
1372	Secon Auromatic Welding	,	54
1376	Sheet Metal Arc Welding	1.2.3	.16
1099	Special Are Welding Techniques	3	1.5
1084	Related Instruction: Adv Welding Proc.	3	36
The d Q	worter – Specialist Weiden		
.382	Production Machinery	2	56
1392	Welding Inspection	2	56
10.56	Student Project	1	56
.400	Wohing Technology		6.0
1404	Graphic Skills	2	96
0115	Math Basic Mathematics U	2	46
_ 40 <u>6</u>	Communication Skills	2	- 16
1412	Human Adations & Shop Supervision	I.	24

60

APPRENTICESHIP PROGRAMS

The Vrogitiong Technical Division comparates fully with local Building and Construction Trades Council as well as Jung Apprenticeship committees in providing related classroom instruction (c) approximately 2001 indefinite approximes, revolving six apprenticeship programs.

Represented in these programs are carpentry, electrical, milliorigat, plumbing and standiting, sheet metal and tool and die. All are equal opportunity programs, Classes are held in local school buildings and in Kirkwood facilities.

During the terms of apprenticeship, each apprentice receives training and experience in all branches of the trade. Apprentices also receive distruction an sefery practices and reducipaes as applied to all machinery, materials and substitutes used in the trade during the apprenticeship, both on-the-job and as a part of the related instruction correction.

Students interested in encolling in these programs should contact the Cedar Rapids local union office on the Coordinator of Adult Vocational Estimation at Kirkwood Community College.

CARPENTRY

.....

The term of apprenticestop shall be not less than four years to be divided as follows. Sp001 hours of work experience and not less than 144 hours per year or related instruction

Suggested Schedule of Work Processes for Carpontry Appropriates:

	Approx. Hours
Rough Fraining (floor, wall, root, scalle thing-	
thouse and heavy construction?	1,000
Lo et Beildeg (fleor, term, we Certamin, stylis,	
configuration of the second seco	1000
forence Emisting (apole about of data and window)	
trun, futing and sanding doors and windows.	
Application, of baseboards, construction and softing	2
class, stair work, etc.)	° 1500 -
Acoustics and Deywall	7 (EIO
Exterior invitation	5030
1 1965.5	300
Figures (providence) for the cabinet insking,	
to twoght, begyv nucler construction	800
Contract are of motivated workdwarding unclinity	\$30
Welding	500

The related asstruction will gentam to the visity of mathematics related to the trade, blueprant reading and estimating, bustney and ethics of the trade, etc.

ELECTRICAL APPRENTICESHIP

Fig. term of approximation shall be not less than four years to be divided as follows: 8,000 hours of work experience and pot (asy than 144 hours relayed of related instruction.

Suggested Schedule of Work Processes for Electrical Apprentices:

Residential - wreing of rostdenses, duple es- and wreif apartment buildings and oscessivy (http://wreif.ac.	480 -	2,000
$\begin{array}{llllllllllllllllllllllllllllllllllll$	4000 -	7,700
industrial solving of all industrial buildings and equipment; the industriance, report and alreptions of the series; and pecessory shop work and preparation.	410	2,000

For additional information contact: Lowa State Coordinating Committee, Ideotrical Apprenticeship and Training, 2015 (ogenor), Dec Moines, Iowa 50512,

SHEET METAL

The term of apprendicestap shall be not less that four years to be divided as follows: 8,000 hours of work experience and not less than 144 hours per year of related instruction.

Suggested Schedule of Work Processes for Sheetmetal Apprentices:

Ventilation and an conditioning reptilals	1000
General sheet to ctal work	1000
Hutel, restaurant, kthdan, Apropheric	1000
Industrial soful metal work (blow piping,	
indletting systems, etc.)	10.06
Warns air furnale und heatu gloguipment,	
servicing succe	25.9
Operation of hand posts and power much may	560
Hardburg of subarrole marcrials, see has please	500

STEAMFITTER-PIPEFITTER

The arm of apprenticeship shall not be less than five years to be divided as follows: \$2000 hours of work experience or more and not less than 10? hours per year of related instruction.

Suggested Schodule of Work Processos for Steamfilter-Pipelitter Apprendices;

	SCOOL HOWY
 Installation of east iron pipe, copper tube in Interded pipe. 	rul
Installation of residential and contineraial	
fixtores and equiptions installation. Proper use of tools and equipment and safe:	4.9
Assembling, variang, program and calking	
nonzonial sur pige journs.	
 Weiging - law calor given and little gas, local and curring and hybrid non- 	ire
Sefugeration Land II.	
Planthog dramage and installing house drap deal at bioments.	•.
Lastal'anon of he liding sewer	
Installation of building water system,	
Ozsipuping nestallation.	
East work.	
Care of tools.	

The related instructive will portain to mathematics, bluep.in) reading, drawing, heating, instrumentation, pipe bending, welding, science, oneumatic controls, etc.

IN-PLANT TRAINING

An intensified In-Plant Training program offices training courses for both management and employees at businesses and industry logited in the seven counties,

ON-THE-JOB TRAINING

Employees are trained at actual work stations under the supervision of comparty personnel. This type of training may be accompanied by job related instruction either during or after working hours in company or school facilities.

Totel Hours



course descriptions

SUBJECT AREAS AND THEIR KEY ABBREVIATIONS

The following is an alphabetical listing of subject aceas with their key alpheviations, where needed, in parentheses.

The course purplets are random numbers and do not imply any sequence. The key abbreviations and course numbers are used on college transmights.

The following symbols have been used to indicate course aredit.

H = High School D = Developmental V = Vecational P = College Parallel Transfer

The credit value of each course is indicated in quarter hours following the title of the course. Where possible, the description also indicates the number of lecture and lab sessions involved. Thus, (3/1) indicates 3 lectures and 1 lab session. An inegular course rength or perangement is also indicated. Thus (3/2-7 wks) means 3 lectures and 2 lab sessions for 7 weeks. Credits carried in developmental concess, which are not also college parallel courses, may not be applied toward an Associate Degree in Arts or Sciences. Credits may be applied toward certificates and diptomas at Kirkwood Commenty College

Accessing (Access) Administration and Management (Adma.) Act (Art) Biological Sciences (Biol.) Chemistry (Chemi) Connuction (Commers) Construction 40aA9(1) Data Processing Histo Put Denist (Den.) Drama i Dramali Driver Education (Dr. Ed.) Economics (f.com) Entransity & Ricctranics (Elect.) Engineering (Engin.) Feneign Languages (F. Lang.) Geography (Geogra) Guobas (Graph.) History (That.) Home Economics (Hame Ec.) Law-Law Enforcement/ Correction (Law)

Library Services (Libr.) Literatore (Lit.) Marketing (Mktg.) Mathematics (Math.) Mechanics (Mech.) Medical & Songical (Med.) Metals & Maroelsotuning (Met.) Music (Xorga) Norslog (Netrog.) Office Education (Off. Ed.). Personal Developping of (Popel D.) Philosephy & Religion (Phil) Physics/Astronomy (Phys.) Political Science (Poli, Sci.) Pollution/Environment (Poll.) Psychology/Education (Psych): Safety (Saf.) Science (Solut Socialogy (Soc.) Speech (Sp.) Flierapy (Ther.) Welding (Weld, I

ACCOUNTING (Accts)

Adult

0529 BOORKEPPING 1 11-3 Includes fundamentals of productions as applied to modern business. systematic recording of business transactions, use of journaux, records, st depends to illustrate beakkeeping cycle from original entry to annual balance specify (4/0).

0609 BOHINKTOPPING CL 11.3 Studies gos al poemals, depretation, but dobts and second exposes and partnerships (200)

Vocational-Technical Division

1438 ACCOUNTING FUNDAMENTALS 1 **V**-5 timodulesy the complete accounting cyclo for pursonal service and merchastising enterprises. Application of fundamental principles overed in laboratory practice, 15/00

0580 ACCOUNTING FUNDAMENTALS II v.a Continues Accounting Fundamentals I with expansion of the accounting for purchases, sales, inventiony, prepaid expenses, long-live-2 system and accounting for owner's equals (\$20) Proong Associationg Endo mentals [

0683 ACCOUNTING FUNDAMENTALS III V.5 Using new Accounting Eulocymentals II, with emphasis on corporate argentzations and introduction to cost accounting, (SRD Prezent-Accounting Landspreamers II.

0773 ACCOUNTING SURVEY I V.1 (Automating for the data processor). Covers basic concepts, definitions, techninology, rechniques, and characteristics of accounting and occurate ing systems as found in medium/large inguitizations. Attention is given to the functions of accounting as they much be performed by data processing systems, (0)00

0864 ACCOUNTING SURVEY [1] V. 8 (Cost accounting and thrankail control for the data processes) burbades electifications of costs area control, standard costs, hadgebog, deprecution, thereast report or and neorogenial use of accounting bitarmation as frateal (a producing any regaring Sars, Special (Orbitus) given for the of computatived data processing systems in performing succenting, from thouse (5/0) Protect: Accounting Survey 1

0310 ACCOUNTING LABORATORY V-0 N Provides the student with the opportunity to secure assistance to his accordinging course work and the previde here with the opportunity for more an liquity study. Alloc any need by program,

0536 ACCOUNTING PROCEDURES Studies purpose of audit, relationship of auditor and client, kinds of audits, consideration of audit objectives and standards. Reviews internal controls and examination of accounting systems (4/0) Proreg. Principles of Accounting IU.

V.1 0104 AGRICULTURAL TAX ACCOUNTING Studies federal and state income fax faws pertaining to individual and agricultural business enterprises. Related problems and this forms are part of this course, (2/2)

15.9 MANAGEMENT ACCOUNTING ъa Presents inguagement's viewpoint on cost costway, budgeting, band clow, and alatement analysis. (3,4/01 therequilingtructor's Approval

 $V \preceq$ 0253 OPPICU ACCOUNTING Provider understanding of basic accounting concepts and procedures. factules the recording and transchars, preparation or through statements, and payroll problems, a practice set will be completed. í s íu i

050) RETAIL ACCOUNTING V 4 Introduces principles of accounting from a manighral viewpoint. Cost enstrals, hudgets, financial analysis and Grennish goides to profitmaxim operations are included, (470).

0528 BOOKKEPPING V-2-4 Studies (initialities of book coupling as applied to modet), between systematic to ording of business reguszeriens, use of journals, records stypeneous to illustrate brockeeping dyde trivin original only to annual Folgevie shoch (CP4/O).

0187 MEDICAL BOOKKEEPING V.4 Covers principles of backkeeping from the mewpoint of the medical assistant. Areas of study include journalizing, bushing to the ledger. taking a trial balance and preparation of finantion statements, special modical office problems are investigated. Areas of study include patient pilling, preparing for audits, pep board accounting, use of Calu processing services, and use of credit bureau materials, (4/0) Proreq. Donskeeping

0243 DENTAL BOOKKEEPING Covers basic principles of buckkeeping from the viewpoint of the dental assistant. Areas of study include journalying, posting to the ledgers and taleng a trial talance and preparation of financial statements. Special attention is given 16 patient billing, proparing for audits, peg beauting ose of data processing sources, and insurance and tax forms, (3/0) Princip Residence op-

0927 INCOME TAX PROCEDURES. V 3 Training in the propagation of Federal and state meeting the reforms. :3:0;

64

vл

0847 FARM RECORD KEEPING

Desyned to familiarize students with form countries excounting involtories, valuance, each form, networks, depreciation, and different types of second systems, (5)(0)

College Parallel

0947 PRINCIPLES OF ACCOUNTING 7 P-3 Approaches automating memory and procedures from the business entity concept. Accounting principles covered include understanding the bulance street and income statements, matching costs and reverses, working paper development, and dobtecrofit matchings.

(9733 PRINCOLES OF ACCOUNTING II P.3 burghasizes partnership and corporate actions, weaksheet adjustments and asset value oper (360) Provid Patielpus at Accounting I

98.3. PRINCIPLES OF ACCOUNTING IB P.3. Emphasizes management uses, and studies inconfluction to cast manufacture to any studies of analysis (300), pressure analysis, to algoring, there, and studiented yield studies (300). Press p. Principles of Accounting II.

(0) 26 ELEMENTARY COST ACCOUNTING I PA Relates principles and motifolds of ignidately materials, labor cests, and manufasturing expressions to the bacterian of reports to management, (4.6) Process Principles of Accessioning III.

(11)6 ELF:MENTARY CONF ACCOUNTING II P-4 Emphasizes standard costing and Endpotting (400) Provid Elementary Cert Accounting 1

0228 INTERMEDIATE ACCOUNTING 1 P-4 Inclutes a letter review of accounting principles and a study to depth of costs, accounts receivables, inventories, and other tangible events its un-(4pt) Process Principles of Accounting III

O325 INTERMEDIATE ACCOLNTING II P4 Footbasizes on ongible assets, "relations, owned's equity, and statements from the complete periods, (4/0) Pierosa, Informative Associating I

19428 INCOME TAX P-2 Studies the Federal Income Lax Law. Simplicities is placed on the specification to the suffershild and the single propreheasing becomes, 1970 Process, Puperfollowed Alexandring dis

ADMINISTRATION AND MANAGEMENT (Admin.) Vocational-Technical

1530 - AGRICULTURE FINANCE V-2 Ipolydes orgabil and 08 mMatca to maximizing fatter income, crudit scapes, preparation, new tassecure , edit, and comparation capacities (270) 1293 AGRICULTURE BUSINESS MANAGEMENT V4 Considers problems in operation of the operator of the farm supply center business: types of business organization, scores of capital, management planning, redic control, any entory control, budgeting, and priving, (4-0)

1359 RUSINESS PRACTICES V 3

hoold devide state bookkowping, gundhowag, internativ records, antipisy reanglegyst relations, advirtising, and no shower relations (300)

041.2 BUSINESS ORGANIZATION AND MANAGEMENT V-3

 $\{0,0\}_{0}\in \mathbb{C}^{n}$ is structure, operation and control of a business eigenvalue $(0,y_{0})$ in the y_{0} -invariant planning and controlling, and human planning (3.09)

154: CHECKOUT MANAGEMENT V-2

besches propert, ach register operators and checkent procedures for the modern supermarket. It imprasss is placed on checkes for any, supervision, and control of the checkent function, (2)(0)

1959 CREDIT PROCEDURES V-3 Presents account and scenalogical associated real from a managerial viewpoint, the nation of credit credit instruments, the role of medit an euclement y management of the credit and collection has non-15(i).

0225 DENTAL OFFICE MANAGEMENT I V & Prevents general conservation of the statement and transportent. Work free, supervision, delegation of tasks and heaten relations are covered in detail. (300)

US24 DENTAL OFFICE MANAGEMENT IF V-2 Concentrates on the management of a dental office; receiving patients, telephone near news, appendment control, management of supplies and general office systems. (200 Prepage Dental Office Management 1

0005 ENTERPRISE ANALYSIS

Offers a detailed faith management record program giving index stem in analysis of each undividual agricultural enterprise connected with the faith business, and that enterprise's relationship to the rotal faith pusities U(S).

[N4] ADVANCED ENTERPRISE ANALYSIS V-5 Applies the consequence beyond system to the astal home form and exactly statistics of short our as well as any run, enterprises each as any run much new, buildings, and titler, (175)

(759) FARM MANAGEMENT: V.3. Focuses on the abortics method to memory a factor. The farm "abortation," and the systemical factor, and the students" from factors are used, 0.120.

1535 ADVANCED FARM MANAGEMENT

Applies management we discuss to the form truth over my appealities

V-3

\$1.8

V-3

low, insurance, property transfer, estate plottning, leaves, etc. (2/2).

6298 FASHION BUYING V.5 Staticy principles and methods of successful merchandise selection. analyzing the fashion market, and coping with the problems of buying. Merchandise control and buying azbras of consumes are included, (5/0)

0246 FOOD STORE MANAGEMENT Offers a comorchensive study of problem areas encountered in foodmarketing management. Policies and procedures in retail and white-sile food astribution are considered, and devision indoing or problem solving are practically provided through the use of case protlem situations, (590)

1093 IMPLEMENT BUSINESS FUNCTIONS ъъ Offers instruction in the actual applied functions of an implement business. Lime is sport analyzing successful provides of community implement businesses (3/2)

0058 INSURANCE LABORATORY V-3 Provides practice in completing many types of insurance forms. Inclusive Mudiesovand A.D.C. forms (3/30)

1093 INVENTORY CONTROL. ¥Ъ Office instruction in the server controlling of the operablested parts. toom inwritery. Special procedures and techniques are discussed, (4/0).

1295 AGRICULTORE FOURMENT MANAGEMENT / V-4 Includes practical decision (Paking propagating Age-Business operation). the general largest of constructly atervard form supply facilities, kinds of Agri-Buxness Apapement, storage fabilities, depreciation schedules, money management for alligicity are of this equipment, livestock, feeding. for tilized application, and special purpose equipment, (6/7)

0220 NURSERY MANAGEMENT L V-2 Introduces the bussery industry, wholesale, retail, landscape service, and garden terrise operation, (4.0)

V.2 0316 NURSERY MANAGEMENT II Studies various phases of the industry including plant hading houses. equipidant, and storage of plant materials prior to and after harvesting and sale, (440).

V 2 0407 NURSERY MANAGEMENT RE Covers planting and care of tows, shoulds, and torf including the planting and transplayings, transiting, and training of convential stock. 64800

0147 MEDICAL OFFICE MANAGEMENT V.) Consists of office ediportic mailing services, and base systems of filmp maintanted in method offices, e.g., alphabetic, nomeria, and terminal durit, (170)

66

0818 OFFICE MANAGEMENT Examines in detail the following says is of other consignment; the imposit of automation passificing and planning office work; Controlling people, forms, and machines that do the work; and ereating proper-Isomar relations (5/0)

0501 RETAIL FLOWER SHOP OPERATION 1 W. Introduces the Boost beamsy and studies exceduling from orders parchasing and pairing, and solling floral products, (6/0)

0599 RETAIL FLOWER SHOP OPERATION II V.3 Studies flower shop operation including strengthe and sates, records, parchasing and priving, and terminology (1/0+7wks) Precoj: Retail Fastor: Shop Operation 1.

0699 RETAIL FLOWER SHOP OPERATION III. V.3 Studies the florist business, etiquetti and auto of weithing flowers, Sustants: policies, expediting a floral order, selling, and turninology. (7:0-7wks) Protog: Retail Flower Shop Operation II.

0700 RETAIL MANAGEMENT V.A Studies transported prior tyles as they upply to rotail up, and analyzes the functions of lokaning, organizing, and controlling to relating big to managenal policy and figures relations. Detworkprzkung skills are ceveloped (3/0).

0025 STOCK CONTROL N.7 Studies intersively, the basic muchples of food merchandwing in Suding inventory, stock-targover, and control, (5)0-6 weekst

6592 SUPERVISORY DEVELOPMENT V.S Provides the opportunity to study and upply the skills of supervision and management to thismess. Projects use developed according to the students' specialized in Lovets, 15/0-6 wks.)

Coltage Parallel

0529 INTRODUCTION TO BUSINESS P4 Surveys American basiless and the environment in which it opportes, lightly study in the contaction study, and political collicones and tenness arganization for tiony and responsibilities (400)

CA13 PRINCIPLUS OF HINANCE $P_{1,N}$ Encludes basic methods and principles concerning such topics as divancing, working capital and fixed capital needs, stocks and honos, the marketing of securities and the operations of financial institutions. (370) Pretty Provip exist Accounting III.

0596 BUSINESS INTERNSILP P_{-2} Provides an opportunity to receive practical experience through on-the-fold training in an approved business establishment. Valuable transing experiences are structured by the program coordinator and the training quotsor, (0/12)

W. C

Vocational Technical

0800 TECHNICAL AGRICULTURUI V-3 Studies appliestion of chemicals attachments, up to-date verdoutionprecises and conject (reprise 320)

0890 TECHNICAL AGRICULTURF II V-3 Continues Technical Agriculture (1010)

CO41 AGRICULTURE STRVEY V-2 Offers field top observations featuring surveys of forms and businesses

others tiple, righ descriptions (for the conveys of the first cluster sets as well as employing the others (0.774).

(1) 29 AGRICULTURAL ANALYSIS V-2 Analyzes interpower models and franck of the agricultural industry, (0(2)4)

1501 AGRICULTURE CHEMICALS V-8

Studies use of inservicides, fungicides, rematevides, rodenticales, plant equilators, and internal parasites of lowestock, powery and puts. Types of insterials, the methods of use, storage, and safety incovers to be failured are emphasized with stress black on the stokent developing ability to interpret and to explain to customers the directions for use and the catalions to be observed with the preducts (3/0).

1061 AGRICULTURE SEMINAR V-1 Designed to assess the studeou in noncoging his affairs as an employee, includes "mini courses" on current rooks, (1(0)

[256] ANIMAL HEALTH PRODUCTS V-2 Familiarizes students with products used to control diseases and parasites in ominals and deals with product recondendations, basic principles of disease provention, control, and control and characteries of worthy and government on disease, and cospel from and quaractine of disease, (173)

1529 APPLIED CROP PRODUCTION V 3

Offers field application of practices target in self-selecte, soliterably, and tield error production, driving, the use of demonstrations and check plots on the lower. Compared the four table (2/3)

1526 CROPPRODUCTION ANALYSIS V-1

Analyzes president survive out in the contrast with emphasis on the cost and compared by the different produces (1990).

0762 PARM MACHINERY OPERATION

Features approved methods of operating of term $\mu(a,bdnes,with emphasis on safety, <math display="inline">(1,1,2)$

0132 FMPLOYMENT EXPERIENCE V-6/12

Offers emphayment aroanged to give students practical on-the-jobtraining with an employer of self-employed, (6/30)

1524 FARM CONSTRUCTION V-5

Developes competencies necessary for the construction of a farm huld-og from the planning stage through the construct and carpentry work, to the total electrical wirkog. (5/D)

1534 FARMSTEAD PLANNING AND MECHANIZATION V-2

Obvers analyzing a farmstead, replaining it, and using capitol to applate labor, when producable. The course inductor types of equipment and methods of mechanization, (1/3)

1353 FEED AND FERTILIZER SERVICE V-3 Designed to help students analy eastomer recommendations concerning. Field and feetfliese. New developments in the feed and fertilizer are stopsed (175)

1214 FEED PRESCRIPTIONS V-5

Deals with the technics work of the feed until farm sapply certise where transmissing, and parsing feed topons for customers are produced school on all hoperions to provide specified amounts of outriepts use of feed address, types of feeds to recommend for different classes of these of and for determiniparposes, and appropriate food and drug regulations of the state and federal governments. Alternal we imprediently are considered in formulation feeds. (5/9)



V 2 Develops anderstandings and abilities to crop production, variety selection, contified soul, absolutation of any bisologetheir products, harvesting grain and feed maps, and plant growth formers. (172)

1117 HELD PRODUCTION OF NURSERY STOCK ν.τ Studies charge of a site, using soils study recompass, conservation perhads and the propagation of nutwery stack under field conditions. (273)

V-4 1118 ELEMENTARY FORFST SURVEYING Instudes measurement and volume computation. Forest type a coningand graphic repeating of forest production, (3/0)

0402 COMMERICAL FLOWER FORCING GREENHOUSE 1

Contributes study of lower forcing in the greenbacks including statistion, softe maintenance structure, leating, stee out segurative propaga-(i.e.s, and preduction of various plant variaties, 74/0)

COMMERCIAL FLOWER FORCING GRIENHOUSP II 0489V.1

Constitutes study of flower forcing in the grounboose including citizzione, management, propagation, plant varieties, and the producnon- of plants, (0/4-7) wks.) Prizect Continercial Flower Ferring Greenhouse J

0581 COMMERCIAL FLOWER FORCING GREENHOUSE III V-1

Offers further study or flower forcing in the greenhause, 10/4-7 wks.). Pipleg: John mercial Flower Fording Greenhause II.

1388 GRAIN GRADING AND HANDLING vι Designed to prepare the student to goald grain subunding to the Diried States Grain Standards Acro the sleps to increment preschonersing of

grain through the contactly elevator, the functions performed at each. step to the mesongent of gam, including product scarebonategy (2-1).

1101 GROUNDS MAINTENANCE V-3 Soulies hadding maintenance with the design specifications on parking, walk a shoub areas, and concretements in the landscape to help by out a day go with the greatest aesthelic impact and for infinitum lipkeep. (165)

1284 HERBICIDES V.3Studies use of herbicides in word control, types of materials, the method of use, application equipment, storage and safety methods to be followed. Stress is placed on the student developing ability to interpret and to explain to environment the directions for one and the cautions to be observed with the products (3/2).

V-S institute HORTGOULTURE SCIENCE I. Jpp. ondures, the history of northeologie. An onderstanding of plant relationships structure, growth and the development receiving the understand the technology and industry of horaculture, (8/0)

0825 HORTICULTURE SCIENCE II V.--Deals, with the technology of hosticulture, including startics of soils, enforciclogy, bolumy, landscape cesign, and landscape construction. (1/6)

0718 HORPHOUGPURE SCIENCE III. V-4 Deals with plant materials cleaning analy and management, water management, langtope design, and byour on work alles. H 39

1097 LANDSCAPE CONSTRUCTION V-2 includes layout and execution of headstape plans to copying the tise of postabilitinal equipment, and land leveling, solving word, modupped, (1/3)

V. 3 1094 – LANDSCAPP DESIGN I Develops uncerstanding of the function of the lands apply pish showing the types and ineration of vegetation for the lot and inforce (178)

(110) LANDSCAPE DESIGN II V-3 Javolvos student in erectiture of a legislamy design for the beautified (nor of a specific area builded in the design are the estimatory, vehicle, and some of any the execution of the design (1/b).

JOG7 LANDSCAPE DRAWING ν3. intraducty pictorial dials og (souteta), and parspective drawing showing sides of the object in one drawing. An interfared lettering is used throughout the course, (1/5)

1268 LIVESTOCK NUTRITION V.3 Prevides basic information medica by processors, salesment, servicement, and furners in meeting the feed requirements of livestock - classification. of forages and grains is freeds, the metrients needed to previde for growth for tivescotk and producy, feed of ons, feed analysis, biological principles and body processes of similarity (7/3).

V.0 1519 LIVESTOCK HUSHANDRY Applies acoust further by the poultie management reconcises escaped for success in the livestick undersity. Stresses alvestick feedung, manygement, and discose and parasite control. (1/31)

1828 APPLIED LIVESTOCK HUSBANDRY Applies the livestock out often and pronduction theory ranging to the fall and wrote courses, as well as other lovestack husbandry procedes. The home farm a talyor form late are used extensively (11/5).

1715 APPLIED NATURAL RESOURCES V.X Studies specific outrial optimizes as to employ day cate, and convervation as as agricable by student intervals (203).

ńΧ

 $\mathbf{v} \cdot \mathbf{2}$

1114 PARK AND RECREATIONAL DEVELOPMENT V-3 Studies and enalyzes the planning and kyoset of examplifies and parking actes, re-restorn development mobility southtree disposal and water resources, and many end on problems perforting to perrotition, (2/3).

1139 PARK AND RESIRFATRINAL MANAGEMENT 19-3 Patterack Park and Recreational Development with amplitude on the housponed square (7/3).

TTE2 CONTAINER GROWING OF NURSERY STOCK: V-3 his odes study and use of growing plants in a crectature using a growing. negative for the production of the same colling, growing newtures, fertilized and unipation, (2/3).

1503 PESTS AND PESTICIDES V.2Induces weed and ensect control, insect and wood identify ation, and the effective of pesticides, (1/2).

1105 PLANT AND INSECT CIRCUCALS V.A Studies weed and insect contributivy means of chemical, mechanical, cultural, and histogram operaods, (1751)

(108) WEED IDENTIFICATION V.N Exhibits in allocation and internation on the primary and secondary max/any wordy in the local series and dontic strations in the chemical methods of control (199).

1424 WEED SCIENCE $\mathbf{v}.\mathbf{2}$ Studies the identification of tennotant weads, reprediction and prowth of weeds, and notheds of controlling weads with employing given to 02 losic principles of centralling of desirable plant prowfit through the ost of clean speciatificity and histograd mostly, (172)

1088 PLANT MATERIALS U V.4 Devalops knowledge of enlapticity plant participly owe goatte foreboop. methold, (172)

1095 PLANY MAYERIALS II v 4 Continues Plant Materials J, with meres self amployee an the relaptability of specifies methos and new synchronial messary streks (204).

1098 PLANT MATERIALS IU ٧л Continues Plant Vaterials U and H. offering intensive yorky of now varietics plant in iterials, (2)-0.

1109 HERBACFOUS PLANT MATERIALS V.3 Studies herbaleous ornamentals. Cowers and folloge plants why? combined with trees, should when and laws complete the originantiplantings (1/6)

0770 PLANT PROPAGATION PRACTICES I V.3 Covers the study of plant propagation, and foods of successibility primes, and the basic types of reproduction as helping plant homenclature (5%). 0861 PLANT PROPAGATION PRACTICES (1 Explores the technique of plant propagation by sexual and associat entflusik including outling, grafting, building, and propagation by systallying demission cost multiculy, (\$90).

0028 PLANT PROPAGATION PRACTICES ID V-5 Continues Plant Programma Plactnes i and II with purphysic op a part a Clar thatd or problem (a /i) -

1086 SOIL PROPERTIES	V-3
 Develops an understanding of the relationship between 8 	soils and plants.
which an produced from the soil, (7)21	

113 SOLCONSERVATION TECHNIQUES və. Studies maintenance of soil contrupents, soil structure, say microogramsmishing organic marries and the physical existence of the scill, soil convervation techniques and soil management practices. Study carried not under actual working conditions, (1/3).

1511 SOIU FERTILITY V_{2} Prepares the student to recommend, formulate, sell, and upply fertilizer. Covers lettilizer requirements, soil nuristore, and plant growth. Jerblizers of the well will micro-organisms, senaces of taw materials. Somulation of faithlizers, reconnecteding a fertilizer, included of apolication, loss of factblocer, storage of fermizer, and use of mano-motrients (G/S)

1417 SOLS AND FPRIMITY V-L introduces solv, sovering types, physical properties, and the effect these have on fortility. Discusses for filest materials and sources, available to do geometose operator. Time sported by program,

 ∇A 1427 SOLUSCIENCE Provides the hardproduct necessary has work on a form in the territory department of the form supply article physical, discrictly and isological oraperties of soils in relation to plant growth; soil restare, structure, monstore relations, lampesature, bivlogicily activities, and organic matter content, the functions of the soil as a mechanic to support plane lite. (272)

1099 SOFEAND WATER MECHANICS V-3 Studies soil formation, types, classes and enough, soil erosion and central, soil femility and fertilizers, their scores and effect on plast, and laveling, terracing and dist of survey equipment. O for

V-3 1104 TURFGRASS MANAGEMENT

Considers indiciculance practices and florin (ffects on each other, v1)51.

1100 TURFGRASS VARIETIES 10.4

Discusses choice of the right press to must the spectral requirements of sind, change and size 11751.

0258 SPECIAL PROFECTS

V-3-4

Offers self-planted project work in individual interest areas (3-1/0)

09) 1 SPECIAL PROJECTS I V-2 Offers self-planaed index-dual projects, done in one of the following areas props and soils, annual backgodry, form management and farm operations, Project will be conducted or one or more of the following: house farm, Contral Demonstration From Loo, outlying comparation farms, Reading Room and other relations sources, 19/2)

0070 SPECIAL PROJECTS 21 V-1 Offers self-planned, individual projects, usually done at the prome form in line with preparation (%) the second specialization the second year. (1/0)

(102 HOR FICULTURAL EQUIPMENT I V-3 Studies comparent needed to basely the computer mathematics problents posed by widely different landwayed areas evidence and us, Soft course, woodlands, payed breas, mathematics proper, and of the tree version aceas, (1)-0.

CONTINUES INTERNAL & CONTINUES IN THE CONTINUES INTERNAL PROPERTY OF A CONTINUES IN THE CONTINUES INTO CONTINUES



ART

Adult

C545 ARV E1-3 Includes use of various methal ails, water colors, charlots, various geneil brush and rok. Principles of drawing and painting, perspective, color and composition as applied to still life, perform and Signifpointing.

Vocational-Technical

9854 BASIC FLORAL DESIGNING 1 V4 Introduces from designing and study of basis designing of weight 4 design, care of coll dowers, the at cools and supplies, bisliquety, consiger, Chelsinias arrangements, foliage arrangements, potted platt do dosting, interrification, cost and pricing and expediting a flocal geft, (3/3%)

0021 BASIC FLORAL DUSIGNING II V-2 Component the study of theral designing including promotic design have designing of consiger functual and memorial flowers, plastic through and failinger, poster plant decorating, cost and pricing (275%) wisk) Property Basic Floral Decigrang I.

College Parallel

 0827 ART APPRECIATION Prevides an everyclose of antificant an instancial memoryport weighted frame of reference. Recommended for non-art major 	
0915 ARTHISTORY I States are breather, a spinor and painting from productory (0/0)	P+3 G Rome.
0078 ART BISEORY II Studies are buck to a sculpture and painting from the medies: through the DBD contains, (MP)	P-3 al perioà

0174 ART HISTORY IU P-3 Structions continuecture, sculpture and pointing in the 19th and 20th continues, (3,0)

0600 FUNDAMENTALS OF CERAMICS 1 P.2. Introduces high-fue, band built and wherl-thrown pottery, fundamental glaze and clay ecoernicentation, (0/40 (D)) FUNDAMENTALS OF CERAMIES II P 2 Continues Constitute 1 (0)(s) Prease. Constraints 1 or periodesistic at iestic eton.

120) FUNDAMENTALS OF CERAMICS III P-2 Continues Ceramos I and II with emphasis on form, throwing and advanced graze recleations, (0/4) Project Foundamentals of Ceramics II or permission of in-actualor.

04(16) FUNDAMENTALS (0) DMSIGN U P-2 Introduces basic design concepts, unduring contemposary concepts of the signal experience (0./4) Present Name.

0590 FUNDAMENTALS OF DESIGN II P-2 Cartiness Deepe 1 Problems of design from and structure, (0/4) Prepar Design (or parameter of testimeter)

1702 FUNDAMENTALS OF DESIGN III P 2 Continuous Dusign 1 and 11 with emphasis hence placed on the third dimension, motion and space, (0)(0) Preizer Fundamentals of Design R is permission of instructor.

0317 FUNDAMENTALS OF DRAWING 1 P-2 Practices laying dealwrise or prospective drawing, analytical drawing and figure drawing (1944) Project Name.

0409 FUNDAMENTALS (96 DRAWING II P-2 Continues: Drawing 1: Analysis of subject matter and accurate descripture visual drawing, (0-4) Property Drawing 1 or permission of instructor

0380 FUNDAMENTALS OF DRAWING III P-2 Implease placed on the figure using the various media of drawing (9/4) Prendy Drawing 3 or permission of instructor.

1073 FUNDAMENTALS OF LETTERING P-2 Studies basic letter forms and the ase of rend pens, problems in page design and manuscript weiting, 10/4) Prereq: None.

0518 FUNDAMENTALS OF PAINTING 1 P 2 http://www.bioming.0049.Preneg: None.

OTIO FUNDAMENTALS OF PAINTING II P-7 Contracted Printing C Trobules on and various water color methods (0/4) Prenet Pantong Complementscont of lastitucion.

1203 FUNDAMENTALS OF PAINTING III P-2 Continents Pointing 1 and 11 with emphasis on composition and color. (0/4) Prevap Fandamentals of Painting II or premission of appreciate.

(1175) FUNDAMENTALS OF PHOTOGRAPHY P-2 Use of camera, light meter and dark norm. *Decay of photography and* content conserved before physics (16.4). Press, Netw. Will, not be effected before 540 of 1971. 1208 FUNDAMENTALS OF PLK/TOGRAPHY IS P.2 Suppositions creative aspects of contemporary techniques, (0/4: Piereq, Poulography 1 or premission of instructor. Will not be affered before (2) of 1951.

1310 FUNDAMENTALS OF PHOTOGRAPHY III P/2 Emphasizes show ideal problems and modern aesthemas to photograph y. (9/4) Prenet: Pactography II or permission of instruction. Will plet be offered before fall of 1971.

10065 FUNDAMENTALS OF PRINT AND COMPOSITION TP-2 Introduces world car, engraving, dry print used side s concreteniques in solution parsay and fredhtforal methods (of reproducing, 10/0) Prerog-None.

1204 FUNDAMENTALS OF PRINTS AND COMPOSITION II

Secretures have a former study of through operating such stateness (C-4) Presequences by of Printer sking for perception of instructors.

1209 FUNDAMENTALS OF PRINTS AND COMPOSITION 00 P-2

Company's Printphysics I and II with emphasis or advanced composition and technical methods (D/A) Preseq. 2 Consuments is of Prints and Composition Land II.

1070 FUNDAMENTALS OF SUCLETURE 1 P.7 Introduces Service, Codeling and Casting (0:4) Press() Norw

1265 FUNDAMENTALS OF SCULPTURE 11 P-7 Continues Societory 1 with complexity or welding and combining mediats in the scaletory axes, hypotation of form and solor as they relate to subprove (0,4) Pariog. Society Lor permission of instructor.

1.306 FUNDAMENTALS OF SCIALPTURE III P-7 Emphasizes advarged techniques and fear with concern for applying methods of the monstruction of a major project in sculpture (0/4). Power Sculpture For permission of instructor.

BIOLOGICAL SCIENCES (BioL)

Adult

0645 PRACTICAL SCIENCE H-3 Introduces the Fasic principles governing biology. Textbook coverage of solviver matter with discussions relating this science to the and general application of instances.

Vocational-Technical

11111 ANAJUMY OF SEED PLANTS V-5 Stresses oftennal structure of seed plants, the disconcrive terrares or reffs and tissues and finida, with empearus on interest structure of methodors, plants, (1,7)

71

12_7

1327 DENTAL ANATOMY

Introduces the description and inductival characteristics of each teach in the parameter dentsting. The wax caving of fourteen teach in the maxifs and mutdible. Extends over two quarters (3)(4)

V-5

064n ORAL ANATOMY V.3

Studies the analomical features solutions and function that may be actividered in the fabrication of dental prosthears (3-0).

1350 HUMAN ANATOMY AND PHYSIOLOGY 1 V4 (See positive description under college parallel listen).)

1354 HOMAN ANATOMY AND PHYSIOLOGY II V-4 (See Course description under cology people, horogy)

0723 BODY STRUCTURE AND FUNCTION 1 V.7.4 Designed expectably for biodents in the Proceeds Noise, Medical Assistant, Orthopsenilis Assistant, Occupational, Theory, Assistant and Medical Secretary programs, adapted to the needs and interests of Audeony to each programs, holides a study of the Europic body, its parts and need functions (3/1)

0817 BODY NTRUCTURE AND FUNCTION IS V-1-2 Official rec students in the Medical Assistant, Orthopocoic Assistant and Medical Solutiony programs. A contrastance of Body Structure and Function 1, (300)

1282 PLANT PATHOLOGY V112 Offers an introduction to the parsis and tizture of diseases or plants and shuftes indicative simulations caused circuity or undirectly in disease. This action goal by program.

1096 PLANT ENTOMOLOGY VI On thoses Plant Pathology with purphoses on identification, diagnosis and trastrogent of the problem, (3/6)

1116 APPLIED ENTOMOLOGY V-3. Studies the insects affecting specific study, the identification of the tustor, damage and control of the same 11246

1421 PLANT STRUCT/URE AND GROWTH VI Introduces the parts of plotts, then functions and new these work together to perform the lassic process of growth. Time arranged by program.

1422 REPRODUCTION OF PLAN 1S V.: Studies were plants reproduce in relation to their life spin, as in entital, biomod, perential or winter annual The effect of 2 cathod of environment on reproduction is also general. Time arranged to program.

1407 MUDICAL SECRETARIAL TERMINOLOGY AND BODY STRUCTURE I

AND BUDY STRUCTURE [V a linter-the-the-interaction structure of the interaction systems, fragmasis is placed on the ability range of dimensional apply removes related to conductory and diseases (of the above a) stems) appearing in medical reports, (470)

1387 MEDICAL SECRETARIAL TERMINOLOGY AND BODY STRUCTURE J.

AND BODY STRUCTURE [] V-1 Studies the animary, responsionly, digestive, neurons and reproductive systems. Emphasis wiphond on the chality to spall, drifter and apply trans related to conditions and diseases appearing in medical centres. 14/0/ Peerce: Steamer in Technology and Body Steamers.

COOP NORMAL GROWTH AND DEVELOPMENT V-3 Studies the growth and development from contribution through and age, 61/D

1079 UNTRODUCTORY MICROBIOL/MGY V-2

Introduces the importance of aseptic and preventative medicate and includes the physiology of women heating, provides of indection and spread and control of functerial (200).

COLLEGE PARALLEL

0708 GENERAL BRIEDOCY [P-1 Entroduces taking sectorics populations and ecological diversity. Base encourses of ecology and population documes are streaged with emphasis on encourt topics of ecological interest area is population growth and ecological interest area is also be evolu-

1794 GENERAL BIOLOGY II P4 Straws the organization of the of the undexiding and redicts feed) the sugne of life, situate chemistry, collider structure and fraction, plant and annual discoprised, the proof of order, hereitay and organic evolution. Proof, General during 17(See Avd.ofInternat tab., below, t

0387 GENERAL BIOLOGY all P4 Stresses on unit difference and formation. Covers desection of 5-6 (e) estimation difference (for forg and lotatip), indemendent study of the estimated stress (for forg and lotatip), indemendent study of the estimated stress (for forg and lotatip), indemendent study of the estimated stress of the productive vision's Preneg General Isology 1. (So Andres Lateral Calibratic Stress).

AUDIO-TUTORIAL LAB FOR IJIOLOGY J, II, HI

East authorital approach in the laboratory sections. The student mesty in a large locture section one period per week, in a cheldwarf seminar one day per work and in the lab as his whedek periods. Furphasis in the course is on the lab, and the student arranges his own time for an induction. Single-concept tains, demonstrations and individual experimentation are integrated with targed information to provide an opportunity for the student to approve the subject matter at les own pase. Instructors are shorty available in the laboratory and studentinstantiae discovery students encouraged.

1050 GENERAL BOTANY I

Section (to plant as a whole, and its relation for the origination) furphasizes the structure of it spectro of it types plants. Stresses are of dictionations way to identification of local flams. So do granted for this rouged only upon completion of Gamesi Betary 11, (201) Piercy General Hinlogy 10 or developmental approval. Not offered before fall of 1971.



0141 GENERAL BOTANY II

Configures (Long) & Berony 1 with stress on the collubar and molecular lovel in morifloit, photoscorinesis, respiration, behavior and reproduction. Special configures is given to genetic basis of evolution end to moduli interpretations of natural selection. (201) Prefett: General Betany I, Nor offered before fail 1991.

15)4 MICROBIOLOGY1 P-3-4 Studies the morphology, physiology and pathogeneity of mator

organisms, with combasis on locatoria and virtuals. The course includes learns and laboratory. Techniques in colume, starilization, traditation and instrumentology. (2)5-60 Preseq: Two quarters of biology and two quarters of clictuistry or permission of instructor.

1540 MICROBIOLOGY II

Continues Microbiology 7, with employs your Medical and Entostrial Microbiology. It is recommended that both 5 and 15 be safen to meet general conster or dits. (2034) Porting, Microbiology 11.

US50 HUMAN ANATOMY AND PREVSIOLOGY I Pbitegrates the study of non-indian aratomy and provide a ith socialis or structure and function of the function body. Gross and otherways, appends and intendependency of the functional body wetents are structed as well as the observation of neural physiologic promotes and their application to path spheric grants and physiologic promotes and their application to path spheric grants and manuscopic starts of the only and ignore as basis state to application on a starts of the only and ignore as basis state to a physical and is. In addition, emphasis will begin on selected body systems belower, instructory approval.

1354 HUMAN ANATOMY AND PHYSIOLOGY II P.4 Continues Anatomy and Physiology I. Forther study of the metabolic systems of the body. Laboratories are designed to show hasic phenomena scenus metabolism, noise condition, circulation, muscle response as well as a comparative numeration dissortion. In general, laboratories are designed to complement the discussion sectors, Lectures and laboratoriged. Preparative Avitarias and Physiology 1.

1275 HEMAN ANATOMY AND PUYSIOLOGY

P-4

PA

P-n

123.4

Conjuncts: Anatomy and Physiology II. Limbhasts is placed on the respectory digestry, exceptory university and reproductive systems Again as in Anatomy and Physiology I and II. the Islandaries are designed to complement the discussion sectory, functions and labs to be attended. Prend, Huntan Adatumy and Physiology 3.

1301 INVERTEBRATE ZOOLOGY

P. 3

Survey the classification, diversely, morphology, physiology, development, behavior, contegy and evolutionary sclatsoaches of the major invertebrate phylo burphases will be on living forms, both fredowater and margae. Held work will stress adaptations and contagreal interrelationships, devoted to listoratories. Includes, writingers and field trips, Q/G) Prency, General Biology 1, 11 and 111, or consent of instructor.

1320 A SURVEY OF VERTURRATES

Offers an introduction to verticizate coology, with emphasis upor, evological relationships, were brain morphology, solutions, and systematical, phylogeny and evolutionary semification and diversity. In addition, a special problem is reputable, (4/6) Prenet: General Biology 1, 10, 355 of the phylogenetic dimensionary.

CHEMISTRY (Chem.)

Vocational-Technical

0614	TECHNICAL CHEMISTRY AND PHYSICS I	V.3
For due	coption, see Physics	
0711	TECHNICAL CHEMISTRY AND PHYSICS II	¥.3
For sky	s option, nee Physick	

College Parallel

13(1) SURVEY OF CHEMISTRY 1 P-4 Designed for network transferring to focusy was making programs, agriculture students, here reconcerns majors and all other material non-variate majors. General students students, pathasetwiry, charaical bundling, elements focus to two of nucleonal choice. (VII)

1910 SURVEY OF CHEMISTRY II P-1

Continue's Survey of Chemistry I, ordering solutions, p21. Equil-heart, oxidation-requirem and introduction to supanic chemistry. (271) Prefect Survey of Contestity 5.

1304 SURVEY OF CHEMISTRY III P.4. Continues Survey of Chemistry P. and instades a survey of suggestic chemistry, concluding with an introduction to bio-themistry, USD Preser Survey of Chemistry II.

(1993) QUANTETATIVE ANALYSIS P-5 Studies (Indentenal principles of quantity instant the Incoly and practice of column a gravitantial and definentiaty instant ental methods with supposes on modern superstant and provedures. (7/1) Princip General Connector 10.

6709 CENERAL AND INCREANIC CHEMISTRY I P-F

Introduces descriptive chemistry, with emphasis or per souty of science and chemistry. Medoro throaconal innovations are introduced. Lörerst background is provided for apparations to daily using (5711 Preces-Pightish and slythys and high school chemistry of consent of mythis to

1979: GENERAL AND (NORGANIC CHEMISTRY II

Others an integrated housing and laboratory methods even ise, explored ing concepts infordated in the fast long, fastaneous reduced as the emphasized in proposition for quarkative acidysts. Figure in other tasks and index of significant figure despitation was stressed (3/1) Protog Genery Lond Figure Chemistry 1.

74

0588 GENERAL AND INORGANIC CHEMISTRY III

Coverse principle elements, and introductory qualitative unalysis with a palasis on laboratory applications of elemental theory introduced in General and Gorganic Circumstry I and D. Utilizes an analysis scheme for elements to provide experience in practical chemistry. Individual compounds of elements are steaded in depth as examples of products of chemical reactions. (7/1) Preser: General and Increasing Chemistry II.

 (1366 - ORGANIC CHEMISTRY I P-4 Introduces invery and produce of organic chemistry with the emptions on the creminal world episodel to compounds of various Exporatory englishes on scientific technique, (201)

0457 ORGANIC CHEMISTRY II

Continues the chamical bond approach to organic considered a Series of composited and anisotration micerated tablerations sequence provides an opportunity for infordation, arganic mathematical analysis (2/1) Preneg: Organic Chemistry 1.

0551 ORGANIC CHEMISTRY III P4 studies in depth closes of iron did and beteroevalic organic conparative Taboratory in closely invence an entroduction to putched regain, worthesis (2)(1) Preney Organic Chemistry II.

COMMUNICATIONS (Comm.)

Adult

P 4

(113) ENGLISH 14-3 balandes composition, historics and around somed at the independent's layer.

Vocational-Technical

0449 HUAINESS WRITTING V-3 Develops the superclass procedures and practices of their communication and their contrainstic to a and management (1950)

06.27 COMMONICATION SKILLS t V-2-3 Reviews communication using and mechanics of standard expression. Solidents apply communication shifts drange continue written composition expression. Othered for studying error ted in set, of incorpational programs for the two periods cools were depending on program. (7.3)(1.5)

0715 COMMONDATION NEULS II V-3 Others additional practice and application of skills accurate in Commentication Skills I, with application to student's indo double coastional needs. For phases on developing, of scale scills in career situations will be evenloped (C-3)(-3).

Рч

P-J

0811 -COMMUNICATION SKILLS III. TECHNICAL REPORTING

Studies principles all organization and interpretation as they apply to preparing formulal reports. Research and description writing skills needed for both informal and formal reports will be emphasized, (4-550)

0537	COMPOSITION I	٧.4
(See cur	arse description under college (paullel 'asting,)	

0431 - COMPOSITION D ٧4 (See course description under college parallel (isony,)

TORS MEDICAL COMMUNICATIONS V.3 Includes we toge constitual reports, understanding reports and and within, and prostnit up real reports (170).

1994 SPELLING V-2

Stuff is for concert spelling and use of poin-technical words, (2)05

College Parallel

0048 READING LABORATORY

Provides continuing practice and source tore for the improvement of specific reading and wordy skills. An industry-Direct improvementproynam geningfol for each student. Programs include word recognition skills, wood anoming skills, spelling, anivo) og at svalsog, contrabogsion pull stacting all rank ideal and fatials, directing interfacts, speeched relating, astrong skills, and exploration of personal, education-1) and vacuational gaula (200) Pressey Corretor enrollment to or exclusion of Effective Reading and Study.

0893 REVIEW ENGLISH FOR COLLEGE

Provides here in developing writing skills. Covers such problems as focusing on a topic, supporting generalizations, and using detail, with emphasis on disproving and coning deficiences that are unique to individual students. Ainsy to gravide bry, the in the basic skills needed in a freedom a composition composition

QC64 EFFECTIVE READING AND STUDY.

Pravides featuration in annussful multiply of spady and of developing on qualisation shifts. Designed to help students whe need to develop flexibility in reading and other skills sold is skinoming, syzhating and intermeting. Periods to be reached, UMD

0286 WRITING LARORATIONY

Provides students who actal of device (Oddawny) work to writing with an opportunity to women't. Pariads to be arranged,

0351 COMPOSITION 15

Others help to these students who dead to proce months only the skill improvement. Lovers the skills of expanitory as they she she arguman-

ting, context and medianly silling amplete composition requirement for AA or AS displace students organizing in this course must also take Compresences Trendel 11, 14706

0444 COMPOSITION ID

V-3-4

P-1

Ρ.2

D

P.A

Constitues Composition In covering their comprehensively the basic itaits of the organized estrois then the upon Required for those who take Composition 15, (4/19)

0537 COMPOSITION 1

P.4. Studies expositely writing: the rheterical techniques at description, exempleingteon and definition. the organization of a coherent and united poper and critical thorizing for the puppose of dealing with propaganda and persussive recail space. Suspensed of all freshinger (44P).

COMPOSITION D

Deets with the formulation of valid propositions for a graph trajker is well as evaluation and manipulation of evidence for the purposes of occasiant and motivation. Teaches the research paper as a reduciple of scholarly investigation and emphasizes efficient use of ubjurg regenuly tool. The course is also molely with classification and analyses as thetorical techniques and the surger of algebra techniques an continumization. Required of all freshmets, (4/0) Protein: Successful, completion of Celapoisition 1.

0796 UNTERMEDIATE COMPOSITION P-3

Develops students' understanding of modern rhetorical (heory and English prose style. Instruction and practice in the art and plact of writing, and guidence in onlarging the surdents' power of thought, (3.0). Prenage Composition II or equivation.

1216 CRITICAJ READING P. 3

Disigned for stationty with no series reading problems, the course others postion and position in odvinors) reading and study tackrequire involved to leave conversibility from college courses requiring extensive leading to primary and secondary sources. Treatmong study, skills, including the \$05R, method of studying prominevitiesky, learning from lociates and using the furrary as a resource in propering reprets ateapplied to the faxes and fectures of an arademic marke, (Nor in he offered before fall 1973) (100 Preteg: None-

1211 INTRODUCTION TO JOURNALISM P-3

Presents a broad yet laws we prefate at the most important plases of journalism: newspapers, writing, advertising and priblic relations, (1939) Present Sciclessful completion of Complianton L.

1517 JOURNALISM LABORATORY

Offices takenatory for reach reporting and new writersplanel readours. weekly provings and student onlybradent work in the college's publications (201)

75

P 2

P. 7

CONSTRUCTION (Constr.)

Vocational Technical

V-3 1377 ESTEWATING Designed for Atchorectual Druttspren, course includes the reconcipies of estimating and quantity sorwy, (3/0)

ν.7 1382 PRESENTATIONS Offered for Architectual Distance, source indudes a struction in defensition and produle. (210)

V-3 6529 CONSTRUCTION MATERIALS Covers the study of fautings, foundations, floors, walls and partitions and framing members (wood, seel and concrete us3/0).

0624 CONSTRUCTION METHODS V.3 Familtarized students to the word sheed motionals and construction by making field tops to a variety of construction sites, (330).

DATA PROCESSING (Data Pr.)

Vocational-Technical

0766 INTRUDUCTORY KEYPUNCHING V.1Offees fracting for the occupation of key-publicity publicity and verifying of cards which serve as input to unit record and computer equimment. (1711)

0097	KUYPONCH LAB	V-5
Lao pro	ctices simulating production key-penching, (1/2)	

SELU-SURVICE AIDS FOR 0515 PROGRAMMERS V-L

Presents basic operation of nort record component, using pre-wided panels. Includes key-planch, sorted, interpreter, reproducer, and rabulafor to make personnel self-sufficient in the operation of these machines, (1,2)

0603 PUNCHEDA ARD DATA PROCESSING V.2 Studies functional writing and basis operation of and record equipment. Instatives the interpreters reproducer, softer, collater, and accounting machine (173)

0352 COMPUTER OPERATING TECHNIQUES. V > 0Induces study and practice of computer operating (religingues, studie); dudy and performance in the arrival ergdys perdisk hardling. computer conside control, and accuracy equipment (peration, (1,1)2)

1430 FLOWCHARTING TECHNIQUES v.: Covers the study and placture of the most equationly used techniques for the graphic representation of water, to program logic, (284)

76

V.:: 0538 COMPUTER SYSTEM 560 INTRODUCTION Understanding of System/750 features and devices instading System/ 560 Direct Access devices. The techniques of file regarization and the programming systems support for these devices. A supply of programmany language capabilities and operating systems, (2/0).

0905 COMPUTER AND DATA PROCESSING CONCEPTS. V-3

(See contso description suder as lege paying), hepings.)

0438 - 360 MODEL 20

V.3 Previstas are traineducidan, to and programming at the IDM 360 Model 70 comparisons, functions unit characteristics of the Model 20 as well as programpting shrongly use of RING and punched card unlity programs (1940)

0545 COMPUTER SYSTEM/360 ASSEMBLER LANGUAGE PROGRAMMING 1 V. 3

Covers Zardware components and 360 memories needed to program the 360 in the Assembly Language. Designed for those programmers why read to node their programs in Assembly Language for use either with HPN, BOS, DOS/LOS of the Operating System/Bill, (3/0)

0102 COMPUTER SYSTEM/360 ASSEMBLER LANGUAGE PROORÂMMING IL V-3

Continues Computer System/260 Attempts: Language Programming L esta:

Ob65 CARD-TAPE-DISK PROJECTS 1 V-2 Conf., tage and disk programming projects. Stationts personally write, iou and document and, tape and disk programs (0/4).

V-2 0849 CARD-TAPE-DISK PROJECTS H Communes card-tape-disk projects 1 offering additional experience in writing, testing and doubtioning card, they and disk programs, (0,4),

INTRODUCTION TO REPORT PROGRAM 0894 V 2-3 GENERATOR.

Studies BPG on a card system. Mothods for having Cota processed by a computer to reach the open program ponestar technique (1-3(2))

6013 TAPE DISK REPORT PROGRAM GENERATOR

Studies BPG on a topy and disk system. Mechads on hoving dataprocessed by a computer with might take and dask through its of the report program grantation to bilation (1/2).

INTRODUCTION TO SYSTEM 350 ÖI4⊑ COBOL PROGRAMMENG V.5

Studies Celled program forty monotory and techniques, and writing and testing of these properties (3.4)

 V_{2}

1253 ADVANCED SYSTEM/360 (JDRJ, PROGRAMMING V-5

Continues Introduction to System 360 Cohos Programming, (3)4) -

1252 COBOL PROJECTS

Provides expension in some of the more somplex aspects of Cobol programming. To a large extent the cost to will operate in a simulated insigness approaches. (0.4)



0615 INTRODUCTION TO SYSTEM 360 FORTRAN PROCRAMMING

tomostaces Fourian programming convepts and techniques, with intercal scale analysis and other methods for solving muthematical systemic ingenering problems, (2/2)

9037 ADVANCED LANGUAGES

Covers programming with advanced compiler briggs, and writing and resting of programs in Coled and Fertrain

0430 COMPUTER SYSTEM-360 PROGRAMMING LANGUAGE I

Introdyces Language specifications for System 360 Ptull (1771)

10784 AUTOMATED TESTING

Y-2

W. 8

N.3

V-3

 $\mathbf{v}_{i,k}$

Privates actorpatic program testing in a closed shop statistic, and includes the quothods, while and lestingues required to detect radioasystel program, includence only forcing the use of automatic test procedures (2/2).

C462 PROGRAM ANALYSSS V-2 Covers methods, tkills and transports for megaan testing and program functions to ensure the contract and consisting programs (17).

0346 COMPUTER SYSTEM/3n0 DISK OPERATING

SYSTEM CONCEPTS & FACILITIES V-3 Designed to occurrent the analyst and DP manaper with the general structure of the Disk Operating Systems, examining its conveptioned

feedness a provides to the DP installance. (5/0) 0449 COMPUTER SYSTEM 360 DISK OPERATING SYSTEM CODING V-5

Designed for programmers who plot to use the Disk Operating System, of the System (36). Covers all formers in the Disk Operating System, including the job control longuage, supervisor services and macros, systems presistent, systems numberance, the Enkage edite-functions, input/Corput. Access. Methods, Topot-Output. Coding and contraptogramming facilities (342).

(35) COMPLITER SYSTEM: 360 D18K

OPERATING SYSTEM ADVANCED CHDING V.S. Centiones Computer System/DOU Dask Operating System: Codity Intended to argumet programmers with some of the energy suplexificated signs is of the Disk Operating System such as physical DOS relations generating, system generation and interference, etc. (594)

01:54 COMPUTER SYSTEM/360 OPERATING SYSTEM CONCEPTS & FACILITUS

SYSTEM CONCLPTS & FACILITUES V-3 Studies concerns, expandention and functions of Operating System (360 Designed to acquiring the system) analyst and DP manager with the Defibition provided by the Operating System, and how they far the effectively used video.

0242 COMPETER SYSTEM/360 OPERATING SYSTEM CODING

Continued Operating System Placification terches programmers to use the supervisor services provided in US/061 Assembly tragalage. Covers the use of 1/0 definition and matters as they relate to working programs to be run under the Operating System. (3)40

-0740 PROGRAMMING SYSTEMS V-2

Subveys the programming systems area assemblers, compilers, varis, merges, monitors, and considerations of future transis in programming, (200)

OS33 PROGRAMMING SYNTPMS LABORATORY V-2 Develops Provided and skill in the use of various programming sistems, and effort actual working experience with a solit mergemenitor, and various of lites (204)

0475 DATA COMMUNICATIONS V-3

Entrectiones compared in ensideration devoces and confirm in data certamanifactions to completeneed data previowing 13.00

0527 COMPUTER SYSTEM/360 OS COMMUNICATIONS CODING V.3

Offers an extension of OS Colling, including Teleprocessing systems, (2,2)

27

V.S

0623	COMPUTER SYSTEM/360 DOS	
	COMMUNE AT ITINS CODING	

Offers an extension of DOS fielding to the June Telepine essing systems: (7/2)

(351 ADVANCED PROGRAMMING STUDIES V-3 Investigates advanced areas of computerized data processing. Spet alloselected computer related topics which are presented in depth by the students. (30)

0497 NUMERICAE ANALYSIS V-3 Includes theory and application of numerical processes to the computer assisted valuation of mathematical/scientific/engineering problems. Iterative Techniques, polynomial interpolation, numerical differentiation, integration, and integri differential squations. Computer usage in practice solution is stressed (MD)

0335 INTRODUCTION TO DEERATIONS RESEARCH V-3

Offers some array type class meetings dealing with operations research topics. What is O(0), inventory nonders, assignment problem, allocation, sequencing, replacement, linear programming, sind other, mathematical models, graning flatory, quedering theory, networks and graphs, optimizing algorithms in O(0), etc. All onits will begin with a basic introduction to the theory needed to develop an understanding of the cuosed and a rather elementary level, O(0).

0584 ADVAN(%D OPFRATIONS RESEARCH V-3 Further devotors topers considered in introduction to operations research Applied O.R. techniques to problem situations or as to develop application strations (3/0)

0506 CERTIFICATE IN DATA PROCESSING REVIEW V-3

Possides review of tops to troubly to the certificate in data processing examination indications data processing obligations, comparising or gramming and values example data processing systems, accordingly, trachematics and statistics, (2001).

0877 ON-THE-JOB OR ASSIGNED PROTECTS V-1-5 Offers subcraved work experience of various cital processing tasks which serve its learning table skiller tasks are completed. These tasks may be down within a real or similarity becomes organization. (C)2-10

QQ04 INSTALLATION MANAGEMENT I V-3 Offers semicle environment of spatial red subjects gettilize in supervising to managing a data processing department. Prenef: 3 quarters of data processing 7 i/00

 D704 INSTALLATION MANAGEMENT (I V-3)
 Gaptimes set ingeneracy of specialized values to begin in hostillation. Manggement I: Presty -3 quarters while to processing (200) OPP RECORDS AND SCHEDULING OF DATA PROCESSING OPERATIONS

Studies types, formats, and typical systems for maintaining recards for a data process op installation. Prezeja Introduction to Computer Programming, betradio tion to Unit Record Processing, (370)

V-3

¥-1

0788 RELATED EQUIPMENT I bedachte Structure and and a discussion

vЗ

Instantes contractionstics, currenticity and use of economic in related to data processing: interaction processing and handling, after-bandling rejury stend tedger card machines, converging-quipment, and key driven equipment, and readed by paper rape, 1190

000) RELATED COUPMENT II V-I

Commutes Related Equipment 1, (0/2)

05.42 OFFICE AUTOMATION V.3 lociales may or up to care enarging and lectron usy for an amatum office accounts. Coproduces, burdarions, and applications of effice automation equipment (1.30)

QS3 (DOC DMEN) ATION 1 V-3 includes Docume transmission studies and logons design for a computerized data processing metrilation, '2001

0720 DOCUMENTATION GRAPHICS V.5 Discusses techniques (ad methods of preparing and preventing data processing charter instructions. Jones and related viscal displays Proval Patricipation to Comparer Programming (300)

0447 SPECIAL ACTIVITIES V.1 Office topics of outcommunication data processor in flatms of because, talence discussions can core, field topic effect to present information to broading and deepen the innowledge of the data processor with a his field. O (b)

0687 INTRODUCTION TO DATA PROCESSING V-3 (Sectorary essentiation such a college product strings)

0932 ELEMENTS OF DATA PROCUSSING 1 V.7 Explanas the new of so sols data processing systems for birdiness applications and found opposithe stident with the functional element issues of D.P. systems. Has a bioiness applications of order wording, billing, accounts increasible covendary accounting and soles shall size covered 1,500

1433 PED/MENTS OF DATA PROCESSING II V-3 Communes Elements of Data Storesong 1/2/20

0566 BUSINESS APPLICATIONS OF DATA PROCESSING V-3-3

Applors data processing to a P-siness capacitation, and considers functional areas with as production (percented and accepting), (2-3/6)

0334 INTRODUCTION TO SYSTEMS V-3 belocks systems, procedures, systems and use and systems dusign, purposes, responsibilities, applications and techniques of the systems

78.

service as control in a business organization, (3/0)

0689 ADVANCED SYSTEMS

Applies systems analysis/design to particular functions of a business expansion (General consideration of data processing cyclement to survive the constructuring, marketing, personnel, and essentition is twitten. Systems, examined range from a small procedure to a total changement uncorrection system, (SO)

1071 APPLIED SYSTEMS 5 V-3

P-routles practical experience in systems analysis and design at several levels. Statemetry performs analysis and design functions in semilated backness environments. Pre-top: Altragement Systems, Advanced Systems Events Events(3,3).

D167 AP7LIED SYSTEMS IS	V-3
Connaces Applied Systems 1 (2:2)	

(0250 APPA IED SYNTEMS III V-3 Commers Applied System 0 (12:2)

0428 SEMINAR SERIES V-3

Provides y specialized series of tapies to fit specific occupational aborts, you as an explorits/haddrors, backing, present data provision overs, grantfacturing, personnel, industrial anguagement, advatived programmers/systems intalests, corporate management, also Teories coset such opers as nonpager concepts, data transmission, audit trails, bysiking uses, physicasion conclust, of, advanced computerisystems techaig institute, 0500

0755 MANAGEMENT SYSTEMS

Others: fundamentals: of the systems approach to management in the areas of manufacturing, or informing, be solitabled accounting. Examples systems, integing, from a similar projecting to a factal management information system. Prefeq information to Systems, (1991)

3869 ADVANCED SYSTEMS JECHNIQUES

Structory proceedures and techniques useful in the design and evaluation of integrated management information systems. Prettyp Interational to Systems, Monsgement Systems (Jatter course may be taken countrient by), (3,0)

0032 ACCOUNTING SYSTEMS

Of the in-depth study of systems analysis/design as opposed to the bars due of as pointing. (In subject of accounting is concrete only to the varies forget a the Advanced Systems against (550)

(017) PRODUCTION CONTROP, SYSTEMS —

Ottors mode pth school situation and systems and ysisold sign as a policy to the hardboar of our distance of a line subject of predicting a terral is wave, eductions to be a the second station in the Advantacia Systems course (3.0.1).

6261 PROJECT MANAGEMENT SYSTEMS

٧3

Applies is whith interactment teologication is the planning and control of $p(s_1, \ldots, s_n)$ adding, completion, profit and cost, includes crucial particularly, PRPT costing, and the resplicit computers to implement these factors press (9.05).

9760 MATERIAL CONTROL SYSTEMS V-3 Applies systems analysis design to the function of material control. The subject of control is covered more felly in this control form in the Advanced Systems course, (370)

(1881 PAYROLL (PERSONNEL SYSTEMS V-3) Offers an depth study of systems analysis design as applied to the hundlion of generation/payroll, The subject of Personnel/payroll is accessed and tails to this course that in the Advanced Systems course. (59):

11325 ON THE MOB SYSTEMS PROJECTS V 3 Obeys supervised assignment of systems analysis design tasks which dowloap shall knowledge and ability in the responsibilities, activities and interview of systems work. (300)

College Parallul

¥.3

V.G

V.4

ν.τ

V.3

0687 INTRODUCTION TO DATA PROCESSING P-3 Surveys data processing concepts and applications. Oriented us the business student or of general interest. Protog. None, 03/01

CS95 INTRODUCTION TO COMPUTER ORGANIZATION AND PROGRAMMING P-3

St of exclusion) besided a slightal computer system: machine representation of non-bers and characters, they efficiented antimetre and logical executions, indexing: imposed take subsortnes, indegs and recent subsortex in computer organization. Programming in problem ensured languages. One epits illustrated and preblums programmed on available subjecters (50).

CO86 COMPUTER ORGANIZATION AND PROGRAMMING 1

Sitialles fotundier systems, synchol and handser representation: basic algorithmic processes forwallocating, decision tables: switching matrices. From dataset and solution of a word supprist algorithmic processes on a small transform processing modulation on evidence large scale digital completes. Preving 10 credits in attricepaties of statistics. (4.0)

CT24 COMPUTER ORGANIZATION AND PROGRAMMING D

P-4

r4

Statiss organization of a large wale digital to aparter, inserticities and termary base cosmoly transport and and to and then and solution of a survey of pathecides and procession test problems to one or more high-level problem separated hypologies. Proceed Deta Receipting 00(6), 14-0

0252 COMPUTER PROGRAMMING

Studies Festran, Cobol, and PL/I program@log. Prenap. Data Proceeding, 0164 (1240)

0906 COMPUTER AND DATA PROCESSING CONCEPTS (Introduction to Computers and Programming) P-3

Covery fundamentals of computers and computernetd data processing. Data processing concepts, computer terminology, computer devices, basic systems considerations, programming techniques, and data accuracy and control. (3/0)



DENTAL (Dent.)

Vocational Technical

P₂3

0089 (MRENTATION, D. A. V.2 Provides information necessary to build a complete and knowledgeable foundation upon, which to archer a meaningful career as a denial assistant includes dental terminology, and orstanding of denial assistant confidential, history and expanization of deniative and its allost organizations, and a thorough study of State President As (s.1201)

(0136 DENTAL MATERIALS V-3 Gover students an opportunity to require a basis understanding of the various types of dortal materials, their uses and their manipulating techniques, (2/2)

(0705) DENTAL MATERIALS, D. L. F. V-3 Develops basic invights into use and composition of materials related to the dental laboratory to initiation field. (2/2)

0276 PRIN(TPLES OF DENTAL ASSISTING) V-4 Presents the basic principles of character assisting and identification of characteristic and oppipment. Includes assisting all the area of oral diagnosis, operative, or with bridge and prosthetic dentistics (5/4)

0368 PRINCIPLES OF DENTAL ASSISTING II V 6 Includes the basic assisting boolan entals of codod entries, periodication, orthodoctics, acal subgery and pedadactures, radiography, practice and apprior from of explosing acroy film, slowloging files and connecting radiography, (4/4)

USNO PRE CLINICAL SCIENCIAL V-3 Includes a study of denral spacety and bady stoucture and function, 12/13

0644 PRE-CLINICAL SCIENCE IF V 3 Presents an overall view of debte, diseases and their presention: the relationship of information's realises to and their control, (201)

(973) PRE40EINICAL SOLENCE III V-2 Zowenik general converts of every, otherized or relation to should health and a study of dury scenerary laws in depriving 12,00

0792 DENTAE LABORATORY ASSISTING 1 V-1 Poleties and application of laboratory skills completely performed in a private dental office, including program and transming of study models, principles of soldering and construction of remevable acceler appliances (2):1

0883 DENTIAL LABORATORY ASSISTING II V 2 Designed to develop skills to construction of high lanks, and of designed way patterns by coming conversional industry, (572)

0137 DENTAL ASSISTING SEMINAR

Designed to assist the student to cholcal situations. Oaw participation in problem volving of enotion-induce particulos, CD09-

(212) CLINICAE L.D. A. V4Offers individual experience in clinical areas of optimized crews, & bridge, and prosthetics at the College of Dentistry in Lowo COy for practical experience, (0/13).

0307 CUNICAL II, D.A. Allows students to sotary through the various departments of periodonres, endedonites, orthodonites, and degnosis, and surgery, pedendoites and is ray at the Contege of Dentistry in Iowa City. Designed to nive the wordent on overall wow of dential polisting to all seess of dentistry. (0.15)

0397 CLINICAL 10. D.A. V.3 Provides experience in private double offices to order to develop speed. responsibility and gain expression r in basicses pro-relates. (0/19)

V-2.5 0605 DENTAL LQUIPMENT, D. L. T. Try ludes study of basic joints, charis, weights and mexanonents related to depta lightery technology, (5/01)

V.4 0793 DENTAL EQUIPMENT, D.L.T. Spoil ye project arrangement, care and maintenance, affecty procedures. and waitability (5/2)

0879 (LINICA) EXPERIENCE LAND SEMINAR D.J.,T. Provides quartical experience in detital laborateries lucated at the

University of lown, commission laboratories located to Lowz, the Veterans Administration thispual and passibly some private dantal offices (0)17)

0659 CUNICAL EXPERIENCE II AND V-02 SEMINAR, D. L. T. Continues and develops doub principal in Critical Experience 5, (0)12)

0774 -ACRYLIC JACKET CROWNS

AND VENEERS V.5.5 The precedures and actual construction of servic jucket dresses and vencers, (2)%)

0917 PRECISION ATTACHMENT PARTIALS V-6,5

The designing and construction of different types of attachment. portals (307)

ODDIT CAST METAL BASE DENTURES. ¥-3 Continues complete dentities any fraction, including cast metal bases. (Trendutti), (2/2).

0158 PORCELAIN ON METAL.

N-3

V-12

Request from (Bridge with the emphasis on aesthetics, darig parcellap glassed to a metril (paniework (2/2)).

1303 PROJECTS LABIL D. L. T. vs

Provides specific issignments to all in learning, with experiences and depth at training planned and offered on an Individual logic Assignments in ade to develop each phase and growth of stude of y-

1307	PROJECTS LAB IS, D. U. T.	V-0
Offersie	rahviduztized studena assignments.	

1311	PROJECTS LAB HU, D. L. T.	V-0
Contine	cea projects lob 1 and 11.	

1015	PROJECTS LAB IV, D. L. T.	V-0
Contene	exprojects lab 1, 11 and 111.	

V O 1323 PRODUCTS LAB V, D. L. T. Continues projects infull. HI, HI, and IV.

0245 PORCELAIN JACKET CROWN V.S Covers adapting a matrix, applying poreclain, completion of the crown, changing sources through slauning and removing the matrix prior to slupping to the domnst. (2/6).

0326 DENTURE (ECHNIQUES AND ARTICULATION. ٧·S Studies special rectangues usuch as surplants) and actionisters (by) the jectionary pay come in control with while constructing deutal provides)s. Clinicians demonstrate the application of these special

0448 SPECIAL PARTIAL TECHNIQUES furbides unally ng, designing and construction of purjuly viework. indimiques as Wesigard, P.H.P. saddenick, stressbreakers, cleft plate abdurators, (2/4)

techniques with relation to the dental laboratory realistics (1/8)

0375 LABORATORY MANAGEMENT Discusses psychology and microslasticity relations, pertification thow, when why?), buckkeeping and cost analysis, and where these services may be secured, 17, 5/04

0407 OENTURE TECHNIQUES I V-6.5 A complete parties and study of the procedures related to destate 00.05/(001/sub-11/-0265)

0067 DENTURE TECHNIQUES II Delves into the zewhettes, phonetics and function. Working with special advanced astroplators and advanced work to tooth transportation (266).

0:85 ARTICULATORS AND ARTICULATION V.3.5 Studies may hypital devices used to solidate the remembrings of the real-82 anatomy with relation to the construction of dental prosthesis. (3/5)

0205 CASTINLAY AND CROWN V-5 Covers the technique of policing models, mounting, training and encorrection of unisystand erows. (206)

037(1 CROWN AND BRIDGE V-()) Studies precedures used to constituting dental bridges, offers practice in second constitution of bridges, (4/12)

USAS PARTIAL DENCORF (ECENTQUES) V4 biologies the for storotion of shaple comovable partial destates. (2/0)

6476 PARTIAL DENTURE TECHNIQUES II V-5 Intenduces custing partians, and the actual designing and construction of the cast removable partial possiliens, (2)(6)

DRAMA

College Parallel

0151 INTRODUCTION TO THE THEATER P-3 Introduces the various methads of stagecraft with the emphasis of the vicity of a number of plays and the observation of performances to discover the relation mp of the playsraght to the constion of an actual performance, (3)/0

14.36 THEATER WORKNEIOP PC Psycides students with experience is dimetical production. Made in may work in one of a matches of pre-litence acosy under the publicate of experience-1 (cester producted Gardynne and trispical critiques provide students with the randoctanding of production artificities May be repeated for credit order. Production schedule determines hours per week (604)

DRIVER EDUCATION (Dr. Ed.)

Adult

0921 DRWER FIDUCATION 11-3 Offers thicry hours of claveroors work and six hours of a total drying time: designed to prepare the student for the written and driving tests for an lowa Driver's License.

ECONOMICS (Econ.)

Adu|t

82

0195 ECONOMICS H-3 Introduces the duay of economics with regard to government as well as overgetay soluctions. Broad coverage of aconomy theories governing personal affairs and instructions.

Vocational Technical

0638 AGRICULTURAL ECONOMICS I V-3 Apples economic principles to agriculture. Designed to derelop 1 knowledge of the relationships between capatel stid investment, the course inclures a study of economic relations, bard, laight, lie cours, crops, and equipment, and the test conclusion of close (autors) increasery for good production, (20)

0728	AGRICULTURAL ECONOMICS B	V-3
Leigtja.	ary Agricultural Regionajes 2, (140)	

College Parallel

0544 THE AMERICAN ECONOMY P.3 Presents an everytow of the American economy, and on exploring to cap tailstic pasticipatis and to some of the elementary competition economics. Emphasizes a state of economic problem presently taking contemportary watery. Recommended for Associate Deposit programs only. Transfer status uncertain (0/0) Present None

1277 PRINCIPLES OF BUSINESS ECONOMICS 1 P 3 Augumnts the student with the business enterprise in the perspective as the modern encoding, and introduces the economicsing problem and a compribensive analysis of markets and the price system. Intrudes dought and supply, while students, supply and cost of production, sevence and obstitutions, price and output estermation resource priority, and biomess and government. Recommended for Associate Disprove programs only, "public states integration (196) Prevent None

1279 PRINCIPLES OF BUSINESS ECON(IMICS II P-3 Contentes Sourcess Economics), Stronges the role of the business sector bit exactiving constrain income and employment theory. Incides astrongl ancience a Good (i), the Presides cycle, neurary and hanking, and fiscal and momentary theory and pathy. Recommended for Associat, Degree propagates only Transfer status uncertainty (3/10) Preseq Business Economics (1).

0771 PCONOMICS1 P.3 autoduces principles of economics and the economizing problem with emphasis on national normer rid employated, accepts, a cludes rational informe accounting, the bisiness cycle choosy rist barring, fiscal and monetary theoly and policy, and economic gree the Receinmentied for steneous persong a ducendurbate Daylee program, (200) Prency No. 9

0867 ECUNOMICS II

P-3

Continues Economics 1. Emphasizes markets, the price system and the allocation of rescorces, demand and sopply, nearket stoccures, price and colput determination, and income distribution. Recommended fee students pursoing a Balcalaoreate Degree program. (3/0) Prereq. Langement 1

0029 ECUNDMCS 111

P-3

Presents an advanced analysis of some of the topics discussed in Fromonics U and H. Additional topics include the proteens of inder-developed nations, international made, and comparative econothe systems independent study and research will be stressed. Recentmended for students personally Roccioscente Degree program, G/O Prenag: Recomplex Land II

INDEPENDENT STUDY IN THE 1501 SOLIAL SPIENCES (Economics) P-0-1 2-3

Provides readings, papers analyor basic research projects under disinductual guidance of a staff member. Consent of the lostrocior and department chairman to required before registering.

ELECTRONICS (Elect.)

Vocational-Technical

0404 ELECIRICITY

V-3

Studies principles of electricity, electric fells, driver current circuits, electrical synthesis, electric power, engenetions and electronsuprietural alternating correct, deciring portunants and mexasenterity inductailed, registrative substance, capacitation and resistance in AC circuits, graduated, direct courant motors, ghandation company material "gating communications, writtleation of allocitation convert, dectra Conc. 319 (2/3)

0549 APPLIED EFECTRICITY F Vicia Studies basic electricity principles to resolution, rogaritient, soltage, imperape, and training in the use of test equipment, (2)4)

0534 APPLIED EFECTIVED FF vы Continuous Applied Floctricity 's with grouter emphasis on the electrical systems of Sami coportine (1974).

1393 INTRODUCTION TO EFFECTRONICS. V.2Provents the "big politice" of electronics by approaching modern clicitranic devices as sestions. The student also learns correct fuborators procedures and develops protestional technologies in the use of test septipology, (MS)

0305 FLECTRH_CIRCUITS F V.94 Studies registry, encurs, with both constant, and Matewayying powersources. The test posteries of the course principane the physics of electricity, along with using detections. Symbols, and no lations, The

major portion of the occurst is a study of methods and rechniques of 40/b/stip siteways. Apple ation of Portran IV computer propriating to vicent analysis is also introduce≥ (7/6).

0435 ELECTRIC CARCUITS II M.S.

Offices an analysis of single time-constant circuits, (R.), and R-L circular. Includes reactance, resonance, and simissing) and experimental responses. The superior to concern in this course, [4)51.

0577 BLECERONIUS I

vл

fuch des vacuarit diodes, rectifiere vacuum tubes, vacuum tube anntùi-Fiers, special purpose tobes, and pwildators. Emphasis is on enpineering techniques (4/1)

0673 ELECTRONICS II V.6 Studies south-of-duition physics, large signal experation, l-ins arrangements, AC operations and temperature efforts, 15(5).

1363 ELECTROMC CIRCUITS F V-10 Includes hasic direct and alternating cottent, and circuit analysis, and basic vacuum tube and semiconductors analysis, (8/8).

V.71367 ELECTRONIC CRODITS II Continues the traps. Lipston 1, and develops the concept of the vacuum tube and somhorablactor as circuit elements. The student analyzes low frequency couplifiers, high-frequency surphiliers and excitlatory during they doors? (\$100)

0454 ELECTRONIC SHOP METHODS V-1 Owers the featuring exitsed by technicitus in a modern electronic whop, Same of the applys covered include sublemp reclamptes, whong, and parts realizescent. (00%).

OB13 COMMUNICATIONS ELECTRONICS V-n Pollides intelle cucaits, judio hequerxy cucuits, power supplies, superbatteredy notices effect, mustation and transmitters, and transmitter attenuity, Employer is on an groupping technologies, (477).

V-Z 0813 COMMUNICATIONS BEERTRONICS F Studies the various types of pawer supplies used to power electronic circuity. Other topics include secsiver systems, modulation systems and transmitter systems, (275).

9160 COMMUNICATIONS ELECTRONICS II V.5 Contracts the study of contationstation systems and includes study of Autorities Transitions Lines, FM Multiplex Systems, Microwate Systems, Remote Centre, Devices, and Bysic Transmitter Trachlesaliating Lectropoles (196).

1405 AUDIO SYSTEMS V.4 Covers in fulding uniphilities, stored systems, intercom systems, public address systems, and recording, (3/4).

1542 OPERATIONAL AMPLIFIERS

Covers the fundamentals and significant apprications of the operational amplifier. Includes meanwerking amplifier, inverting amplifier, D.C. offser, duit, frequency response, oscillation and phase compensation. (3/0) Preveq: Familiarity with intermediate algebra and frigonometry as wetlias the fundamentals of Posic electronic circuit pheney.

V.1 1371 BROADCAST SYSTEMS Includes Television Sync Generalizes, Televisium Film Projectors, Television (12), ring Systems, Optics for Television, and Basic Program, Production Techniques, ECC rules and regulations are studied during (bis time: (0/2).

0423 TELEVISION I V.9 Includes the TV breactast system, transmitter systems, recovers, tranhleshholing techniques, and alignment procedures, (5712)

V.1 0510 TELEVISION 31 Extends the student's experience into colica television, covering such implies as transmitters, provivers, and scorport servicing, (2/S).

0231 TELEVISION CERCUIT ANALYSIS V.S Studies the television broadcost system, actional transmission of signals, receivers, neoblexheating and augnment procedures, and the introduction to the principales of color relevision, (4)6)

140. INDUSTRIAL TELEVISION SYSTEMS ν4 Covers a completely solid state approach to the followized system. includes all aspects of the television system such as Generation of the Tulevision Signal, Video Anaphilication and Processing, Principles of Color, TV, Color, Cameras and Associated Circuits, Color, Econders, Color Tolevision Monitors, Video Switching, and Video Type Recordjug, 14-3).



1413 TRANSMISSION SYSTEMS

 \mathbf{V}

Deals with methods employed to convey information by incase of electronicagnetic indiation, Includes Rodottora, Transmission Lines. Properties of Antennus, Propagation, AM-FM Transmitteer, Single Sideband Transmitters, Bass, Parameters, Amplifiers, and Masers and Musters in Communication Systems, (5/3).

0886 INDUSTRIAL ELECTRONICS V.2 Analyzes the basic circuity found up industrial applications are analyzed. These include. Gaseous Tubes, Semiconductor Control Colours, Physicelectric Devices, Rudia Frequency Heating and Servantechanisms, (1)(2).

0126 PULSE AND SWITCHING CIRCUITS v.5 Includes analysis and design of electronic switching pirculars meltiding clipper, clampere, incurrentiations, pulse stupper, blockling oscillators, ingle circulas and sweep colouits, (N/2)

0734 TRANSISTOR GRCUH ANALYSIS AND DESIGN

Covias the operating point, equivalent circuits and personelers, multistage airpufters, stanitic und feedback, CEP's SCR's, unijunctions, systems, and new devices, (d/6)

TRANSISTOR CIRCUIT ANALYSIS AND 1488 DESIGN -- FIRST HALF

Takes an analytical approach to transition circuity, covering techniques. of sensing like operating point, equivalent circuits and their - potamole/s. high frequency analysis, and design of low power amplifies circuits. This course plus 1089 (both offered on evening sessions) are equivalent 55 0734, (2/3)

1389 TRANSISTOR CIRCUIT ANALYSIS AND DESIGN SECOND HALF

V.3

V.N

V-6

V-3

This course is a configuration of Listicator Carant Attalysis and Design First High The replica costrial to this contacting the large-signal amphilters, mility stage amplituers, gott stubility, feedlapit, compropilations chosely, and pulse currants. This follow plus Franklytte Circuit Analysis and Design-Prust Roll may be substituted for 6734 Cransister Circuit Analysis and Desger, (273).

0777 TRANSIENT CIRCUIT ANALYSIS

Includes unalysis of multiple time-constant circuits, (R-1-0 circuits), and solution of integro-differential espections followed by the use of Laplace transform techniques in obtaining complete circuit responses. (2/2)

1375 TROUBLESHOOTING V-5

Offers practical experience of troubleshooting actual electronic equipment. While must of the time is spent in the lab teparing voluplitent, time is devoted to algo discussion of various frombleshooting rechraques that might he employed to repair various electronic devices (12/9).

V-ń

[409] MODULATION AND DETECTION SYSTEMS

Deple with the various west on which data in vertices fortex can be nervested and locus that the reasonisation vestion, in mest efficiently bandlar, angles concrete include: Amplitude Modulation, Single and Dorbie Saleband Volteration, Amplitude Modulation Design, Angle Modulation, Multiplex Systems, Pulse Modulation, Determina Fondamentals, and The Effect of Noisi an the Communication System, (4/6)

0557 MICROWAVE SYSTEMS ANALYSIS V-3 Deals with the radiation of the electro-magnetic wave of frequencies above 300 WHC Methods of generating, transmitting and receiving the magnetometric signal the distances.

Q305 ETECTRONIC COMPLETERS V-4-5.6 Bests with completion operations, pergraphing, number systems, logicitatis, aptimatics and montory obtained is, uport-mitput devices and control obtained as (5/3).

1353 SUSTRUMENTATION V.3 Studies real-methodises employed in measuring okerareal, mechanical and http://gostup.org/end/asternet/com/12/35

U0.36 ADVANCED ELECTRUNIC PROBLEMS V.3. Covers modern advances in Decramos Cochadagy, discusses nondevices with application, and states markets techniques of *Artan* analysis with deciptors on addration of the complete US(2).

0342 F.C.C. RULES AND REGUSATIONS V-2 Incides ratio (aves) rates and regulations operating procedures, such a review to: Requeelesanihilitian. (70)

 $0\%35-SPECIA6, PROJECTN <math display="inline">$V^{2}$$ ABarss the student to develop, test and write prepart on side of none projects, 0.00

0636 DESIGN PROJECT V-3 Allows students to corrach, develop, and test a project, and then to write a four at report on the project, 30/71

ENGINEERING (Engin.)

Vocational Technical

0858 STATICS

Includes finadizmental terms resultant and equilibriant forces, moments, non-corrent coplaner forces, traves, static and kinetic friction, hydrostatic loads, (6/4)

0738 KINEMATICS OF MECHANISMS

W.S

 V_{1}^{2}

Studies definitions, vectors, basic motion concepts, kinematic drawing and displacement control (mys) opprove control, velocities in mechmistris, accelerations in mechanisms, motion curves, cano, gears, powertears, and mr. canoous, 1976).

- 0824 DYNAMUS V.7

Presents basic principles of dynamics, kinematics of realiturear meteors, convolution, motion, kinematics of relation, and kinematics of relation, (6/4)

0018 MACHINE DESIGN V-7 Studies engineering portsticls, stresses in elementary introduce members design stresses and tootor of sole (y, cylinders, pipes and tubes, metal CG and followness, Bg1 plate and evaluate books, reveal solits, writige

jointy. Urbeaded fastoners and power screws, kayes and knuckle jointy.

sualty, bearings, cooplings and Carches, prefers and spring, (2014) 0150 ENGINEERENG MATERIALS V-7 to (actes, properties, of uniterials, stress, strain, finishes, testing of marging, activation, basic metailogy, (10)

1335 STRENGTH OF MATURIALS 91 V-5 Others an in-depth study of frames and coloring norbiding diver and moments, deformation, and deflections. Also combined stresses and statically undereconduct beams, US/01

FOREIGN LANGUAGES (F. Lang.)

College Parellel

0767 ELEMENTARY FRENCH 1 P4 Includes the French languages with emphasis on development of small and kults, Reading and writing introductd, (400)

0859 ELEMENTARY FRENCH II 94 Continues elementary French I. Development of an obsetal reading and writing static continued. (4)(0) Preusy Elementary Preus's I are equivalent.

0142 INTERMEDIATES RENTHAL P.5 Reviews the basic principles of the French Istoprage. Fullinged

development of social-oral skills, Frontion in writing friench, Korphasis an development of reading skills, using tests from contemporary literature, (3/0) Portog Flomentary French III or equivalent.

OP3.2 INTERMEDIATE FRENCH II P-3 Contractes Intermediate French I, (390) Prezon: Intermediate French I or contracted).

0332 INTERMEDIATE FRENCH III P-3 Coptopols (generative French II, 070) Prency Intermediate French II or encountering

1313 FRENCH CIVILIZATION (P-3)

Provides readings on France and the French people. French, the provinces, the prople and then well of alls, Employis an developing listening, speaking, coading skills with since attention given to writing. Use of English we be unnited, (200) Prereq: Intertoosliate French III of equivalent.

1317 FRENCH CIVILIZATION 0 P-3

Provides readings on French (addary from the table of the Gauly to present, Contemporary topols will include pollars, indicas, education, the economy Development of listencing speaking, reacting skells will contract with gotte writing. Use of fittglish will be minimal, (3/0) Project French Gythzation I or equivalent.

1571 FRENCITCIVILIZATION III P-3

Provides regions on the cultural horizage of tradections the Model Ages to modern cines. Topics will include fitzentiure, music, and dratea Development of listening, speaking, reading skills will continue with value writing. Use of longition will be minimal (3/0) Prerog: Fortich Civilization II or equivalent.

OS78 ELEMENTARY GERMAN I P-4 Introduces the German language with emphasis or coveragination of aural-and skills. Reading and writing introduced. Contour will put be offered before 1971-72, 1370)

(676 ELIMENTARY GERMAN II Contracts: sleptentary German 5, Development of anal-oral, (ending)

Contracted elementary German 5, Development of antiborel, oudrog and writing skills continued. Course will not be offered before 1975-72 (4/0) Prereg: Elementary German For equivalent.

0769 ELEMIENTARY GURMAN [II [24] Continues elementary German U. Concentration on terraboral solits and an readme. Concer will not be offered before 1971-73. (4/0) Protog-Elementary German II of conjudents

O675 ELEMENTARY SPANISELI P-4 Introduces the Spanish tanguage with emphasis on development of angularial skills. Reading and meting introduced, (475) 0708 FILEMENTARY SPANISH 11 P-4 Continues Elementary Spanish I. Development of aurat-caal, reading and writing skills continued. (470) Proreq: Elementary Spanish I or equivalent.

0660 FLEMENTARY SPANISH III P4 Continues Stoneoury Spanish B. Constonration on aural-oral skills and an reading (4/0) Prease Elementary Spanish Clipt equivalent,

(105.3 INTERMEDIATE SPANISEI P.4 Reviews the basic principles of the Spanish longuage. Continued development of aurabonic skills, practice in volume Spanish. Emphasis on development of reading skills, using the texts from contemporary literature. (3/0) Poercy, Elementary Spanish El or equivalent.

0143 INTERNEDIATE SPANISU II P-3 Continues Intermediate Spanish 5, (5/0) Preroq: Intermediate Spanish I or consoler).

0200 UNTERMISHATE SPANISH RI P-3 Continues Interpretate Sparish II. (370) Preseq. Intermediate Sparish II. or isprivalent

[15] J. HISPANKC CIVILIZATION U. P-3 Provides readings of Spann, the periptic and the fand, history and scrys at life. One of the Forgl so far period will be minimal. Course with nor be offened hypers. 1971-72, 13700 Provide Intermediate Spanish III or equivalent.

1305 HISPANIC CTVILLZATION II P-3 Provides manipuly on Mestrin, Cobs, Paterio Rice and Centre, America, The people and the land, fusiony and ways of life, Use of English with be informal. Course wild not be offered before 1971-77, (176) Prereglateomediate Sparish iff or equivation.

1009 ERSPANIC CIVILIZATION III P-3 Privides readings on the South American maintries. The population the land; history and ways of life, Use of English minimal (conse with not be offered before 1002-72, (3/0) Preseq: Intermediate Sponish III or equivalent.

GEOGRAPHY (Geogr.)

College Parallel

(1493) HDMAN GEOGRAPHY P-4 Stat as the grogaphy of population and principle ways of the with consideration of the cupacity of the earth for follow population, (4/0)

0452 PHYSICAL GUOGRAPHY P-4 Features or contribution passente of clumple, topography regetation and soils. Regional differences on problems of physical development are soulded (4/0).

ħ6.

GRAPHICS (Graph.)

Adult

6237 MECHANICAL DRAFTING AND BLCOPRINT READING

intraduces base drafting vacabulary and use of vocational tools such as slide rule, producid uses of pasts pleeprints and perspective drafting.

11-3

Vocational-Technical

1404 – GRAPHIC SKILLS $$\rm M_{\odot}$$ Develops basis drafting skills fright tendoned and a thelayant extrainents, 0122

IISO 2 TECHNICAL ELECTRONSC DRAWING V 2 Studies the theory of orthographic projection, formularization with detering justical-costs matrix also and drafting produces and applied to occurs mass. Studious do notes a block diagram and a schematic diagram of superburiadyce receiver, (175)

(1333 MECHANICAL DRAFTING 1 V-6 Covers lettering, of tographic projection, pictorial drawing, size control of mating parts, dimensioning, complete ilogial working drawings, interventions and developments and structural drawing, (1714)

0427 MECHANICAE DRAFTING I V-6 Communes Mechanica, Drafung I 1714

OS18 MECHANICAL URAFITING UI V-6 Contempes Mechanical Dizfone Load II, (1714)

0607 APPLIED PROBLEMS I V-2 Lacolizes the condent with antibag problems in additional and geomeicy, applies noise of algebra, and trigonometry and with stafting problems using logarithms, (005)

0726 APPLIED PROBLEMS II V 2 Computes Applied Problems 1 (005)

(b) M = ARCHETECTURAL DRAPTING I V 12 Gaves Steep system, anthographic projection demonstrating, liev quality, southing, perspective, is the top 17770

(2020) ARCHETECTERAL DRAFTENG II V-32 Traches the process procedures in dyachoping site place, about place threefing place. Owe place, and tracting placet electropy, cut were wetiges, 12(27).

(1) 84 ARCHVTECTURAL DRAFTING III V-11 Uwars the dividep heat of details (steven rate for doors, wirdows, and foaming are covered, and fittisking as related to trollwork and scheduling. Socients also learn to atolize reference materials and develop finte-serving techniques. (7/30)

0.008 ARCHITECTURAL DRAFTING 3V V-14 Reps. the student develop a fall set of working drawings from a schematic dowing (1/24)

0337 ENGINEERING DRAWING 1 V-6 Density of a metruments and their way, lines and leftering, geometric constructions, eribographic projection, and sketching (2/8)

C130 ENGINEERING DRAWING II V-6 Studies precorial drawing, austiliaries, stetioning and developments, (228)

0522 ENGINEERING DRAWING HE V-5 Includes demetweening. Fits and timits, fasteness, and working drawaips, (1/9)

07112 DESIGN PROBLEMS I V-2 Contrementes un design principles, design procedures, design problem observations, devign problem soli tions, layouns, working dravongs, design collutions, sweech attoris, and vendor research, (200)

1331 DESIGN PROSILIMS II V-6 Inductes instituation in design principles and procedures, problem observations and problem substance. (399)

0301 RVALATSID DISCHPLINES V 2 lackdes piging, plumbing, odd sid, with still durits, different systems, and bas durits and conducts (deciring), as they relate to the develop ment of an bits, but dataset ages (20).

1416 GRAPHSCARTS LABORATORY 1 V-10 Introduces the prinning processes of letterpress and libergraphy. Layout still design, rold type composition, fundamentals of typegraphy, neglicity and predipositing, mathematics for printers, and a strong of blyochal events in the development of graphic arts, e0(75)

1419 GRAPHIC ARTS LABORATORY II V-10 Curtimers Ocasine Arts Exhoratory 3. Infhographic cancel and destribute stripping and platematery, introduction to lefterpress and ittingraphic press overapion, but and cold type composing machine operation and a study of paper, ink and meallurey, (0,25)

(123) GRAPHIC ARTS LABORATORY III V 10 Community Graphic Arts Lib II, Advanced I Cosympton trajalog in the tres, of photo-construction, pasterioakone, contens, darktorism factorigaes, stepping photo-casing and presexuous introduction to public morstyle, market and makeup (10/25).

1357 GRAPHIC ARTS LABORATORY IV

Continuous Souples Arts Left III. Management practices, estimating and a cst is only six, production problems, plant organization and loyout, industrial relations and tob preparation. For the major portion of this quarter the stiglent will concentrate in the area of sistingraphy analysis (ytterpress, 10/05).

1364 GRAPHIC ARTS RELATED 1 V-5 Offers extruction refered to the proting processes of httography, 'stherports, graphic flexography, and silk series. Typegraphic layout and design, graphic arts localitationy of graphic arts up to present jetheological (dvencements, and slop tafe) 4, (5/0)

1365 GRAPHIC ARTS RELATED II V-5 Continuers Graphic Arts Related 4. Instruction related to contera and virknown operation, principles of operation of utilographic and (riterpress pulting presses that and order type composition, and a lose speak of paper, lick and morely used in the approx arts (3/0)

13e9 CRAPHIC ARTS RELATED III V-8

Contractor Graphic Acts Related II. Instruction celoted to preparation of a optimation the various printing processes confiding publication style, marking and in (keep: 15/0).

(1773 GRAPHIC ARTS RELATED IV V-5 Commutes Graphic Arts itelated IB. Instruction in estimating, production, wordfuling, plant organization and layout, industrial relations and employer-employee responsibilities. (\$70)

College Parellel

0805 ENGINEERING GRAPHICS 1 P.3. Includes study of sketching, lottocing, heeristid drawing, the lose of drawing instruments, and principles of projection (7/4).

0896 ENGINEERING GRAPHICS II P-3 Contracts high-complexities 1 (2/4)

HISTORY (Hist.)

Adult

88

07%6	AMERICAN HISTORY (H-3
	American locary beginning with the fast #uropeyn	explosa
trais of	the New World through Reconstruction.	

0489 AMERICAN JUSTORY II H-3 Continues Anterican Environment In Present.

H732 WORLD HISTORY H-3 Prevent Instructual forms relating the pass to the present Studies a bound-listed for signal of world events and exploses the theories building to prevent world structors. College Parallel

¥ 10

O211 U.S. HISTORY I U-4 Subveys the stocal, political and economic distory of the United States with emphasis on the forces resulting in the emergence of the new names through the age of Jackson, (4/0)

(0303 - U. S. EIISTORY D P-4 Susveys fac kacial, peditical and economic sustory of the United States from the US40's directly the Progressive Era Proreg. Nate, (140)

030. U. S. FIISTORY IXI U-4 Surveys the social, political and evanomic history of the United States fram Woold War I to the present Prerval None. (4/0)

0918 WESTERNATIVIRUZATION | P-4 (Part of a three-quarter onlingt-perallel study) Designed to present and explore the social, computing political and cultural basis of the Western World and covers from the Muldle Ages to the Triaty Years War. (4/0)

0081 WESTERN CIVILIZA (RON II P-4 Continues objective of Prior Quarter Istudy and Covers from the Thirty Years War to the Treate of Viennal Presing None (4/0)

(i)[75] WESTERN CIVILIZATION III P 4 Continues objectives of three clocker study and covery light lightly of Vients to the present. Presed None (4/6)

15115 BLACK HISTORY P/4Introduces the historical experience of Also Americans from the ordeal of highly by 1619 to the present, with special complians on the period since Reconstruction, and Highly charging as reflected in the writing of leading figures in the Highly experience. (A/O)

1501 INDEPENDENT STUDY IN THE

SOCIAL SCIENCES (U.S. HESTORY) P.0.1, 2, 3 Provides readings, papers and/or basis, pression projects under the indicad all guidensic of the staff member. Consent of mellicator and Appartment chalmagnet required before registering.

[N]G INDEPENDENT STUDY IN THE SOCIAL SCIENCES (WESTERN CIVILIZATION)

(Size course description above.)

P-0, 1, 2, 3



HOME ECONOMICS/HOMEMAKING (H. Econ.)

Vocational-Technical

0.299 FASHION DESIGN

Applies basic out principles to fashion meriopoldise. Prioritic and experimentation with the stape, color, and texture are included, tikall in sketching and creating fusion design is developed, (4/0).

0388 FASHION HISTORY

Studies development of costome design from the Middle Ages to the present with influences of the past are related to presented g favorant tranks (550).

0507 TEXTILES V3

Spalles then choose this, yere processing, follow construction, and tables if mobiling. The qualities of fylcrostare analyzed in relationship to fylcrost of design, strength, and subalative (5.59)

0805 TEXTILES LABORATORY V-2

Studies, propagates, of reference and filters. Offices disocted laboration, activities which provide knowledge for fabric identification and unalysis of him characteristics. (1/2)

LAW/LAW ENFORCEMENT/CORRECTIONS (Law)

Adult

Q130 BUSINESS LAW HI-3 Employizes the legal problems of the bayesing Studies weat problems common to the consumer

Vocational Technical

9257 APPLIED HUSINESS LAW V 3 Surveys precurptes of law as upplied to business and employment structions, 13:09

0397 D.C.C. RULES AND REGULATIONS V-2 Includes radio laws, toles and regulations, operating procedures and a resign for hences examination, 0209

Q339 - MEDICAL LAW V 1. Studies inveligat jurispushence to relation to medical assistanty and the physicals, 11(3)

College Parallel

V-2

V-3

0131 ADMINISTRATION OF JUSTICE P-5 Studios argest, search and sociale, review of court systems, parabilities from incident to field disposition, proceeder of constrainers), redeal, date and opticial we say they apply to action flow optics entergy. (500)

059) BUSINESS LAWT	P- 3
Surveys (the plus of law as applied to business relationships, then a way 1950)	174
Ingerspetteres (1900)	

0004 BUSINESS LAW II P-3 Studies patienchips and corporations, teal property, regotishle extraments, sales, instances, locals and estated government and locajoes. Partsy, Business Law L (300)

151n CORRECTIONAL SERVICES IN THE COMMUNITY P.4 Storeys and geolesies community and regional resources available to the correctional geolesis, hosphysis, is ployed on vacational reliabilitation, employment services, welfore services, child guidante and menual health envices and clutters, and professional and private volunteer vervices and agencies, (4/6)

0041 CRIMINAL BVIDBNCE P4 Studies the kinds and degrees of evidence and the rules governing the admissibility of evidence in coust. (4/0)

0830 CREMINAL LAW 5 P-4 Part of two questes study. Explares the philosophy and basis for law: the instanced development of criminal law and procedure: the structure, dependent and criminal laws of towa. Preseq: None, 14/00

C020 URIMINAL LAW II P4 Partial two quarter study, continues topics of Critainal Law I. Need not be preceded by Criminal Law I. (4/0)

1527 INTRODUCTION TO CORRECTIONS P-2 Dilets a espectorizated examination of the listery and photosophy of the connectional process from law enforcement through administratical of justice, torrectional instructions, probation and parole, (2/0)

C531 INTRODUCTION TO LAW INFORCEMENT P-2 Covers the philosophy and history of law inforcement, overview of critec and police erablems, organization and jurisdiction of local state and faderal law enforcement operates, survey of professional error opportunities and qualified tenversplined (200).

1515 PROBATION, PAROLE AND PARDANS P-6 Surveys the organization subscripting of the conscription process, Probation, parole and products as applied in the computibily writing. (40)

1513 PRINCIPLES OF CORRECTIONS MANAGMENT AND SUPERVISION

MANAGMENT AND SUPERVISION P-4 Studies the principles and methods of correct anal supervision, managenicur, admitstration, and evaluation. Emphasis is placed upon budgeting and control, wild' rectainteen and development, administrative decision-topking and public relations as they relate to the correctional writing (4:0)

LIBRARY SERVICES (Libr.)

College Parallel

1067 INSTRUCTION IN EDUCATIONAL MEDIA P-3 Covers the planning and production of different (special projected and non-projected teaching materials for use in the classroom, selection, athranion, and evaluation of zurisoviscal materials in educational programs. Protect Nate, May not apply toward library teience major when credit is transferred.

(#18 INTRODUCTION TO THE USES OF THE LIBRARY

Introduces the detest of library personnel and comprehensive survey at brocks and theorem, with conjensive upon the near kinds of theory noterists, dot; on pulkation and suppopulation and suppopulation for the preparation preparation $\chi_{2}(0)$

0091 LIBRARY LITERATURE P-3

Considers approximated materials contrained in most filtuary collections, including reference materials, cutalogs, indexes and periodicals. May not apply 10ward library science using when crudit is transferred. (173)

0925 LIBRARY PROCEDURE P-7

Provides an understanding of the function and errangement of library catalogs, the ordering, and typing of values cards and the ATA filling system for the card catalog. May not apply toward library sciency major when chalities transferred. (173)

074 UBRARY ROUTINES P 2

Gives theory and practice in the basic runtimes of library prevedure. This will include an understanding of the history of fibraries, the Dewey Denimal System, and the kinedation, logation, and sherving of Neeks May net apply toward library science object when report is transferred. (1) Sr

0801 TECHNICAL PROCESSES P-2 Covers practicles and practice of workroom procedures invalving the proparation, of new materials and the copair and maintenance of the curtent collection. May not upply toward library science major when credn is transferred. (1/3)

LITERATURE (Lit.)

College Parallel

12 S

0.222 - AMERICAN ARTS I $$\rm D_{2}3$ Explores entries American set forms and their interestants. The emphasis is understanding and interpreting the variatal expression of our times (3/4)

0073 CHILDREN'S LUTERATURE P-4 Surveys of children's books, analysis and discussion of confidence's reading interests and abilities. Pretrag: Composition II at equivalent. (4/0)

(J432) INTRODUCTION THELITERATURE I P4 Introduces the techniques and purposes of the novel and the angle struct. Bath lowers based on students interests, breadening and refining these juteness. Intensive analytical and unterpretative reading and extensive dompargane reading will be pro-enterband empires students' lifetimy taxtes. Je addition to base lexits, supplemental sessing lists will releas students to a variety of library reading to the most and short story. Press, Composition 1, (476).

(3524 INTRODUCTION TO LITERATURE II P-1 The pertointy purposes and knods of dramatic works will be analyzed, and extensive comparative reading will indicate some of Steinghtkart types and forms used in dramaty, convention its addition to the study of a number of individual plays, supplemental reading (ars will refer students (or variety of dramatic works, Preney, Composition 11470)

(619) INTRODUCTION TO LITERATURE (I) P-4 Develops skill in interpreting the elements of the formal transplay of party and evaluates different theories of non-participation meaning. One study develops a perceptive acquipmente with a large mather and variety of the world's positive. Pretrap Campasitian L (4,0)

0663 MASTERPIECEN OF WORLD LITERATURE I P4 Analyzes refected writings from the Bible, Greek drama, and Greek and Roman narrative poetry. Parinarily these works will be approached on their contentional basis with some attent on to style, meaning, and form. Proton: Composition II or equivalent. (470)

0757 MASTERPIECES OF WORLD.

LITERATIORE I) P.4 Studies epic poetry of the medicical period, sume of Chaucer's works and some of Stockespears's plays and peetry. These works will be explored using generic, seesi-cultural, ingetical and comparitive approaches in combination. Peregr Composition II or equivalent, (4/0)

0845 MASTERPHECES OF WORLD LITERATORISM P-4

Discusses selected prose and poetcy of nineceenth and eventieth century fusope and America Works will be read as masterpieces of an

and studied by supplying a combination of currest approaches. Pretage Cop position (1.5) equivalent, (4/0)

MARKETING (Mktg.)

Vocational-Technical

1261 ADVERTISING TECHNIQUES

Studies the impact of sile contamin, sociological and asychological appends of advertising. The student receives instruction and practical experience in the areas of ad layout, copy writing, display, design, and sons to often

V.3

V.3

Y-3

1503 AGRIBUSINESS SALES

A continuation of Principles of Solling, Psychology of solling, meeting, the desterner's needs, sales call planning, answering objections, and closing will be emotivated (3:0).

04-10 AGRICULTURAL MARKETING V-4 Studies the role and functions of producers and wholesalers, marketing, systems, marketing levels, product transportation, collective bargatoing.

systems, markering levels, product transpectation, concentre surgaranggate determinants, seasonal and supply cycles, and an analysis of cost factors affecting production and distribution.

[28] ADVANCED AGRICULTU/RAJ, MARKETING V-3 Symphasites instituting principles, polycles, and graphems, Inductual resultating problems and reports are assigned to help the student see the day-syndry application of marketing principles. Also covers the Eutures Market.

0495 CUSTOMER INTERPRETATION V

Emphasizes orderstanding special needs and wants of the factor-consistent $(M\theta)$

(11)2 FASIHON MERCHANDISENG LABORATIORY V-1-2. Provides individual projects relating to the relating of fashian products. Offers the stochant the opportunity to discuss and analyze on-the-jobproblems in a group situation. (2-3)(0)

0369 PRINCIPLES OF FASHION

MERCHANDISING V-3 Provides a historical and evolutionary intraduction to the field of fashion netroliting sociological, psychological, and economic asprofix of fashion. Fashion featurelogy, fashion cycles, and current practices in fashion setailing, (3)05

0572 FASHION SHOW PROCEDURES

includes the principles of (schem show production) planting, cantoducting and directing the fashion show, 00(0)

08/20 PROBLEMS IN FASHION MERCHANDISING V-2 illelps the student cotograde and apply his knowledge of faction into chandising, through case study analysis. Includes consumer momentation, printed knowledge, fashion providention, and excutive leadership. (2.6)

0591 FUNDAMENTALS OF RETAILING V-3 (Orfered to Horticulture Center students.) Develops an understanding.

(Offered to Northualfore Center students). Develops an industal ding of basic renating operations, including limitan relations, depontation, location and layout (NO).

0.449 FOOD STORE MARKETING LABORATORY V-2 3

Prevides variants insight trend, priordings to practical problems in food marketing, with special emphasis given to the terimical study of the fixed interchandides field and the development of spatiets through the use of the bond Store Marketing Submitting Schlittes (S/b)

0436 INTRIDUCTION TO FOOD STORE MARKETING

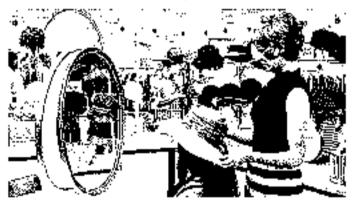
V4

 $V.\lambda$

Offers an introduction to the spectalized field of feed merchandising. Study and insteads will be based on the principles, practices, and procedures relating to the relation and wholesale fixed industry. (4/0)

0159 FOOD STORE PLANNING AND LAYOUT

includes the study and actual development of the organization and planuley necessary to properly merchandise and lay but a second or whelesole food operation. (5/0-6 w/s.)



1309 MERCHANDISING V-3 Anguants the recall marketing student with functions of merchandising, such as merchandise purchasing, channels of distribution, pricing and inventory circle(\$2056 with)

1283	MERCHANDISING TECHNIQUES	V-3
Souties	controbundising at the farm supply conter making	a mæket
\$0,7269.	toulding an advertising releader, precising an a	dvertising

ą:

Analysi, writing advectivements, construction displays for use at the form supply corrector al community events such as county fairs and planning and using protocolor days.

1403 PRODUCT MERCHANDISING V-3 Provides specific instruction and activity in bandung products of the tood industry, with special emphasis on produce and meat operations (\$2066)

0804 PRINCIPLES OF ADVERTISING V-4

Acquisities the student main the photosophy of advertising, association, concepts of and produced applications of advertising at the local and national local. Includes methy and matter description, copyonating and layout with an en-phasis on product selection for advertising. (4/0)

1411 PRINCIPLES OF DISPLAY V-2

Offers basic instruction in display construction, the relationship of display to the total promotional program; the role of the display manager, elements of display design, construction matchingly, merohandise selection and the actual display construction. (200)

1319 SALES TECHNIQUES AND HUMAN RELATIONS V-3

Studies the act of getting along with poeple with special confluences being placed on customes relations and siles situations. Employer-employee relations and co-worker relations are also included, (3/4)

1505 STORE SKILLS V-3

Directly propages the student for employment experience: employment experience orientation, employment experience records, employment experience evaluation, and working with peoplet. (3/0)

0737 TRENDS IN RETAILING

Provides the student with an understanding of what recailing is and how it has developed. Many types of recail institutions are pointed out, as well as their advantages and disadvantages, (3/3)

(ii)(19) RETAIL MARKETING LABORATTRY V-2-3. Designed to bein propert students for threaters in relating. For majority of laboratory back is set asked for individual student help. Students are also given time to investigate relation supertunities, prepare reports, and complete projects related to these individual costallog intelests. (\$30)

0782 FUNDAMENTALS OF SAUESMANSHIP V-3 A have receive to presentl selling reveniques. Fundamental principles revered to to de developing the value principle presentation, ele aug illicitative and anview after the value (370).

College Parallel

0087	PRINCIPLES OF MARKETING	P-1	
Constant.	elia	والمتحالية بالمحالة والمحالة والمتحكان والمحالة	

Studies the oclusion institutions, proceedings, methods, and problems in provide subscription (4/0) - in provide an extension from the produced to the construction (4/0) -

0926 PRINCIPLES OF RETAILING

Stottes cotailing and its functions in a free enterprise system. All facers of cotail optimizers, are considered including planning, organization, petstonel, facilities, control, pricing, baying, reding and promotion. (4/0)

0923 PRINCIPLES OF SETLING P.3-1 Studies selling of goods and services and the effect of this area on the ordere field of business, with special empirizant placed on the psychology of selling, (4/0)

MATHEMATICS

Adult

V-3

0481 MATHEMATICS H-3 loctures general mathematics based on insterial programmed for codinations speed and skill-building. General emphasis of classroom work determined by needs of those enrolled.

Vocational-Technical

1294 AGRICULTURE MATHEMATICS V-2.3 Includes instruction or areas of sales tickets, mark-ps, doeo and, stock term over, weges, and Ocloculous, stock dividends and pottor.8go refunds, inforest obliges, taxes, depreclation and office procedures. (3/0)

0208 BASIC MATHEMATICS III V-5 Ottereal for students in the Medicaneal Disfisman program. A continuation of Basic Mathematics II, (570)

1267 APPLIED CALCULUS FOR ELECTRONICS I V-2 back of control of the statistics of the statistics and

Includes a study of limits, derivatives, differentials, maxima and non-max, and simple integrals. This ensure plus Applied Calculate for Flexing dies of any be substituted for Technolog Mathematics $\Omega_{\rm eff}$. (2/0)

P-1

1.964 APPLIED CALCULUS FOR ELECTRONICS 15

Compares Applied Calculus for Electronics I, and methodes a study of primal derivatives, integration techniques, differential oppations of dimfrance series. This course plus Applied Calculus for Electronics I may be substituted for Technical Mathematics III. (200)

0224 FINGENEERING COMPUTATIONS MATHEMATICS (

Strates of the state rule C. D. Cl. and folded soules, kilds rule R3, R2, graf K sester, scientific motation, geometry coview, fitcles and trangles, filds rule solutions, and dimensional analysis, (2/2)

132: ENGINETRING COMPUTATIONS V 2 MATHEMATICS II

Deals with slide rate ring scates, logarithms, tables and interpolation, state ring and logs, and calculating machines, (2)(2)

0853 MATHEMATICS IIC V-3 (Mathematics for business data provessors.) Studies syncholic logic, set

(Mathematics for business data provessors), Multice syncholic apple, (0 Inency, Roadeum Alprices, and probability (heary, (5)0)

0377 MATHEMATICS /II

Continues Mathematics IIC. Matrix theory, linear programming, and curther development of topics considered in the first vestee. Application of multiomatical techniques to business problems is emphasized. (3.6)

0884 MERCHANDISE MATHEMATICS V-3 Deals with federates and principlores of determining profils, priving of goods, inventiones and merchandres control. Some of the problems faced by merchandisers are presented, analyzed, and solved. (5/0-6)

0519 TECHNICAL MATHEMATICS V-3-5

Includes stundamental concepts and operations, functions and graphs, it gonophetics principles, breat equations and deletimizants, factoring and traditions, quadratic equations, voctor algebra, such exponents and reducists. Lemmasks is placed on applications to reconcilege, (3.5/0)

OSO2 TECHNICAL MATIEMATICS II V-S Centrities Technical Mathematics T and includes a wordy of legarithms, included a trigonometry of right and solving a triangles, antisylical trigonometry and applied productry (570)

0613 TECHNICAL MATHEMATICS IFE V-3-4

Continuous, Technical Mathematics Land focustors a study of logaritique, the propertor systems of equations, inequalities, variation and prograssions, supervertigenometric functions, elements of application geometry, and introduction resultations, (5/0)

0057 TECHNICAL MATHEMATICS III V-4 Includes a study of literist derivatives and differentials, recently and runtima, integrals, garted derivatives, integration techniques, and infinite series. (4/0)

0710 TECHNICAL MATUPMATICS HC

lex-lodex the j-operator, expansits and radiculs, logarithms, linear equations and deterministics (3/2)

0111 TECHNICAL MATHEMATICS HIC V-4 Covers algebraic fastoring and fractions, quadric equations, graphs of trigonometras functions, and applied electronics problems. (3/2)

1397 SL(DE R)(LE V-1 Studies use of the state role and concentrates on the -C, D, CL, D1, folded, rout, log, and trig scates, (1/1)

MECHANICS (Mech.)

vocational Technical

 $\tilde{v}_{e,2}$

V.2

V-3

US74 BASIC HYDRAULICS V-3 Covers fundamental principles of hydraulus, including properties of fluid, itaw, resistance and controls of fluid pressure, (1/4)

0455 HYDRACLICS V-3

Concentrates on Equid Low, pressure gauges and volume meters, fittings and sents, simple valves, and compound and pressure reducing valves, directional valves, introduction to pamps, centrifugal, propellos and rotary principal piston pumps and motors, and hydrautic liquids and systems. (274)

 $0672-\Delta PPLED(HYDRAULLCS) V.3 Southes use of pumps, include, sources and other hydraolic equipment, <math display="inline">(1/4)$

1269 AGRICULTURAL EQUIPMENT OPERATION V.S. Teatures actual operation of farm machines and machines used (a rite fertilizer and feed industries, includes adjustment, machines, surfsafe operation of this equipment, (1/11)

0540 AGRICULTURAL EQUIPMENT PRINCIPLES 1 V.4-6

Covers associality, adjustment and meintenance of agriculturest and light and islead, equipment. Occupational orientation, safety, use of long and power tools, and use of reference and service manuals are emphasized. (1)(12)

0633 AGRICULTURAL EQUIPMENT PRINCIPLES 0

Studies major recorditioning and servicing of agricultural and light industrial equipment (1/12)

0725 AGRICULTURAL EQUIPMENT PRINCIPLES III V46

Continues Agricultural Equipment Principles 1 and 01, (17) 20

-93

VА

(APS AUTO MECHANICS LABORATORY I Differs fearnal classcoom as well as on-the job instruction in produces, to complete auto service procedures, automotive so systems, tool sestems, brakes, crive train, etc. (0/20)	V-7.5 n soop ectrical
1939 AUTO MECHANICS LABORATORY II Contrues Auto Mechanics Esboratory I. (0/20)	V-7.5
0941 AUTO MECHANICS I ABORATORY III Continues Auto Mechanics Laboratory II, (0/20)	V-7.5
[343 AUTO MECHANICS LABORATORY IV Continues Auto Mechanics Usberatory III. (0/20)	V-7.5
0938 AUTO MECHANICS RELATED 1 Shop publices, safety, mathematics, customer relations, and san employee relations, (10/0)	V-7.5 ployer-
(944) ACTO MECHANICS RELATED If Continues Auto Mechanics Related I. (1000)	V-7.5
0942 AUTO MECHANICS RELATED III Continues Auto Macruanes Related II. (20/0)	V#3
1.339 ACTO MECHANICS RELATED IV Controlles Auto Mechanics Related III. (10/0)	V7.5
0626 COH LISION LABORATORY? Instruction through its turns, discontext, visual ords in work on vehicles in accordance with instruction shorts and shop thand under the supervision of the material or. Practice with metal in and dinging, oxyacetyšens and are welding, metal structure, le grinding and structure, and proparation for psioting. Proporties of grinders, power drills, and hydraulist body and frame jacks, (0/25	als, and amping solings é prove
0934 COLLISION LABORATORY II Continues Collision Laboratory 1 (1995)	V-10
6936 COLLISION LABORATORY II Confidence Colligen Laboratory II (1025)	V-10
0933 COLLISION RELATED 1 Provides instruction in screp processes and responsibilities management, samp responsibility, estimating 45/00	V-S Çiriy
0935 COLLISION RELATED (I Continues Collision Related 1, 15/0)	V-5

 (9937 COL) ISION RELATED III
 V-5

 Continues Collision Related II. (570)
 1090 DIESEL DIAGNOSIS AND OVERHAUL

 V-8

Offers instruction to the diagonsis and overhout of diesel prover unites with emphasis placed on speed and accuracy of work.



Q878 EMPLOYMENT EXPERIENCES V-6-10 Signweek employment expectence periods, scheduled to apply compeiences learned in the classroom and laboratory and to develop the ability to work with people.

OP42 ENGINES AND SYSTEMS V-6 Includes construction, operating principles and components of goodate

and diesel engine systems. (2/8) 1523 – FARM MACHINERY V-7

Permutes actual operation of farm maximizes molecting adjustment, maintenance, and safer operation of the equipment, $(\Omega/10)$

College Parallel

11706 ANALYTIC GEOMETRY P-S Includes (wint and plane voctory, direction cosines, the straight tipe, the station, the sources, transformations of the axis, polar considerates, the prior) and space vectors, surfaces and curves, (570) Prevent: College A gebra and Eugenometry. 0755 CALCULUS 1 P.S. Includes limits, derivative, differentiation, the differential, elementary applications of valuatus and introduction to integration, (5/0) Pyrragi Analytic Geometry. 0846 CALCULUS II P4 Continues Calculus I and includes the study of the integration integration . methods of integration, parameters equations, and improper integrals.

(4/0) Provey Csillades 1 (00) 2 CATAOULUS III P-1 foldutes study of indeterminant forms, infinite series, series expansion of functions, partial differentiation, and moltiple integration. (4/0) Preven, Caloutus II.

0532 COLLEGE ALGEBRA

P.S

includes the real normby: system, 0160rg of equations, complex numbers, southermatical induction, nothered, functions and their graphs, including (oppithens, (5/D) Piezeq: Intermediate Algebra of one and one-half years of high values signles and and year or high school geomy iry.

P-5 0182 DIFFERENTIAL EQUATIONS Designed for the student majoring in mathematics as in engineering. Queliades solutions of differential equations, equations of first order and from degree, variables separable, exact equations and reduction to exact equations, and linear equations, geometric applications; and physical applications (15/0) Present Cilculus III.

0060 ENGINEERING PROBLEMS P.2 Studies use of the klide rule and computer and the utilization of problem salving techniques in conducting, (7/0) Princip College Algehis and Ergineering Graphics I and U

1434 INTERMEDIATE ALGUBRA 3A P-3 For students who do not have sufficient backproand in math to enterthe regular sequence of math courses. Also for those students of Libraal Arts whatneed only one much course. NOTE: Both 3A and 3D must be taken to have transfer specify (3)(0) Frenzy: One year of high school algebra or permission of the instructor.

1435 INTERMEDIATE ALGEBRA 3 B P.A Continues Informations Agence 3A, NOTE. This covers must be taken to have transfer credit for intermediate Algebra, (5/0) Prefet-Internations Algebra 3.5.

P.5 0442 MODERN COLLEGE MATHEMATICS (For the non-math major who desires one covere in Mathematics) Includes deductive logic, language of sets, geometry, pute and upplied mathematics, notural and seal nombory, logst of algebra, asybnicitial computations, durations, statistics, and probability, (S/D) Period. One year of high school algebra and geometry.

0674 FUNDAMENTAUS OF STATISTICS P-5 (Designed metally for business students.) Includes descriptive statistics (mean, median, mode, standard daviation and variance), probability, lanear repression and inferential studietics will be covered. (5/D) Protect College Algebra of consert of department-

P.S0649 TRIGONOMETRY Studies real numbers, completeness projectly, fatablicto, cavour 500-5 tions, periodic functions, are length. Irigonalitatric functions, identifies, suverse trigonometric functions, graphs, exponential and the logarithm topenions, and applications, of easinembary functions, (5/0) Presidu-Intermediate Algebra or one and one-half years of high velocit significaand one year of high school geometry.

7-3 7 Construction of the second of the seco

2981 SMALL ENGINES AND EQUIPMENT V3includes specification and data for the 2 and 4-dvale engine Knowledge of the function and operation of small engines used in Ontemental Horticulture, (3/3)

V-3 1084 GAS ENGINES Instruction in small gasoline engines such their applications to the agricultural equipment industry, (1/S)

1085 GASOLINE DIAGNOSIS AND OVERHAUL V-7 Offices instruction in the complete diagnosis and overhead of gasaline power duths. Emphasis is placed on speed and accuracy of work.

0778 ADVANCED HYDRAULICS V-3 Involves the complete overhead, adjustment, and general maintenance of hydraulic systems as related to faith equipment, (2/3).

0904 DOWER TRANSFER SYSTEMS1 V-3 Studios constauttion and operating principles of gears, elutates, transmissions, and other prover learning systems, (2/3).

0065 POWER TRANSFER SYSTEMS II V-3. holoobes functions of automatic transmissions as unliked in darm 00mprient (2/3)

9163 FOWER TRANSFER SYSTEMS III V-C Contonues Rower Transfer Systems Land U. coordinated with Agricutused Equipment Principles IV, 1203)

0480 RECONDITIONING AND REPAIR V-5 Covers and develops the skills used at in oxyscetylone welding, trazing, and any welding, daill press, grithing equipment, and coping while, so woll as painting and recurilstinning processes.

MEDICAL-SURGICAL (Med.)

Vocational-Technical

0098 – DISPASES OF MAN

ν 4 Overst fne infections, intoxications, and tracmatic injuries suffered by (Aan; Their Severicy and Inequency of occurrence; their openis and costruoits; and the conditions and circumstances which result in their transportation or operationer and how they are controlled. (1/2)

1050 INTRODUCTION TO MUDICAL SCIENCE ¥4 Designed to introduce the student to general medical conditions of the body. Efforts are discoved toward promoting a knowledge of medicat ferms and enconderstanding of standard method unbraviations. (471)

0343 MEDICAL LABORATORY PROCEDURES 1 MA(2)An introductory notice divigued to acquaint the student with antole laboratory technologies that may be performed by a medical assistant in

q

a Contor's office. Through doministration, and practice the student learns to perform common tests used in the medical office, (\$15)

0434 MEDICAL LABOR ATORY PROCEDURINS II V-2 Builds upon concepts and skills introduced in Medical Enteratory Procedures I. Includes a study of hematology, electrocardiography, unnalysis, collection of specimens, smears. (2/1)

0576 MEDICAL TERMINOLOGY I V-1-2 Ar. orientation course in the language of medicine. Efforts are directed toward promoting a knewledge of the elements of medical terms and abbrownform. Fourthesis is placed on fedreet prononcipation and correct spelling of medical terms (3/2)

0522 MEDICAT. TERMINULOGY II V-2 Continues Medical Terrangology 1. Parther develops the abdity to spell, define and apply semimology commute in the medical field, (2-4)

0715 MEDUCAT TERMINOLOGY III V-2 Continues Medical Terrainology II. (1/2)

1370 PHARMACOLOGY V-35 Stotless drogs and their medical image. (171)

0681 SUPERVISED CUINICAL EXPERIENCE M.A.1 V-6

Differed in private doctors' offices, clinics, industry or wherever medical treatment is given Gidde: supervision of doctors and registered numes and school instructors. (0/18)

0772	SUPERVISED CONICAL EXPERIENCE	
	M.A. II	V-13
Continu	es Supervised Clinical Experience M.A. 1, (0/37)	

0525 SEMUNAR L(MA) Vo.5 Studies and discusses problems arising during clinical experience (200)

06.20 SEMINAR II (MA) V-5 Continues Section 1, (200

0085 EMERGENCY CARE (OA) V-3

Develops of discharge instructions, including and transporting patients with each injuries, assisting with minor aseptic procedures and bandaging. Also includes fundamentals of first and care and metaods of location ont of specific transpatic and metaods emergencies. (203)

(366 INTRODUCTION TO HEALTH CARE AND PERSONNEL RELATIONS (0A) V-0

Besigned to Entroduce the studient to fundamentals of patient care, salery, and comfort. The student is given overlistion in basic nucsing procedures such as harding a patient, bedrinkling, taking sith signs and admissions of patients. The relationship of the Orthogosedic Assistant with other members of the health care team is Algorized, Englasis (s played on the legal and exhicit responsibilities of the associate. To us of various partonic service areas of the hinspitzles and community will be arranged. (2/3)

0464 ORTHOPATOR CONDITIONS I (OA) V-4 Covars common orthopedic diseases with review of the musculoskeleral system. Stokes fractures in evlationship to easing, fraction and relimiting. Special operative proveduces are reviewed with teneal experience provided. (4/0)

0464 ORTHOPAEDIC CONDITIONS II (04) V-4 Includes congenital delocations, developmental disexts, infections of bettes and jointy, consolid deviates, contract painful afflictions in aducts, crattes, emparation and afflict special operative procedures. (40)



027.3 OPERATING ROOM TECHNIQUES (OA) V-3 Includes adopting to entropycellic surgery, handling and outor name of instruments and sequencing methods. Supervised currical experience is provided on affiltated besetials as secols and stachastic assessments. (3)²¹

III 79 PLASTER CASTING TECHNIQUES (OA) V-4 Develops with in application and inmoval of masts with emphasis on patient instruction in the proper concelled the applied plaster. Covers signs of corporating situation or companies and pressure areas (201)

0:04	SLPERVISED CUNICAL EXPERIENCE I (OA)	V-4

bodiedos lezrelag experiênce or tha hospital omergency ruom, (0/12)

0692 SUPERVISED CUNICAL EXPERIENCE U (GA) V-6

Continues Supervised Clinical Superience I. Includes experience in the energency show and in the orthopaedic ward

0783 SUPERVISED CUINICAL EXPERIENCE 90 (04)

Continues Supervised Clinics', Experience II, Ersindes experience in the hospital operating room, 10/181

 () 564 SUPERVISED CLINICAL UXPERUSACE IV (DA) V-6 Studies the patient as an in-patient, Applies and maintains all types of traction (0)/80

1383 SUPERVISED CLINICAL EXPERIENCE V AND SEMINAR (OA)

Student is assumed to be carbopadid, suggroups provide practice. If works with the orthopacidar so bound provides $(7^{+}30)$

1081 TRACTION TRADUCES (DA) V-3 Includes principles of assisting to the orthoparshie word god of developing a department of orderbackie equipment and supplies Apple from of the various types of traction, maintenance of traction equipment and back alignment are emphasized. (2/2)

METALS AND MANUFACTURING (Met.)

Vocational Technical

0763 MACHENIST LABORATORY I V-6.7 Studies heat treatment of various merals top other basic press/paginal procedurest instruction in the proper usile and use of metasuling and byoat tools and again looks: development of skills (in the following machines, duel press, engine lather, named table, hop-zonital and vertical milling trachines, guiders, shaper, learer lather, connectedly controlled machines and other loges of production toochice table, (d) (0.22)

0914	MACHINISY LABORATORY II	Voð
Carline	as Machines Teleoratory 1, (09) 5-23)	

0946 MACHINIST LABORATORY III V-S-111 Continues Machines Laboratory II. (6016-25)

0948 MACHEMST LABORATORY IV V.S. Continues: Machined Laboratory III (in the evening program only), (0(16)

2943 MACHINIST RIALATED 1	V-4 S
Offers instruction in inclumnation bluebrail reading,	admapheria@qus
and sufery, 04-850	

0945	MACHINEST RELATED II	V 4-7
Carfao	es Marbinest Related L (4-7/3)	

0947 MACHINIST RELATED III Logunous Machinist Related II. (4-5/0)

V-0

V 12

0949 MACHINIST RBLATED IV V.4 Continues Machinist Related III (in the evening program only), (48)

0480 MACHINE SHOP & WELDING PROCESSES V-5 Develops the skills needed in oxyacetytene welding, linexing, and are welding. Students become familiar with the dull press, prind equipmont, and the opping lattice

HUG3 MANDFACTURING PRIJCESSES I V-2 Lowers terrors metals and materials, mashing and outing tools, lowers terrors, group and inspiration, measuring hand tools, sawing and training latites. (2)41

(i108 MANUFACTIORING PROCESSES IF V-2 Develops skills to time; and output/the lathes, server threads, drifting, collogy grindup and finishes, shaper and planer, and numerical control mactions, Q/4;

9597 MANUFACTURING MATERIALS AND METHODS V-2

Follows Monufacturing Processes, and deals in greater depth with the properties and expansions of various materials such as sleet, aleminium and brass, (2)49

1388 PRODUCTION MACHINERY V 2 Covers classroom study and shap precise on the use or metal forming exactances, and matcherance of welding equipment. (0)14.4 w/sc)

MUSIC

College Parallel

1973 APPLIED MUSIC: INSTRUMENTAL P-L Offers session for beginning intermediate and advanced students. May be repeated for a total of Six Scouts, Periods to be arranged Prefer: Pernission of instructor.

[97] APPLIED MUSIC: INSTRUMENTAL FECHNIQUES

Covers ingrodernis, and tochnomous or errory to develop justimuceatal groups. Recommended if transferring to UNL Prereq: None. (M2)

1329 APPLIED MUSIC (INSTRUMENTAL) KEYBOARD 1

Designed [15] studients matching in elementary education of in music, and be provided beginner on plane. Contents include playing by note, music reading, functional factory, and plane technique. Student music be prepared for playing on a regular basis. Presequi Consent of the propared for playing on a regular basis.

0.2

P 3

P-1

1333	APPLIED MUSIC: (INSTRUMENTAL)	
	KEYBOARD O	

Continues Keyboard I in the study of plane technique. Includes functional theory, analysis of inteleval structure as an aid to phylic, transposition, and creative activities. Prereq: Keyboard I or consent of the instructor, (1/2)

₽-L

1325 APPLIED MUSIC. (INSTRUMENTAL) KEYBOARD III P-J

Continues Keyboard II to the study of piano technique. Preneg-Keyboard II and Fundamentals and Elamony II or consent of inservetor. (1/t)

1332 APPLIED MUSIC: (INSTRUMENTAL) KEYBOARD IV P-1

Studiet figured bass, antrovisation, and accompaniment figures. (May not be repeated for credit.) Preseq: Keyboard II and Fundamentals and Harmony II or consent of anstroator. (1/1)

0727 APPLIED MUSIC: VOCAL U P-1 Includes stage presence, breach conicol, freedom frum tension, vowels tone quality, 7200

0823 APPLIED MUSIC: VOCAL II P 1 Includes resonance, consonance, phonetic spelling, over scale, we de placing, head voice, male voice. (2/0)

0384 APPLIED MUSIC: VOCAL III P-J Includes legato and sostenato statuata, embellishments, Saxibility, interpretations, proportion and unity. (2/0)

2077 APPLIED MUSIC: VOCAL IV P-1 Others provide analization for advanced students in volce. May by repeated for succentifics. Periods to be arguinged. Preseq: Vocal III or permission of instruction (1370)

0696 MUSIC APPRECIATION P-J Includes elements and types of music with some attention to major periods and composers. (3/0)

0405 ADVANCED HARMONY, EAR TRAINING AND SIGHT SINGING I P-3 Contrapted for year sequence. Prereq: Fundamentals and Rarmony

111 and Eco Training and Sight Singing 111 (5/0)

99

0492 ADVANCED HARMONY, EAR TRAINING AND SIGHT SINGING II P-3 Continues Advanced Harmony, but Training and Sight Singing I. Preses: Advanced Narmony, Ear Training and Sight Singing 1. (5/0)

0586 ADVANCED HARMONY, EAR TRAINING AND SIGHT SINGING III P-3

Controlles Advanced Harmony, Ear Transmy and Sight Singing II.

Percept Advanced Barmony, Ear Training and Sight Sidging II, (570).

01019-0AND $$P_1$$ Designed for students with ability and desire to play in a band. May be repeated for a total of an oragins, 10(2)

0076 CHORUS P-i. Chorus mosts three hours weekly. May be repeated far a total of six credits. Period to be arranged. Preneg Permission of instructor. (0/0)

1068 CHORAL TECHNIQUES P-3 Includes ingredients and techniques necessary to develop large vacal groups. Recommended of transferring to UNI. Prezeq: Canducting, (J/0)

1076 CONDUCTING P-3 Develops techniques receisary for conducting. Reconnected if transfering to U.N. Piercq: Foodamentals and Hamony 10, (340)

(HOS EAR TRAINING AND SIGHT SINGING | P-1 Instance dolt development in listening and sight singing (12/0)

0204 EAR TRAINING AND SIGET SINGING [] P-1 Continues For Training and Sight Singing 1. Proceed For Training and Sight Singing 1. (2/0)

0796 EAR TRAINING AND SIGHT SINGING III P-I Continues Ear Training and Sight Singing II. Preseq: Ear Training and Sight Singing II. (2/0)

0235 ENSEMBLE P-1 Offers instruction and performance in small votal groups. May be reposted for a total of six scedits. (0/2)

078) FUNDAMENTALS AND HARMONY 1 P.3 Includes mores, theory and basis, build mentals, Correct East Indianic and Sight Singing U (3/0)

(1873 FUNDAMENTALS AND HARMONY IF P.3 Conjunest Eurodemontals and Hatemony J. Placed: Fundamentals and Harmony J. Corece Eng Training and Sigle Singing II. (177)

0040 FUNDAMENTALS AND HARMONY HI P.3 Continues Fundamentals and Harmony II. Press, Fundamentals and Harmony II. Corso, Far Transing and Sight Singang III. (170)

1349 FUNDAMENTALS OF MUSIC D-2 Designed to give mean indigers the haveground necessary for success in fundamentals and harmony. May also be taken to students vasions to develop musical skills. Content includes a survey of music randing, rhythm, scales, intervaly, and triads. Credits are NOT applicable towards an associate degree (2/0).

Vocational/Technical

0095 ADMINISTRATION OF MEDICATIONS 1 (PN)

The force-field study of drugs through hody systems and possibilit applications which follow (320)

(7)87 ADMINISTRATION OF MEDICATIONS II (PN)

A review of infiltratic and its relation to correct dovage, and the actual administration of medications, with a study of site actual administration of medications, (2)()

0478 CARE OF ADULT PATHENT L(PN) V-6 A consideration of the relationship of nucsing techniques to vocific health problems. Emphasis on developing sensitivity to physical and emotional needs. (6,0)

0587 CARE OF THE ADULT PATIENT II (PN) V-6 More complex vielts are studied including specific skills such as isolation technique and care of those with mental illness. First aid and duaster nursing are covered. (6/0)

1302 CHANGING PATTERNS OF HEALTH CARE AND NURSING (RN)

Focus on changing patterns of the locality care deavery system and the complex liteau relationships that affect the quality of health service, (2/2)

(II:18 - CUNIC | MED-SURG (PN) V | Vie statisting and an mag of oursing skills with medical-surgical particule, (0/3)

1405 ULINIC II MED-SURG (PN) V40 Continuation of learning expressions with motical-sorgical patients (05)

1410 CLENIC III GERT UROL ORTHO (PN) V-8 Studies system club in the following specially prove formation, for any, and Orthopastics (0/3)

1414 CLINIC IV PEDS-OB (PN) V-9 Studies patient care in the following specialty areas: Perhapsis and Obstetney (0/4)

6872 FUNDAMENTALS (97 PRACTICAL NURSING I

Stars on basic nursing skills essential to good patient care. In addition, the physical, sphittical and emotions' needs of the patient are covered. (3/2)

1407 FUNDAMEN FALS OF PRACTICAL NURSING II

Bade nursing delts to give direct patient cars. Also stressed are the physical, spinicul and emotional needs of the patient, (3/2)

1346 METROLOGY (RN)

V A

V.O

 V_{2}

V-2

 $\label{eq:programmed_assumption} Programmed_assumption of apothecises, metric and horisefficial systems of metric and horisefficial systems of metric programmed, <math display="inline">11/0$

0535 NORMAL NUTRITION AND DIET THERAPY (PN) V 3

Studies nerroal pulitities and its relationship to optimum leady tanunanthrough the entrie late cycle. Also covers field task and tallactes, regional and collural food gatterns, respirate product health, and the modification of normal obtainion milit therapy.

1322 NURSING LIRN) V-8.6 Offers orientation, to marking protince, outsing as an antappitien and to the brailin care agendes. Focus on brand generalizations relative to health, stress (normal) and outsing problems in the care of the ill. (S(S)

(326 NURSING IL (RN) V-9

Emphasizes development of fundamental norsing knowledge and techniques for the care of all patients. Specifics related in distrated physiological tody processes we, asygon, fluid and electrolytes. (NL2)

1330 NURSING III. (RN) V.9 Focuses an a utalied concept of health and disease and the interrelatedness of pussing problems. Specifics related to stress and adaptation regulatory, sensory and metor. (5/12)

2034 NURSING IV. (RN) V-10,3 Uncodes on mental lights, methods sticlegy, treatment and prevention or mental filters. Psychologic problems appreached behaviocally. Needs, for ings and helpydor of the student consulered as well as those of the patient (S-26)

1338 NURSING V. (RN) V-11 Studies, physical and mental disess correspondent values against educed system and evidences in presidence, specific foretwise presented and clobel beat to and deviate twin iterasy (S/18).

1342 NURSING VI, (RN) V-11 Studies physical and metal/ dimost with focus on the development and anifection of intraing, concepts related to illness. Emphasis placed on the student's obdity for concentrationary planeing and competent typlication of maxing knowledge 15/18)

1310 NURSING VIL (RN) V-12 Continues Nursing RN 202 with added compasis on patient-formed traching, (5/21) 1318 NURSING VIII, (RN) V-13 barrises on the order of the registered nurse in planning for providy of targing operational directory of community resources. Planned to as 0, the student with the transition front student role to mise pre-bluener over (7/21)

1914 NURSING IX (SEMINAR) V-2 becauses an regal and personal responsibilities in the practice of binoung. (2/2)

0667 NURSING CARE OF CHILDREN L(PN) V-3 Develops on understanding of momal child growth and development and the ided's relation to fits family, second institutions and the continuuity. The epity deality of the ideal and an electrification of his variable behavior in the of ill new economical, (200)

(176) NURSING CARE OF CELL DREA If (PN) V-1 Epiphastes scalls model to care for the child which all or tox need for specify mapping tococces. The child with a physical hundjupp and the scale who is togetfully rotated for above public of (1).

CO15 NCRSING CARE OF MOTHERS AND INFANTS LIPN) V-3

Superses an undervisibility of glysteal and theratal changes undiriging autions pregnancy and shouly literasches. The politiss of second reproduction, deviations occurring during pregnancy, and an apprenditions of fears and falliceles related to prognancy and the burks process are studied. Ferential source up to mothers and infants and respect for applications of deviations are targets. Respect for completeness and how to garn and infants and the second fears and how to garn and infants and the storage (1970).

0110	NERSING CARF OF MOTUERS AND	
	INFANTS II (PN)	V-1

Concluted with the student's specific choice: experience while in this area $\langle 1/i \rangle$

0223 PERSONAL, VOCATIONAL AND COMMUNITY RELATIONS I V-7

Studies influence of listory and tradition on progress in oursing. The development and understanding of consumarization wills both verbal and non-violat, brightesis is placed on the development of a code of professional class. (2011)

0418 PERSONAL, VOCATIONAL AND COMMUNITY RELATIONS 12 V-.

Inductions a distantiation of John applications and recognitions and legal implications. Professional otherance stressed, (17/8)

.539 FIRST AID, DISASTER, AND COMMUNITY FIEAT FUNDERSING (PN) V-3

Studies troopget/y freatment appropriate to the situation: also, the studie's sticut of commonity livelith agencies and versions available and (from referral procedures, (379)).

Adult

 0866
 CLERICAL PRACTICE
 11-3

 Differs general monder tran to office skills required by most basiness equipment and mechanical procedures.
 10-3

 086.3
 STENOSCRIPT
 H.2

 Provides the source to master shorthand in the doptest population of source to master shorthand in the doptest population of source to master shorthand in the doptest population, at source no master shorthand in the doptest population, address and those who must attend configurities, softettings without the lasticy of a constant?

92n I = 1 MPING I H-3 Designed (or presents who have batting provints expects are of who need a corresting conese. Latershierts key broad, wholeing to briggers, and basic burg hards.

(136.3) TYPING II [143] Centroles Typing 2 stressing, reprovement of typing techniques and special spelications of reaching map;

Vocational Technical

(312) CUTTRICAU PROCEDURES V-4 Designed as a comprehensive advanced clerical course which methodes the followine base units of instruction data processing, affeccommunications systems, deplicating procedures, mail and messengeservices, receptionist procedures, and typing business papers. Smooth be taken cownois end of program, (4/0)

[OS3] OFFR'D PROCEDURES] V-7 Provides simulated suffice as locks and problem-socially attractions which will develop the test student offer them isolated with. Students are present theory is called write of instruction and office positions that will be the problem that the parlament skyletodity approximate an area provided theory to parlament skyletodity approximate to an area provided to the parlament skyletodity approximate and no valuate other develops the other stars are approximate to work and people. Present College Tepping II so the tracted by approxima-(3,5).

1383 OFFICE PROCEDURES II V a Refines to avoid and the interview new concepts that procedures leading to central and the interview new office staplicyment. Proceed Codage Office Procedures 1 or contractory approval (3/2)

(3364 - COLLEGU TYPING IV V.3) Emphasizes simulated affice production ryping. Proof, College Typing III or instruction's approval. (4/6)

100

0819 DEMTAL TYPING

V.2 Convertances on the containing duties of the dental assistant isologing preparation of statements, correspondence and meanscripts, and the loss of the transcription muchine and preparation of many seripts, (500)

0505 LAW OFFICE PROCEDURES. V-A

Designed as a comprehensive any stoed second rol course which includes the following has elements or instruction as they apoly to the legal riefa, contationestion through the use of hereas, legal latence reports, the regionarian and letroraphic services: protects propagation, partytash, insuring , the chancel statesters, and application of distribuand transcribing feel flagiles, reproduction, principalities, and haipy particone Project Legal 3 group and Legal Leronghebagy (300).

0706 5.13GAL D.CTATRIN

Develops and entitied by to take spectrop of shipath prototyl and tetranscribe it in legal deconcent ferm. Protog. College Sharthand Franscription and Lepsl Textu(ablopy, (3/6)

V.3.

 ∇D

W.A

v.a

¥.7

14.91 LEGAL MACHINE TRANSURPTION V-3

Develops stocker() ability to transmike legal material in document form. from nucleare do tatism. Prereq: Legal Terminology and proficiency in transterbing machines (3/0)

0879 LEGAL TYPING

Concentrates on the typing of forms, letters, and other business papers which are contained to the law office. Beenst: College Thyring III (390).

0322 LEGAL TERMINOLOGY

Provid, climiting in spetting, detroing, and opplication of record containers. on the legal field, (2)(0).

0713 MEDICAL SECRETARIAL DICTATION ∇A

Concentrates on the construction of shorthanit outlines for specialized medical terminology used in offices, where a knowledge of incitization terminology is essential Protect College Shorthand III, and Medical Secretaria Terr indogs and Budy Structure 1, (470)

0810 MEDICAL OFFICE PRACTICE 1

Develops a basic understanding of what a physicianly office is like and how it functions. Housekeeping in the medical office, fendantation cientacts with patients, mode if 1 stor es, tolophone provedures, spponument whedding, supply pandlase, storage and memory of supplies are presented. (373)

0476 MEDICAL OFFICE PRACINERIE

Contrates Medical Office Printics, A consideration of case histories, health and mardent insurance programs, gavery meet prodjest only programs, the obysician's public duries and habilities, professional Fability, Medical Practices Acts, and the legal retarranship of physicing and patients (262).

1415 MEDICAL SECRETARIAL MACHINE TRANSCRIPTION

V-4

V.I

together develops transcription skills with an phasis on medical termineview Bives subclike of the swallware medical letters and forming case. histories, consultation reports, operative records, discharge saminates, X-pays and CKG reports. Presso: Medical Secretarial Terminology and Bady Structure II and professory in transmisting reactions, (2/6)

0093 MEDICAL SECRE FARIAL OFFICE PROCEDURES V.a

Designed as a comparisonity education sources in only on which to budge the following basic units of castronison as they stypic to the medical faid: communication drivesh the use of letters, reperts, the talephone and telegrabic services; accords regarding payoof, petty cash, insurance, and Grancial statements, and application of dictation and transordine. techniques, reproduction productions and filing methods. Preton Coffinge Typing Transportant fors approval, (490).

0207 MACHINE SHORTHAND I

Presents the basic Proof, concepts of writing pharetically on the Stenograph shortmand proclude: (500).

1589 MACIGNE SHORTHAND D ٧**4**

Traches the range drag theory of using the Standardy madigate to record distances. A larger withing contributing is developed. Present Letting: Myalime Streethand Live instructor's approval, ravely

0570 MACHINE SHORTHAND III

hampleasizes furthering the student's alterty to record dictation at an manazorg rate. Preformany emphasis en transcription is began. Preferen-College Monthe a Shorthand II or instructor's approval (1999)

0019 MACHINE SHORTHAND IV

VA. Continues the emploisiv on speed huilding and on the finished. transmipt Prove, College Mschine Shorthring III or justicetory, uppeoval (\$(0))

0986 MUDICAL SECRETARIAL TYPING vи Concentrates on the typing of forms, letters, and effer business papers. which are composite to the method officer (400)



0621 MEDICAL TYPING

Gales the student produce in typing medical letters and torms, case histories, consultation reports, operative (coords, discharge sometheries, X-ray and EKG reports, and the preparing of stationars and articles to medical journals. Prerior: College Typing JBL (300)

1395 OPFICE CALCULATING PROCEDURES V.4. Provides for intregration and relevance horwcer: basic muthematics and office machines. Concepts are developed; and these mathematical understandings are applied to the operation of odding and rak-dating machines. (5/0)

0216 OFFICE EDUCATION LABORATORY V.3. Offers indexadual help in any office effaction statgest, and educ both remedial and enrichment instruction. Time statgest by program.

1.391 TYPING SKILL DEVE) OPMENT V-2 Continues further refinement of high typing skills with emphasis on proper techniques, keyhiand moving, production of base business carrespondence, and speed and ordinary development. The course is premarily for dental and profleg swistout students who need to reach a higher, general skill profleg only before advancing to their specialized ryping units. (3/0)

College Parellel

0371 COT LEGE SHORPHAND 1 For stokents with no knowledge of shorthand, (5/0)	ŗ₄
0.362 COTLEGE SHORTHAND Q Develops should shill be beginning dictation and transcription, rwy. Shorthand Fee instances's approval. (\$/0)	P-4 Pre
0546 COLUEGE SHORTHAND III Forther develops shorthand skills of the opticals on distation. Pre Sherthand III or instruction's operiod. (570)	P4 wq
6214 COLLEGE SHORTHAND TRANSCRIPTION	P4

Contraines situation service training training the training student's Contraines situation of process way complexis an increasing student's ebudy to training the difficult material train shorthand outes and to patish related transmittering while. Prenegt College Shorthand III or instruction's approval, 14/0.

()172 COLLEGE SHORTHAND V P.4 Continues should and sequence with encyclosis on increasing steed and accuracy. Presect: Enclose Shorthand Cranscription or instructor's approval. (5/0)

0077 COLLEGE TYPING 1 P-j (02 For students with no hyperg skills (15/0)

- 0173 COLUCER TYPING D

\$1.0

Further develops typing skills and knowledge, Prenet, College Typing 1 or instructor's approval, (5/4)

G2(52 COLLECE TYPING III P-3 Develops advanced typing skills and knowledge, especially designed for secretorial or business education majors. Preceq: College Typing II ar tostructor's opproval. (5/0)

0724 OFFICE MACHINES P-2 Includes operation and application of ordering and calculating insolutions (70) 0146 RECORDS MANAGEMENT P-3

(146 RECORDS MANAGEMEN? P-3 Studies (Jung systems and procedures for records storage and paragal (240)

0435 SECREDARIAL PROCEDURES P4 Integrates skills and knowledge nerossory to perform korretarial duties. Includes manhine transmitten and reperforming manhanes. Prerequicaling Typing II of mals activals opproval, (5/0)

PERSONAL DEVELOPMENT (Pers. D.)

Vocational-Technical

OS02 PERSONAL DEVISIOPMENT 1 V 1-2 Privides the study and application of techniques (at improving personal application, mental artificite, pease, and personality, such as framerary skin care, wardrobe selection, weight technics, and personality development (1/0 - 2/0)

0703 PERSONAL DEVELOPMENT II V-2 Studies the development of personality, page, and personal ack. Concentrates upon basic modeling techniques and an intensive study of clothing selection geared in the reads of the individual student. Prezeg: Personal Development 1, (20)

0960 PERSONAL DEVELOPMENT HI V-2 Offers supervised study, countering, and configuration, techniques of effective studying (120)

PHILOSOPHY/RELIGION (Phil.)

College Parallel

1526 INTRODUCTION TO PHILOSOPHY P-4 Explores foundations of philosophical trought in the context of contemporary sectors (1466)

P-7

(5) I. INTRODUCTION TO RELIGION.

Includes a consideration or each of the great religions in the context of contemporary sectory. Variations in the structure, erganization, and functions of religion greasystematically examined, 1400-

PHYSICS (Phys.)

Vocational-Technical

0930 APPLIED MHYSICS I

Studies praverties of matter and mechanics, including the following topics: future, metion, relationships, work energy and power, vectors and graphic solutions, simple modifices, relation, forque, power and battomission, (4/1)

(19) (1 APPLIED PHYSICS II V-3 Studies neraperature and heat transfer, air conditioning and refrigeration, wave polyton and theory of about energy (3):01

0885 HEAT, LIGHT AND SDUND V-6

Employs taboratories to familiarize the student with the physical generatories of iterat, input, and saving and to unreduce the rejectific iteration, (4/2)

0614 FECHNICAL CHUMISTRY AND PHYSICS 1

Studies the chemical structure and the reactions that type place minimizing gentation and sinfication of dental materials, try holes the laws of physics related to the dental biomatory tabriestions. (5:0)

0711 TECHNICAL CHEMISTRY AND PHYSICS II Contances Technical Chemistry and Physics I. (399)

0803 TECHNICAL PHYSICS III V-2 Studies the principles of physics with relation to prown and bridge computation. (30)

College Parallel

0169 COLLEGE PHYSICS 1

(Open to freshmen in premerical, pre-denial, pharmacy and other students specing to meet the science of physics requirements in professional or likers) aris programs.) Emphasizes the introduction of physical doncepts without the ragor of advanced mathematics. Threequarter sequences first quarter includes review of necessary trigonantetry and algebra, vectors, mechanics, Kuoles's and Newton's laws, waves, sound, and heat, (3/2).

0280 COLLEGE PHYSICS II

Includes electricity and magnetism, light, optics, and optical assems. Freient: College Physics 1, $\Omega(2)$



0360 COLLEGE PHYSICS JU-

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P-4

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P-4

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findentes exectiones, atomic, and nucleus physics (sout an experimental and phenomenological point of view, special selectivity, and costile rays. Three one Sear factures, one 2-nour isbesitory and one 1-hour problem session pict week. (3(2)

04.25 CENERAL PUYSICS 1

Designed primarily fer empireering and science trajout and those resplating a tigorizus physics sequence employing mathematical tools request developed in the concarsent Calculus I course. Three-quarter sequence this quarter includes vectors, mechanics, waves, oscillations, logit and thermodynamics, and statistical mechanics. Paceop General Physical and concurrently Calculus II, (3)(2)

OS 14 GENERAL PHYSICS B

Include, electricity and magnetism, electro-magnétic propogation, physical and geometrical optics. Proreq General Physics I and concurrently Calculus II. (J/2)

0610 GENERAL PHYSICS III P-4

Includes quantum monitorical boundations, relativity, atomic own nuclear physics, elementary particles, cospile tays and space physics. Prensy, General Physics II, (3/2)

1374 PHYSICAL SCIENCE (ASTRONOMY)

Provides an journely-output interview of modern astronomy for mansounce majors. Ropeds in hide bistorical development of astronomy, captionnes of astronomy, the quillimode system, planetary mation, rides the enterthe solar system, energy production in stars, the Silky Way, other guilaxies, the and death of kinds, the Universe and Upsmalogy. The weak's three hour lab meets in the evening, (3)(2)

0073 PHYSICAL SCIENCE (PHYSICS)

introductory everycow of modern physics for non-science majors, Topics include atoptic or 4 metalost physics, Galileza and Frasicistan markships, wave-particle mature of light, time, cosmic-rays and space physics (3/1)

103

POLITICAL SCIENCE (Pol. Sci.)

Adult

0.123 AMERICAN GOVERNMENT EI-3 Stadles the government of the United Styles from the Mayflower Compact to the mast recent laws possed by congress. Detailed study of individual segments of our government as determined by student interest

Vocational-Technical

0598 AMERICAN INSTITUTIONS I V-3

Studies the effect of American social, economic and political institutions open the individual is a childer and a weeker. Current local rational and concurre problems say viewed in the light of American political and concurre political, Adapted to the posts and interests of students depending on the program in which they are conclud. Open to students be vocational or technical programs only (1970)

0597 AMERICAN INSTITUTIONS IF V 3. Continues American Institutions I. Open only to students in vocationsk-technical programs, (3/0)

1103 STATE AND LOCAL GOVERNMENT V-2 whatyzes principles, argumentation, procedure and functions of government on the community state and nation. Special adaption is made of legislation to the local business and its successful operation. (170)

College Parallel

Ansociate Degree, (410)

0063 AMERICAN SOCIETY: COMMUNITY POLITICS P-4 Introduces the expandation, structure and function of dominanity palities and decondormaking. An assessment of voring, interest groups and patitical party roles in the political pagess. Applies only to

0353 AMERICAN FEDERAL GOVERNMENT P-1 Offers analysis of principles, organization, procedure, and functions of the national government of the United States, (\$90)

0445 STATE AND LOCAL GOVERNMENT P-4 Others and sis of prizables, organization, preseduce and functions of genement of the United States -- state and local (490)

0539 WORLD POLITICS P.4 Offers an analysis of major world regions and expect international problems, (4/0) 1501 INDEPENDENT STUDY IN THE SOCIAL SCIENCES

P-0, 1, 2, 3

V3

٧N

Provides readings, papers and/or basic predictly projects under the individual guidance of a calib member. Consert of instruction and department cluarman is required before registering

POLLUTION/ENVIRONMENT (Poll)

Vocational Technical

3.374 COMMUNITY IMPROVEMENT

Identifies programs for the ban Renewal, neighborhood, accordent to patterns, and the interrelation physics simpling group outents bervices (4) (1).

0088 DISEASES OF MAN V-4

Inversible infections, intoxications and trainintanic injunies sufficient lisintra down vetworty and transmissive of excitoroade) their vetworks and programs, and the conditions and Contracturestrates which possibling their trapagrowing or occurrence and how they are contralled. (4/11

0244 HOUSING INSPECTION

Towers the Justith Signith capse of Hoystey; the leathnes of Sasak up which containsies to 10 methoding lighting, heating wonthlation, simplified but; idies, whe and sampley matchening and unividently space use area to asong content to the control of these leathness and the inspectional methods coupleded in the production and enforcement of the standards (Ap(0))

1898 INTRODUCTION TO PUBLIC HEARTH V-3 Offers an overview of the argumized contraining effort to ove come disease and upgrade the level of hearth of the public, (4/15

1382 INSTITUTIONAL SANITATION V-3 Studies environment durants involved in the Health and Safety considerations in schools, norsing honors, hospitals and correctional involutions, (4/0)

0028 FOOD SANITATION V-3 Includes the relationship of four and the preparation and functing of food to the fearth of the public, and the santary requirements of food functing existing means (571)

0.376 MILK SANITA RON V.3. Includes the quality milk program, the sociation involved in the production and the processing of thick, and proper sampling to havgue (3/1).

1386 OCCUPATIONAL MEAUTH AND INDUSTRIAL SAFETY V-3 Southes community and optigational samilation problems including industrial and home hyge as and vafety (301)

04

1390 RECREATIONAL SANITATION

V 2 -

V A

Covers the builds and selecty aspects of parks, trader parks and swimming peeds (achteding (2001)) and testing (40)).

at40 REFUSE SANITATION

(kevery the oftenseter of solid waste produced by households and compatingnes, mets backfor and maisopre signaficance; and proper methods of dispesal modeling use of modelities indirections, and ganders. The because at hog feeding and the signal production and young problems associated with refuse burning and durings with also be covered (3/1).

[378 PROJECTS LAB V4) Offices supervised selection projects involving (at work and field experience, (Hours arranged.)

0791 SEWAGE SANITATION V-5

Includes localth significance of sewage and the importance of propersewage disposal to public braffle basic principles of sewage frequent and disposal, principles of Sowage Sanitation I as applied to specific private sewage (reatmost process) molitiding privice sentre teaks, son absolution by scenes, implicit teaks and exclusion, pupels (571).

0267 SUPERVISED FIELD STUDIES (SUMMER SESSION) V-10

Offers super-used on-the-job training, and inspections of dwellings, (i.e.) handling procedures, water testing, abservations of jesuity of sewage treatment, inspection of proing, checking refute dispatch and autorates (0/30)

0379 SEMINAR-ENVIRONMENTAL HEALTH V-2 Studies problems yrs contered dating field carring experience, (200

0108 VECTORS V-3 beliefs the steely of those parasites which produce Assass, with particular reference to the human basi, and these assays and authomode that are introduced at the fractor resion of diverse, (340)

 $Q346 = WATER SANTATION = \sqrt{3}$ Provides the student with the understanding of the purple health significance of a safe and adequate writer supply. It will therefore the study of public water supply, preper well design, pump operation, water purfication processes, mater bacterialogy. Premital testing, individual water systems, and sampling termingles, (p(1))

PSYCHOLOGY/EDUCATION (Psych.)

Adult

0494 PSYCHOLOGY

Introduces the defining and solving of everyday problems. Levels, ok examples of situations common to all vectorions. On ap discussion relating life to theory of problem solving.

Vocational-Technical

1412 HUMAN RELATIONS & SHOP SUPERVISION V-1 Organizational principles and galieros of shop lezdersing. (2-2)

0145 INTERPURSONAL RULATIONSHIPS V-2 Studies people to precise responses, emphasizing the less obvious, such as what people to about themselves by interaction with their environment (300).

0259 ORIENTATION TO THE PROFESSION OF ARCHITECTURAL DRAFTING V-1

Franky may studion to the Architec rapid Drufting, with spinos and processings. Presental hypothesists and flations relations are also spreaged (1700).

0.002 **P**SYCHOLOGY OF HUMAN RELATIONS 1 V 24 Covint (day) physical principles of feature tobastic Doughed to help students understand themselves and those persons with whom they will wrote. The course is adapted to the needs and interests of outdants depending on the program in which they are enrolled and is epen to students in construction to forgants only, (3-570).

(399) PSYCHOLOGY OF HUMAN RELATIONS 15 V-7-4 Continues Psychology of Human Relations 1. Open to study at yrocatical technical programs hadinates a study of self-concepts and individual and propheticitianships and adjustment latters. Consideration of the special costs of persons at various agos have early childlored strongly adoltband. (30)

0483 PSYCHOLOGY OF HUMAN RELATIONS III V.2 Continues Psychology of Human Relations II. Open to students in constituationship of management Psychology Under to with a programmer endor

vocational-technics) programs. Provides stodents with appartuncties to distant human-technics problems encountered while doing clinect south (7/1)

1517 SUPERVISORY PSYCHOLOGY V-4

Designed to provide Students with the exportance, to citaly and apply the skills of supervision and management in business. Projects will be developed according to the supervision is speculized business. Maj agenieur techniques will be pressed.

College Parallel

£1 3

1345 PSYCHOLOGY OF ADJUSTMENT P-4 Studies read principles of psychology to relation to the development, assessment, and modification of personality adjustment. Recommended for students withing one course only in psychology. Not open to students who have least in General Psychology (14/8).

0389 GENERAL PSYCHOLOGY P-4

Provides a potential introduction of the study of intrinsic behavior, (490) ~ -105

. 03

0024 PSYCHOLOGY OF CHILD DEVELOPMENT P-4 Studies psychological growth and development from birth through high school age: Prereq: General Psychology, (4/0)

EDUCATIONAL PSYCHOLOGY AND 1741 MEASCREMENT P-4

Consulers and evaluates the following means: factors of physical and mental development; child and addressent characteristics as they may effect the general learning sizuation; pronlems of classicolom management construction, use, interpretation and maluation of alandardized and teacher-coastructed tests. Prenty: General Psychology & and suphometer standing or conserved instructor. (976)

P4 0598 AMERICAN PUBLIC EDUCATION

Provides an everyow of the field of education with special employees on sectological, political and economic factors, (4/0)

1337 PRACINCUM FOR TEACHER ASSOCIATES

Offices observation of terminitiary or we ond style close offices, glass supervised classicions experience in which shuferers serve as teacher aides, Weekly discontray of topical toterest as related to classifican and experience. Sourcers spead three hours each week in a local school. classesperational one front of class discussion. Discussions will retited on analyzing student's experiences and defining periodples of sepervision. and instruction appropriate for the teacher associate. Preteo: Completion of sixty quarter boars, including American Public Education and convention instanciation (2/O)

INDEPENDENT STUDY IN THE 1502 SOCIAL SCIENCES P-0-1,2,3

Provides readings, papers, analysi basic research projects under the individual goldance of a staff member. Convent of instructor and department / initian is required before registering (Malors arranged.)

SAFETY (Saf.)

Vocational Technical

V-0.5-1 6987 FIRST AID Includes basic principles of Circl and unit emergency care, (1/0)

College Parallel

P. 2 0552 FIRST AID (Open to anyone, but purficularly designed for policement. firences, ambulance dowers, supervisors, and others,) Limphaszes resolutiony interfedence, licart attacks, bead and back injuries, fractores, hentor chage, wheek, subregency childbarth and emparonalcy disturbed patience. (Part of the Law Enforcement Cartections Program) (2/9).

20e

SOCIQLOGY (Sec.)

Adult

0068 SOCIOLOGY H-3 Studies must and his relationship to his social environment. Designed to give the individual an understanding of his roly in all social situations including the family.

Vocational-Technical

0508 INDUSTRIAL ORGANIZATIONS V.3 (Open to students in Mechanical Engineering Technology only). ins/infex labor and management in an industrial society, codective bagaining, dynamics of the labor market, and tahar management selations (J/d)

0575 FAMILY AND LIFE SPAN ν.? A study of the affect of various cultural and social developments on the infielded, family, and proves in the community. Includes negated and psychological devolupment and needs from infancy through the senior 5197et (M9)

1292 RURAL SOCIOLOGY V-2 Exploses the problems which have emerged in complex paral American society, including a study of the various form and Age-bushness organizations, (2/0)

College Parailel

AMERICAN SOCIETY, COMMUNITY 0815 ORGANIZATION P.-/

tomoluges the study of American society, ity social and group aligan zation. Cose matters in the nature and scructure of the contemporyry community. Applied only to the Assocrate Degree, (4/0)

0963 AMERICAN SOCIETY: COMMUNITY PROBLEMS.

introduces the problems of communities in transition and class. The definition, nature and range of social problems and their cholleage to the centemporary community. Applies anly to the Aspaciaro Degise (4/0)

0183 AMERICAN SOCIETY: MINORITY GROUP RELATIONS

Focuses on vace and ethnic relations on the U.S. and approaches zice and ethnic relations as another form of diversity in American vectory Developmental perspective is undertaken to avertain the significance of contomporacy race and ethnic relations. Applied only to the Associate Dogree (4/0)

P-4

P-1

6165 INTRODUCTION TO SOCIOLOGY

Examines the range of human behavior Danwing from the fields of anthropology, social psychology, and sociology, a sprey of contempolary behavior is made, regetter with an examination of the theoremical assumptions generating the study of human helpsilon. The major florings of sociology with he presented, and iss implicit on contemporary throught with he examined. (4.0)

0355 MARRIAGE AND THE FAMILY

Studies the pincess of the matital afe cycle: Courtship, during, engagement, matriagi, the child bearing years, the child rearing years, and interfage during the middle years are examined in the light of current and past research, with shess on the consequences of pre-marital matrial and child-bearing decision making. The implication of marital dissolution is also explored, (4/0)

0254 SOCIAL PROBLEMS

Examples various objective vacial conditions which have come (i) by defined as vacial problems, using the structure-function approach to examine the consequences of social structure in relation to the production of social problems. Facily, interpreted theoretic/By, form the functions of the examination of social problems (4/(9))

1528 CRIMINOLOGY

Surveys the nature, causes, and extent of crime and dolinquercy, major consideration is given to apprehension, control, and treatment. Preject Panaples of Sociatogy, (4/0)

ANTHROPOLOGY

Considers group life to various collutes involves anthropological insights relative to fromon behavior to a comparytive perspective includes selected aspects of both physical and cultural asthropology (4/0)

1501 INDEPENDENT STUDY IN THE

SOCIAL SCIENCES (ANTHROPOLOGY) P-0,1,2,3 Provides readings, papers and/or basic sessarch projects under the individual guidance of a staff member. Consent of instructor and Accentional chainman is required before registering. (Hours arranged.)

(50) INDEPENDENT STUDY IN THE SOCIAL SCIENCES (SOCIOLOGY) P-0,1,2,3 (See course description above)

SPEECH (Sp.)

Vocational-Technical

 $0358-SPEBCH $V{-}3$$. Studies the fundamentals of speaking, emphasizing the development of speaking skills $(3{\rm e}0)$

-9268 ORAT COMMUNICATIONS

Studies for the developmental of speaking, the techniques and theory of permissive speaking. The development of skills is continued through frequent opportunities to spely to building discussed. (3/0)

College Parallel

۲*4*

P-4

P-4

 p_A

0358 SPERCICI	P-3
Studies fur fundamentals of speaking, couplesizing the George	loption" of
speaking skills, (3/0)	

045) SPEECIFII P.3

Examines the techniques and theory of personality speaking. The development of skills is continued through fact, call opportunities to apply techniques discussed. (3.3)

SCIENCE (Sci.)

College Parallel

1358 INTEGRATED SCHENCE I P-4 Designed for students in health eccupations covers base principles in themsety. Emphasis is placed on an introduction to organic chamistry and brochemistry. (Permission of instructor required for students not in a health accupations program.) (3/2)

(36) INTEGRATED SCIENCE II P-4

Prophasizes the application, of some basic principles of physics as they sppiy to method procedures such as vectors and pulleys especially as they relate to traction, force and motion, and simple machines. In addition the course introduces the field of microbiology, covering with topics as immore microbiolistic gene theory of disease. Alterprive manifestations, checketbergy and epidemology. Preset, Dategoried Science 1 13(2).

THERAPY (Thpy.)

Vocational Technical

0400 CI INICAL EXPERIENCE OTA 1	V-9
Offers learning years in an Occupation of Therapy chicker and	dinsizhag
the psychosocial aspects of the tape, 40:403	

0487 CLUNICAL EXPERIENCE OF A II V-5 Offers learning setworks in an Occupational Therapy Cluric Amplication the physical disability aspects of therapy (2009)

[22] CLUNICAL EXPERIENCE OF A III V-5 Offers graving activities and Occupational Engraps of the entropy and sector 107 aspects of therapy to specially users (i.e. pertoduces, mentally relateded, nursing home, etc.) (9/40)

0589 FUNCTION AND DYSPUNCTION (OCCUPATIONAL THERAPY THEORY) V-5

Provides basic understanding of processes by which function becomes dysfunction. Emphosis placed on conditions relevant to the occupation all the apply: (M[1])

6910 MANAGEMENT OF PHYSICAL DISABILITY CUNICAL CONDITIONS

Management of the physical disability clinical conditions is seen in the comparisonal therapy ofinity, H713

U821 MANAGEMENT OF PSYCHO-SOCIAL CUNICAL CUNDITIONS V-4

Similar mangethen) of p_3 divisorial clinical vorditions relative to the ecology (kind therapy clipte, (4/1)

0344 MEDIA AND SKILLS 1 V-34 Introduces basic skills in Arts and Crafts eropeasizing the interaction betweek a person and an activity such as seconders, sewing, and wood

1437 MEDIA AND SKILLS IF V-3-4

Introduces monor scafes and emphasized skills in the major crafts, weaving and feather relating activity to the treatment 47/6-8;

[182] INTRODUCTION TO PHYSICAU THERAPY, ORTHORICS AND PROSTREDUCS (DA)

workeng, (2/6/8)

108

ORTHORICS AND PROSTREDUSS (DA) V-4 Introduces simple some som passive exclusives, noportanier of gred stightment and body resolution, practical experiences in crutch training: and uses and cars or braces and pre-sthetics, Supervised clinical experience in the provised theory of department is provided. (272)

UC31 ORIENTATION TO OCCUPATIONAL THERAPY V-2

Presents basic disentation to and understending ϕ' (comparison) (herap) and the orientation of the assistant to first role, (130)

0274 PRINCIPLES AND PRACTICES OF RUHABILITATION V-2

Presents basic principles of reliabilitation as a process on the reastment of physical and psychostroial disabilitation (371).

assa PROSTUETICS AND PROSTHETIC MATERIALS

Develops an understanding of prosthetic devices and materials provided for and used while patients, including adaptive devices, (2/4)

1047 - PROJECT LAB = OTA V 7.3Special projects shown by the student related to the major area as approved by his department advisor. (9/1-2) 1082 SEMINAR OTA

Holps the student from all interpretation of his practical experiences shall then occaring. To get feedback from the students as the effectiveness of his clinical experience. (0.6)

WELDING (Weldg.)

Adult

V-4

v.>

O347 MACHINE SHOP AND WELDING H-3. Provides instruction in the operation of shupers, grinders. Eithes and many other types of machinery, its well as theory and practice in arc and gas welfling.

Vocational-Technical

1354 BASIC ARC WELDING V-5 toductes an introduction to act position are melding, including flame curring, 6 weeks. (0/24)

1347 RELATED INSTRUCTION: BASIC ARC V-3 Others classroom studies of weiding and curring safety, electrode selections and blueprint seating for weidings in weeks. (Taken with Basic Art Weiding) (6/8)

1351 HEAVY INDUSTRIAL ARC WELDING V-5 Develops the student's welding skills to a job entry level for endustry, using the powered iron speed rads and the low hydrogen electrodes. A requirement for passing this course is the successful completion of A.W.S. Guided flemil Test. (6 weeks j. (0/24)

1356 RELATED INSTRUCTION

IEAVY INDUSTRIAL ARC V.3 Studies metal identification, are welding muchanes, welding oxy averylene welding process. (6 weeks) (6/0)

1412 HUMAN RELATIONS & SHOP SUPERVISION V-1 Inclusive organizational principles and patterns of shep leadership (200)

1276 SUDUTT MELIAL ARC WELDING V-2 Studies all position weld techniques used on bart page cietal (1 week) (0777)

1.772 SEMI ADTOMATIC WELDING V-3 Studies thr set up and operation of the semi-antomatic welding process, using hists hard wave and DOA some wire, (2 weeks) (0/27)

13601 OXY-ACETYTENE WELDING V-4 Covers most comption explored welding products used in main tennove welding as well as production (14 weeks) (1/27)



) 368 HELLARC WELDING V 4 Covers all position welding techniques on ferrous and non-lectors interials using the belong wolding process. (4 weeks) (0/27)

§ 380 SPECTAL ARC WELDING TECHNIQUES V-1 Studies welding instituels used on cast iron, stairloss deel and bard surfacing (1 week) (0(27))

1384 RELATED INSTRUCTION: ADVANCED WEILDING PROCESSES

Orders shop math, layout methods, and advanced weiting processes for the combination weither, (3)00

1392 WELDING INSPECTION

Studies show and lab welding inspection turburques giving punctice in the selection, preparation and interpretation of both destructive and nur-destructive welding tests (4 weeks) (0/14).

1596 STUDENT PROJECT

Preprintition of an original project by the student in the strastical calification, is specified of webbing processes (0)(14+4) which

1400 WELDING TECHNOLOGY

Studies welding processes and power society including welding metallarge, specific of contently, design of weldings is, only of welding rule production functions (\$20).

adult and continuing education

CORRESPONDENCE COURSES (High School Completion)

Correspondence courses have been developed to provide educational opportunities for those shable to participate in a regularly prescribed program or who need additional work.

Algebra I Algebra II American Government I American Government II American Government III American Literature I Ansetican Literature II Biological Science I Biological Science II Consumer Mathematics English Graenner J

V-3

¥-2

V-2

V.4

English Grammar II G.E.D. Preparation Physical Science Sociology I Sociology I U.S. History I U.S. History I U.S. History II World History II World History II World History II

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NON-CREDIT VOCATIONAL AND ADULT CONTINUING EDUCATION COURSES

Kirkwood Community College offers ion-credit courses for individual, personal development or for career preparation or upgrading. The following endoses are among those usually offered at least once during the year, more frequently when interest warrants. Where there is sufficient demand, additional costrass can be arranged to meet the needs and interests of individual areas and groups Civic, business, sudustrial instructural leaders are often active to adult education programs.

ACCOUNTING:

Bookkeeping I Bookkeeping II Bookkeeping III Businoss Machinos

ADMINISTRATION AND

MANAGE MENT: fowa Local Gow roment Tooking Program fowenments Stock Investments Standards for Stock Selection Supervisory Management Training Traffic Management and Transportation

AGRICULTURE:

Eawn and Turf Farm Tractor Maintenance Basic Hydraphics Parm Bioterprise Analysis ART: Hasic Act Photography Creative Jeweiry Tole Pacering Life Drawing Fizzwer Arcanging Oil Pacetog Ceramics

COMMUNICATION-Adult Basic Education. Communication English Refresher Creative Writing Speed Reading Speed Reading for Husiness Speed Reading for Husiness Speed Reading for Husiness

CONSTRUCTION. Wordworking

DATA PROCESSING: Introduction to Data Processing 360-Model 20
Introduction to Computers and Programming
IBM S/360 Disk Operating System Concepts and Coding
Enroduction in IBM S/360 COROL Programming
Advanced System/360 COBOL Programming
Computer Lagie I Introductory Keypunches

DENTAL

Depral Assistant Continuation Program

DRIVER EDUCATION: Drive: Education Defensive Driving

ELECTRICITY/ELECTRONICS : Electronics I

Electrodics F Electrodics II Switcharg Circuits Basic Electronics Computer Lugic Transistor I Transistor II Transistor II

FARRICATION. General Metal Shop

FOREIGN LANGUAGES: French I French II Spanish I Spanish II Beginning German I Beginning German II Beginning German II Beginning German II Beginning German II Beginning German II



GRAPHICS. Advanced Blueprint Reading for Building Trades Beginning Blueprint Reading for Machine Trades Mechanical Drafting Production Pattern Drafting HISTORY: Adult Basic Education: History The Life and History of the American Neuro HOME ECONUMICS. Homeroaking Cake Deperating Party Ecods International Cookery The Att of Homemade Beers and Wines. Knutting Advanced Knittine Webd Refnushing Forniture Antiquing and Ro-upholstaring Furniture Restoration Management in Homemakung Prozencal Consumer Dinotice Basic Consumer Finance BaNing. Creative Cooking. Beginning Sewing Sewing and Knitting Intermediate Sewing. Advanced Sewing Alterations Tailoring Slipcover and Drapery Making Interior Deposition Advanced Interior Design-Lingerie und Kieltwoar Upholstering Basic Industrial Blockekeeping Techniques

LAW/LAW ENFORCEMENT/CORRECT TIONS: Low for the Layman LITERATURE: Appendant Authors Series - Heimineway English Diterature MARKETING Vedmiques of Retail Supervising. Principles of Salesmanship Safesmaashap Advertising Display for Small Retail-SI K An Introduction to Advertising and its Place in Commisco and Commeniestion. Retail Display MATHEMATICS: Adult Basic Education: Mathematics Modern Math for Parents **Bosic Mathematics** Refresher Mathematics - Algebra Contemporary Algebra Plane Geometry Slide Role Trigonometry Introductory Calculus. Mathematics for Building Trades Programmed Math. € zieduk Litri, Techniqians Industrial Mathematics MECHANJON. General Shop Auto Mechanics for Women Auto Mechanics for Mer-Internal Combustion Engines. Automotive Mechanics Voksvogen Maintenance/Repair Regimning Refrigeration fromble Shooting/Refrigatation and Air Conditioning Commercial Refrigeration

MUSIC: Charus Foik Guitar Intermediate Piano Intermediate Piano

 OPFICE EDUCATION-Machine Shorthand
 Inproving Your Business Cogmon/cation
 Creative Selling
 Techniques of Office Supervision 1
 Techniques of Office Supervision 14
 Shorthand 1
 Shorthand 11
 Shorthand 11
 Bookkeeping 1
 Boattoss Machines

PERSONAL DEVELOPMENT: Chann

PULLOSOPHY AND RELIGION: Philosophy and Philosophets Religions of the World

PHYSICAL EDUCATION:
Harsemanship
Mon's Recention
Indoor Sports for Mon
Shimpastics for Women
Physical Patness for Men
Swimphing for Women
Beginning for Women
Beginning Swimphing
Latermediate Swimphing
Beforestional Pathily Swimphing
Base Scoba Diving
Golf Instruction
Judo
Square Dancing
Ballisom Dancing

POLITICAL SCIENCE Current Events Iowa Local Government American Government State and Local Government

PSYCHOLOGY Psychology Adolescent Psychology Sales Psychology Effective Sugervisory Practices

RECREATION:

Beginning Bridge Intermediate Bridge Topritament Bridge Tropical Fish and Aquariums Rockhounds Awarion Ground School Travelogies and Book Reviews Geneology Basic Handwriting Analysis

SAFETY: Standard First Aid

SOCIOLOGY

Adult Base Education: Sociology Patterns for Living Formly Life Refirement: Problems and Enjoyment Sociology

SPEECH/DRAMA.

112

Creative Thinking Speecheraft Public Speaking

WFI DINC: Are Welding Oxy Apsyleus Welding Advanced Welding



proposod programs and courses

The following are programs and courses under consideration for othering by Kirkwood Community College.

ARTS AND SCIENCES DIVISION

College Parallel Programs and Courses

Physical Education	
Physic/Education for Men and Weimen 4, 11, 131	P-1 , 1, 1
Physical Education for Mon and Women W, V, VI	P-1, 1, 1
Physical Science (Content Problems)	
Psychology	
Dynamics of Leadership	
Psychology of Growth and Development	

VOCATIONAL TECHNICAL DIVISION

Agriculture Department

Teototesi Agriculture Assatant - Sis quatters - Associate in Applied Science Degree.

Business Department

Ladostrial Markining Seven quarters Associate in Applied Science Degree

Adventising - Sex quarters - Associate in Applied Section Dense.

Traffic and Transportation Management - Six quarters -Associate of Applied Science Degree.

Data Processing Department

Data Processing Supervisor Eight quarters Associate in Applied Science Degree.

Health Occupations Department

Autholatee Attenduat -- Four quarters - Digloma. Operating Room Technician -- Your quarters -- Diploma.

Home Economics Department

Supervisory Institutional Housekeeping -- Three quarters --Diploma.

Trade and Industry Department

Civil Technology - Six quarters - Associate in Applied Science Degree.

Refrigeration and Major Appliance Repair - Four quarters - Diploma.

PROPOSED WORKSHOPS - SEMINARS -INSTITUTES - SHORT COURSES

Health Occupations Department

Dentral Laboratory Technicom - Refresher Briengenoy Health Care Serainar Environmental Health Extension Course Medical Office Assistant Befresher Registered Nurse Befresher

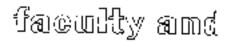
Home Economics Department

Food Service Training/Orsk (Hotel and Restaurant) Entry Food Service Training for School Lunch Personnel Tast Ottorial Dousekeeping Management Vasificational Dousekeeping, Techniques

Trade and Industrial Department

Supervisory Manygement Development Lapping Series Effective Logarithmication Techniques Lecturical Writing Value Supposering Basic Ummer Philosophy Custudial Management





EDWARD L. ADAMS

Dental Laboratory Cepturylagy, CD,T Virgina School of Prosthetics, Edgloma, Cerps, School of Dental Technology.

SHERRY 1, ADAMSON

Fashion, Metchandising, B.A. University of Northern Jowa.

JOHN R. ALDERSON

Adult Education: Supervisor, Correctional Education, B.A., M.A. Northeast Missouri Feathon College.

REFENDA ANDERSON

Speech, B.A. Concession College, M.A. Southand Chinais University.

CLARENCE A. ANDREWS

Erglish, B.A., M.A., Ph.D. Ouversity of Iowa,

GARLAND ASHBACHER

Agabasaness and Production Agroadure Program Character, B.S. Acon State Onversity,

SELBY A BALLANTYNE

NoDEr interfahrt, II.A. Griefensity of Northeom towa, M.S. Dryke Legwersity, Ph.D. University of towa.

MARY BARD

Medical Assistant Program, Coordinator, College Nurse, R.N. Allee Memorial School of Nursing University of Chicago, University of laws, from State University.

NANCY BARNETT

Scoudage and Anthroperogy, B.A. Michigan Stote University.

"GAYLED BAYLOR

Mathematics, B.S. Efficient State University;
 M.A. Western Michigan University;

administrative staff

RAYMOND W. BENDER

Data Proteyong, Cernifed Data Processity, Certified Petsa: Costally Caderwriter,

PIGUJP L. BICKIAT

Ornee Education, M.E. Wiscensin State Univessity.

NOV:1. BISHOP

Orthaesedi, Assistant Program, Coorditastor, R.K., Diptema, Nebraska Methodist Hespital School of Nursing

CHARLES BLANK

History, B.A. Breaklyn Unilogs, M.A. Daner aty of lows

TOWN T. BLONG

Business Manager, B.H.A. University of Iowa,

SHIRL&Y A. ROLLHOEFER

Office Education, Charmon, B.A., M.A. Striversity of Northern Dwo.

RICHARD BOYLAN

Data Processing, R.S. University of Lower, M.S.R.F. Kanses Store Teacharts Prology.

DUANE C. BRICKNER

Adult Information, Adult Distributive and Oftice Education, Consultation, R.S. West-ru-Victigan Conversity of Arizaria; M.S. Storr State Information, Retail Centricate West-on Michigan Dimensity.

GARY BRINTON

Matazmatics, B.S. University of Misseuri, M.A. University of Educate, Kataas Niete University.

BONNE BROOKS

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