

## University of Hawairi

## KAPI'OLANI

## General Catalog 1993-94



## 1993-1994 <br> ACADEMIC CALENDAR

## FALL SEMESTER 1993



## END OF FALL SEMESTER

SPRING SEMESTER 1994

| Jan 5-6, Wed-Thu $\qquad$ Registration Jan 10, Mon; Jan 12-14, Wed-Fri; Jan 18 Tue $\qquad$ Change in or Late Registration* |  |
| :---: | :---: |
|  |  |
| 12, Wed ...........................................First Day of Instruction |  |
| n 17, Mon ......................... Martin Luther King, Jr. Day (Holiday) |  |
| 18, Tue ........................................... Last Day to Add Clas |  |
| b 1, Tue ............................................ Last Day of Erase Period |  |
| Feb 21, Mon.........................................Presidents' Day (Holiday) |  |
| Feb 22, Tue $\qquad$ Last Day to Apply and Register for Credit by Examination |  |
| ar 4, Fri ............................................... Non-instructional D |  |
| Mar 4, Fri $\qquad$ Last Day to Remove Incompletes from Fall 1993 |  |
| Spring Gra |  |
| Mar 15, Tue ..................................... Last Day of all Withdrawals |  |
| ar 21-25, Mon-Fri .............................................Spring Recess |  |
| Mar 25, Fri ............................................... Kūhiō Day (Holiday) |  |
| Apr 1, Fri ..............................................Good Friday (Holiday) |  |
| Apr 2-3, Sat-Sun .....................................Non-instructional Days |  |
| May 6, Fri ............................................. Last Day of Instruction |  |
| May 7-12, Sat-Thu ................................Final Examination Period |  |
|  |  |
|  |  |
|  |  |

## END OF SPRING SEMESTER

## DISCLAIMER

This catalog provides general information about Kapi'olani Community College, its programs and services and summarizes those major policies and procedures of relevance to the student. The information contained in this catalog is not necesssarily complete. For further information, students should consult with the appropriate unit. This catalog was prepared to provide information and does not constitute a contract. The College reserves the right, without prior notice, to change, delete, supplement or otherwise amend at any time the information, requirements and policies contained in the catalog or other documents.

## Revisions and Clarifications

Since the printing of the 1993-94 Kapiolani Community College General Catalog, certain errors and other information have been corrected and updated. These sheets were created to keep the catalog as current as possible.

Calendar on inside front cover:
Under the entry Oct 15, Fri, change the phrase "from Summer, 1993" to "from Spring and Summer, 1993."

Page 5:
In the second paragraph, the phrase "...liberal arts curricula..." should read "...liberal arts, pre-baccalaureate advising curricula, and some of the vocational education curricula..."

Page 6:
In the last paragraph of the section labeled "Accreditation," the phrase "American Bar Association" should read "American Bar Association approval for the Legal Assistant Program."

Page 10:
Under Health Education, change "Home Health Aide" to "Long Term Care/Home Health Nurses' Aide."
Change the credit hours as indicated below:

| Medical Assisting Program | Associate in Science Degree (62-66) |
| :--- | :--- |
| Medical Assisting Program | Certificate of Achievement (40-41) |
| Medical Laboratory Technician Program | Associate in Science Degree (72) |
| (delete the Personal Care Attendant program) |  |
| Physical Therapist Assistant Program | Associate in Science Degree (69) |
| Respiratory Care Program | Associate in Science Degree (83-85) |
| Respiratory Care Program | Certificate of Achievement (49-50) |

Page 13:
In the box labeled "Foreign or Hawaiian Language" replace "(8 credits)" with "(7-8 credits to fulfill KCC and 15-16 for UH-Mānoa core requirements)."
in the box labeled "Group 1: The Arts ART 101, 270 (170), 280 (180)" the parentheses indicate the course number at UH-Mānoa.

Page 14:
In the group labeled Biological Sciences, "BIOL 172|" should read "BIOL 172L." In the group labeled Physical Sciences, "GG 103" should be deleted and "GG 20" should read "GG 200 (103)," where the parentheses indicate the course number at UH-Mānoa. "ASIAN 100 " should be footnoted to indicate that it satisfies the History and Culture or Social Science requirement but not both for KCC.

Pase 15:
In the first paragraph, the phrase "completing a two year program" should be replaced with "completing a program."
The two references to "ASIA 100" should be changed to "ASIAN 100."
Page 16:
Remove the references to "ENG 160" in the Allied Health, Nursing, Emergency Medical Services and Legal Assistant programs.
Add the following note: "ENG 100 or ENG 160 is required for some of the A.S. degree programs. ENG 100 and ENG 160 are equivalent for other A.S. degree programs, depending on departmental preference. Please check with the department chairperson."
Under the heading Data Processing, change "PHIL 110" to "MATH 25."

Page 17:
In the paragraph labeled "Application Deadlines" the phrase "November 15 for the Spring Semester" should be changed to "December 1 for the Spring Semester."

Page 19:
Change the headings "Practical Nursing" and "Respiratory Care Technician" to "Practical Nursing Program" and "Respiratory Care Program." Delete "Technician" in the following paragraph. Delete paragraph 5.

Page 20:
The heading "Special Requirements and Procedures" should read "Special Admission Requirements and Procedures for Legal Assistant Program."
In the paragraph starting "1. File an application..." the application deadline should be
April 1 rather than May 1
Delete the paragraph starting "2. File the residency..."
In the paragraph starting "3. Submit high school..." the transcript deadline should be April 1 rather than May 8.
In the paragraph starting "5. Currently enrolled..." replace the phrase "change of major form" with "application for selective admissions program."

Page 33:
In the section labeled General Education of the Pre-Business Advising Program, "QM 250" should read "QM 252."
In the section labeled Natural Sciences, "Any course from Group or Group II" should read "Any course from Group I or Group II."

Page 34:
In the section labeled Social Sciences, change "(three courses from different departments)" to "(a minimum of 9 credits)." Change "FAMR 230 or PSY 100, 240" to "FAMR 230 or PSY 240." At the start of the line beginning AMST 211, insert the phrase "Choose two courses from two different disciplines from the following." Insert "PSY 100" in front of "PSY 170."

Page 35:
In the second column in the section labeled Social Science Electives, change "GEOG 101" to "GEOG 102." In the section labeled Humanities Electives, "ENG 3251" should be "ENG 251."

Page 44:
In the second column under First Semester Credits, replace "ENG 197" with "ENG 160."
Page 51:
At the bottom of the first column, change the phrase "Certificate of Completion in Culinary Ars" to "Certificate of Completion in Patisserie."

Page 54:
In the first column in the section labeled First Semester, change "FSHE 120" to "FSHE 150."

Page 57:
In the second column, delete the paragraph beginning "Perform business..."
Page 59:
In the section labeled Second Semester, replace "MEDAS 130," "MEDAS 130L" and "MEDAS 135" with "MEDAS 140," "MEDAS 140L" and "MEDAS 145," respectively. Delete "ENG 160."
In the section labeled Fourth Semester, replace "FSHE 185" with "FSHE 185 or 285. " In the heading Medical Laboratory Technician Curriculum Associate in Science Degree, replace "(71 Semester Credits)" with "(72 Semester Credits)."
Page 60:
In the section labeled First Semester, "HLTH 130" should have a footnote reading: "First Aid and CPR certification required, may be achieved by successful completion of HLTH 130." In the section labeled Second Semester, delete "ENG 160, Business/Technical Writing."

## Page 63:

Change the section labeled "Spring Semester" to "Fourth Semester" and then insert just before it the following semester schedules.
First SemesterZOOL 141, Human Anatomy and PhysiologyZOOL 141L, Human Anatomy and Physiology LabCredits3
MATH 25, Elementary Algebra (or higher) ..... 31
ENG 100, Expository Writing ..... 3
*PTA 100, Introduction to Physical Therapy ..... 3COMUN 145, Interpersonal Communication
or SP 151, Personal and Public Speech ..... 3
13. 16
Second Semester
Credits
ZOOL 142, Human Anatomy and Physiology ..... 3
ZOOL 142L, Human Anatomy and Physiology Lab ..... 1
PHYS 100, Survey of Physics ..... 3
PHYS 100L, Survey of Physics Lab ..... 1
FAMR 230, Human Development or PSY 100 Survey of Psychology ..... 3
**HLTH 125, Survey of Medical Terminology ..... 1
Humanities Elective ..... 3
**HLTH 130 First Aid and CPR ..... 16
*"may be taken credit by examination
***may be satisfied by proof of current certification in First Aid and two-rescuer CPR.
Admission and selection to the second year requires satisfactory completion of all first year courses.
Third Semester ..... Credits
*PTA 100, Introduction to Physical Therapy ..... 3
PTA 201, Transfers, Positioning, Mobility and Assistive Devices ..... 1
PTA 202, Thermal Agents ..... 1
PTA 202L, Thermal Agents Lab ..... 1
PTA 203, Therapeutic Exercise ..... 1
PTA 203L, Therapeutic Exercise Lab ..... 1
PTA 204, Traction ..... 1
PTA 205, Measurement for the PTA ..... 1
PTA 245, Clinical Practicum and Seminar I ..... 4
HLTH 290, Kinesiology ..... 2
HLTH 290L, Kinesiology Lab ..... 1
*Strongly recommended to be taken prior to admission to the PTA program

## Page 64:

Under the heading Respiratory Care Curriculum, replace "86 Semester Credits" with "83-85 Semester Credits" and replace "47-50 Semester Credits" with "49-50 Semester Credits."

Page 65:
In the first column under Prerequisite Courses for the Respiratory Care Curriculum, change "HLTH 126" to "HLTH 125 Survey of Medical Terminology."
In the section labeled Spring l, the total credits should be 15.
In the second column, change "***Recommend HUM 100, PHIL 207. HIST 151" to
"***Recommend HUM 100, PHIL 297, HIST 151."
Page 73:
In the 3rd to last paragraph in the second column, replace the phrase "The courses which follow..." with the phrase "The courses listed on pages 13 and 14..."
In the !ast paragraph in the second column, replace the phrase "...specific requirements listed below..." with the phrase "...specific requirements listed on pages 13 and 14..."

Page 76:
In the second column under Office Administration - General, change "Specialization A: NonShorthand" to "Specialization C: Non-Shorthand."

## Page 77:

In the first column, change "Specialization B: Symbolic Shorthand" to "Specialization A: Symbolic Shorthand." Also in the first column, change "Specialization C: Alpha Shorthand" to "Specialization B; Alpha Shorthand."

## Page 78:

In the first paragraph in the second column, add the entry "NS3 - Group 3 Other Sciences." Throughout the catalog, "N51," "N52","and "N53" should be replaced by "NS1," "NS2," and "NS3," respectively.
In the second paragraph under the heading "Foreign Language Courses" change the phrase "...receive credit of any kind for..." to "...receive credit for..."

Page 130:
In the second column under "125 Survey of Medical Terminology (1)", change "HLTH 21C" to "HLTH 110."

Page 131:
The prerequisites for HLTH 280 should read "BIOL 130 or ZOOL 141."

## Page 132:

The prerequisites for HLTH 290 and 290L should read "BIOL 130 or ZOOL 141."

## Page 184:

In the second column, change the second "272 General Physics II (3)" to "272L General Physics II Lab (1) 3 hours lab per week."

## Page 186:

In PSY 260, add ENG 160 to Recommended Preparation.

## Page 187:

In PSY 270, add ENG 160 to Recommended Preparation.
The information contained in this Revisions and Clarifications addendum is not necessarily complete. For further information, students should consult with the appropriate unit. This addendum was prepared to provide information and does not constitute a contract. The College reserves the right to, without prior notice, change or delete, supplement or otherwise amend at any time the information, requirements, and policies contained in this addendum.

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## MOST FREQUENTLY ASKED QUESTIONS:

## 'A 'ohe mea 'imi a ka maka <br> Everything one desires is in his presence.

1. How do I know whether I qualify for resident tuition?

An official determination of residency status will be made at the time of application. Applicants may be required to provide documentation to verify residency status. Residency regulations and statutory exemptions are provided on page 17.
2. If for some reason I cannot complete my stay at Kapi'olani Community College, do I forfeit my tuition?
KCC has refund policies on tuition and special course fees. For complete information, see page 21.
3. What are some of the deadlines that I should know about?

Most deadlines are listed on the Academic Calendar on inside front cover. However, students must inquire about other possible deadlines within their major programs.
4. Is it possible to be enrolled at two different campuses (within the University of Hawai'i system) at the same time?
Students may register concurrently at another campus; to do so, students must obtain an Application for Concurrent Registration Form. See page 25 for more details.
5. How can I transfer to UH-Mănoa or any other four-year institution from KCC?

Transfer information is provided for you on page 32.
6. What are KCC's graduation requirements?

The degree and certificate programs at KCC have different graduation requirements. Please see page 12 for specific information.
7. Does KCC offer Credit by Examination?

KCC does offer Credit by Exam for selected courses, and students may register for it during registration. See page 39 for more details.
8. Does KCC offer housing facilities?

KCC does not maintain dormitories; however, limited alternatives are available. Please see page 29.
9. What are some of the student services that KCC offers?

The Student Services Office at KCC offers several support services. Currently, there are five primary locations for student assistance. See page 28 for more details.
10. Does KCC offer any kind of financial assistance?

Although all financial aid programs are subject to change due to legislative action, there are several types of assistance available. Please see page 22 for more information.

## KAPI'OLANI COMMUNITY COLLEGE

BE A PART OF OUR HERITAGE AND DREAM


Photo by Moriso Teraoka

## OUR HERITAGE

## Nani Léahi, he maka no Kahiki. Beautiful Lésahi, object of the eyes from Kahiki.

The beauty and drama of Lé'ahi or Diamond Head has always enticed the imagination of visitors to Hawai'i. A new landmark has emerged upon the land nestled in the shadow of Lē'ahi, the graceful campus of Kapi'olani Community College. An open-door college that provides academic and vocational education to anyone 18 years or older, Kapi'olani Community College understands that Hawai'i's past must be respected and perpetuated as we step into the future.

Be a part of our heritage of land. The new Diamond Head campus blends into the red earth landscape with buildings designed to complement the environment. Hawaiian flora has been planted to enrich the beauty of the campus and enhance the peacefulness conducive to learning. Our buildings are named after the verdant trees and plants of Old Hawai'i.

Be a part of our heritage of people. The ancient Hawaiian people once lived and worshipped on this land. Within their heiau (temples) and halau (schools), skills and wisdom were for hundreds of years passed from generation to generation. It is fitting that this blessed earth should now house a college where palapala (learning) should be perpetuated.

Be a part of our heritage which is our name. Julia Kapi'olani Napela-Kapu-o-Kaka'e was an ali'i or chieftess who was beloved by her people as Queen Kapi'olani. She and her husband, King Kaläkaua, reigned during the turbulent years of 1874 to 1891. These were difficult years for the Hawaiian people as diseases and cultural shock reduced the population to less than 45,000 . As King Kalākaua struggled to revive cultural pride and political autonomy for Hawaiians, Queen Kapi'olani dedicated herself to preserving her race. Actively soliciting funds for the care of Hawaiian children and women who could not afford modern medicines, she was instrumental in founding Queen Kapi'olani's Hospital in 1890. Nearly a century later, Kapi'olani Women's and Children's Medical Center serves the Pacific basin as a major medical facility.

Kulia I Ka Nu'u, Strive for the Highest, was the motto she adopted for her royal seal. With pride and responsibility, Kapi'olani Community College has assumed the Queen's name and motto. Our challenge is to preserve and perpetuate that heritage of excellence.


Photo by Moriso Teraoka

## OUR DREAM

## He'elele ka moe na ke kanaka.

## A dream is a bearer of messages to man.

Kapi'olani Community College looks to the future. With the growth of the Diamond Head campus, faculty, staff and administrators are excited by dreams and aspirations of what this college may become to the people of Hawai'i. A community college is dedicated to being a place of learning and service that cuts across differences of race, age, sex, social background or educational preparation. Kapi'olani Community College's commitment, then, is to uplift and enrich the knowledge and opportunities of our ever-changing Island society.

Be a part of our dream to provide you with an outstanding education. If you are eager to pursue a career in business, nursing, food service or hospitality, Kapi'olani Community College offers a two-year program that gets you started in the right direction. Our Allied Health, Emergency Medical Services and Legal Assistant programs are the only ones of their kind offered in Hawai'i. If you are planning to pursue a bachelor's degree, consider the advantages of enrolling in the liberal arts curricula leading to an Associate in Arts or Science degree.

Be a part of our dream to enhance your learning environment. At Kapi'olani Community College, the graceful courtyards, scenic vistas and modern classrooms are ideal for study. Our learning centers are equipped with the finest audio-visual and microcomputer facilities. Campus activities range from the International Festival to music and drama productions, literary readings, clubs and culinary demonstrations. Classes are small and the instruction personal and immediate. Our faculty is diverse, innovative and recognized for its research and excellence in teaching.

Be a part of our dream to expand our services to the community with innovative new programs. In the next decades the excitement at Kapi'olani Community College will be contagious as we reach out to businesses, visitor industry personnel, families, senior citizens and anyone interested in culture and the arts, history, computer literacy or self-growth. If you always thought college was only for young students, Kapi'olani Community College will revolutionize your idea of school.

Our dreams can become your reality. We invite you to join us as we step towards the 21 st century.

# The College and its Policies 

## Ma ka hana ka 'ike.. In working one learns.

Knowledge in ancient Hawai'i was gained through discipline, working, observation of nature and an abiding respect for spirit, earth and life. Human beings demonstrated wisdom and skills, not through how much they said they knew, but through their actions and deeds.

Kapioolani Community College understands the importance of learning through doing, of providing meaningful experiences that uplift and improve the quality of life and opportunity open to every individual. As an open-door, community based school of higher education, the College is designed to enrich lives by offering academic and vocational programs of a comprehensive nature.

The College offers liberal arts curricula and vocational programs in Business, Nursing and Food Service and Hospitality, as well as the only Allied Health, Emergency Medical Services, and Legal Assistant programs in the State. The College currently offers the Associate in Arts degree, Associate in Science degree, Certificates of Achievement and Certificates of Completion in over 20 career fields and a variety of shorter term credit and non-credit training programs. The Office of Community Services offers short-term non-credit programs in a variety of areas including computer education, small business assistance, visitor industry training, historical and cultural interpretations of Hawai'i and a growing senior citizen program.

The campus of Kapiolani Community College is located on a scenic 52 -acre site near the historic landmark of Diamond Head Crater.

Kapi'olani Community College is one of seven community colleges in the University of Hawai'i system, a multi-campus system of higher education serving the State of Hawai'i. Also included in the system are the UH-Mānoa, University of Hawai'i at Hilo, University of Hawai'i-West O'ahu and the Employment Training Center. These institutions are all governed by the Board of Regents and the President of the University of Hawai'i is the chief officer for the system.

The seven Community Colleges and the Employment Training Center are under the overall supervision of the Chancellor for Community Colleges. Each Community College has its own Provost and administrative officers.

## HISTORY

In 1957, Kapiolani Technical School was formed by consolidating programs in Hotel and Restaurant, Practical Nursing and Business Education. It was a technical, post-secondary school administered by the Territorial Department of Public Instruction which was later renamed the State Department of Education.

The technical school was transferred to the University of Hawai'i system in 1965 and established as Kapi'olani Community College. Since this change, the College has expanded its occupational program offerings and added a liberal arts program in which students may undertake course work leading toward a four-year baccalaureate degree program and a community services program offering short non-credit courses.

## EDUCATIONAL PHILOSOPHY

Kapiolani Community College's philosophy is to assist each individual in the lifelong process of personal growth through education. To fulfill this goal, the College continually seeks to offer innovative programs based on a variety of teaching methods to encourage students to kulia i ka nu'u - strive for the highest.

The College also responds to the needs of the community, identifying current interests or trends and providing programs that enrich public education. The College maintains close ties with business, government and social institutions and utilizes the community resources and representatives in curriculum planning and development.

In appreciation of the need for community exchange and expertise, the College has invited a number of community leaders in business, industry and the professions to advise its staff in keeping curricula and requirements current. Consultations with these leaders relate to course content, selection of training equipment, employment needs and evaluation of the effectiveness of different programs.

Advisory committees are formed as new needs and programs are identified. Current advisory committee members are listed in the back of this catalog.

## ACCREDITATION

Kapiotani Community College is accredited by the Western Association of Schools and Colleges (WASC).

Special accreditation has been granted by the Board of Nursing, State of Hawai'i; the Committee on Allied Health Education and Accreditation of the American Medical Association in cooperation with the National Accrediting Agency for Clinical Laboratory Sciences; the Joint Review Committee on Education in Radiologic Technology; the Council on Medical Education of the American Medical Association in collaboration with the American Association of Medical Assistants; the American Occupational Therapy Association, Inc.; the Joint/Review Committee for Respiratory Therapy Education; and the American Bar Association.

## POLICIES AND RIGHTS EDUCATIONAL RIGHTS AND PRIVACY OF STUDENTS

Pursuant to Section 99.6 of the rules and regulations governing the Family Educational Rights and Privacy Act of 1974 (hereinafter the Act), students in attendance at Kapi'olani Community College are hereby notified of the following:

1. It is the policy of Kapi'olani Community College to subscribe to the requirements of Section 438 of the General Education Provision Act, Title IV, of Public Law 90-247, as amended, and to the rules and regulations governing the Act, which protect the privacy rights of students.
2. The rights of students under the Act include the following,


Photo by Bryan Sekiguchi The Natural Science Center provides students with anatomical models, videos, computer with interactive software and tutors.
subject to conditions and limitations specified in the Act:
a) The right to inspect and review educational records.
b) The right to request to amend education records.
c) The right of protection from disclosure by Kapi'olani Community College of personally identifiable information contained in education records without permission of the student involved.
d) The right to waive certain rights under the Act.
e) The right to file complaints concerning alleged failure by Kapi'olani Community College to comply with the Act.
3. Students are advised that institutional policy and procedures required under the Act have been published as Administrative Procedure A7.022, Procedures Relating to Protection of the Educational Rights and Privacy of Students. Copies of AP A7.022 may be obtained from the Office of the Dean of Student Services, Kapi‘olani Community College.
4. Directory Information

Students are advised that certain personally identifiable information is considered by the College to be directory information and, in response to public inquiry, may be disclosed in conformance with state law, at the College's discretion without prior consent of the student unless the student otherwise so informs the College not to disclose such information.
a) Name of student.
b) Local address and zip code maintained in the campus locator printout.
c) Local telephone number maintained in the campus locator printout.
d) Major field of study.
e) Educational level (e.g., freshman, sophomore, etc.)
f) Fact of participation in officially recognized activities and sports.
g) Weight and height of members of athletic teams.
h) Dates of attendance.

## i) Degrees and awards received.

A student has the right to request that any or all degrees and awards received not be designated directory information. A student wishing to exercise this right must inform the Registration and Records Office which of the above items are not to be disclosed without prior consent, in person and in writing, not: earlier than the first day of instruction nor later than fourteen calendar days from the first day of instruction for the academic term or semester or the fourth day of a summer session.
5. A parent or spouse of a student is advised that information contained in educational records, except as may be determined to be directory information, will not be disclosed to him/her without the prior written consent of the son, daughter or spouse.

## NOTICE TO STUDENTS WITH DISABILITIES

In compliance with requirements relating to nondiscrimination on the basis of the handicap (Section 504, Rehabilitation Act of 1973, rules effective June 3, 1977), Kapi'olani Community College prohibits discrimination on the basis of handicap and assures qualified students with disabilities access to all programs of the College.

Copies of Kapi'olani Community College's procedures for resolution of discriminatory complaints may be obtained from the Office of the Dean of Student Services. Support services and auxiliary aids are offered through the Special Services Office. For further information please call or visit:

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## UNIVERSITY POLICY ON NON-DISCRIMINATION AND AFFIRMATIVE ACTION

The University of Hawai'i is an Equal Opportunity/Affirmative Action Employer. It is the policy of the University of Hawai'i to comply with Federal and State laws which prohibit discrimination in University programs and activities, including but not necessarily limited to the following laws which cover students and applicants for admission to the University: Title VI of the Civil Rights Act of 1964 as amended (race, color, national origin); Age Discrimination Act of 1975 (age); Titles VII and VIII of the Public Health Service Act as amended (sex); Title IX of the Education Amendments of 1972 (sex, blindness, severely impaired vision); Section 504 of the Rehabilitation Act of 1973 (physical or mental handicap); and to comply with Federal and State laws which mandate affirmative action and/or prohibit discrimination in recruitment, hiring, training, promotion, and retention, including but not necessarily limited to the following laws which cover employees and applicants for employment: Title VII of the Civil Rights Act of 1964 as amended (race, color, national origin, religion, sex, pregnancy); Executive Order 11246 as amended (race, color, national origin, religion, sex); Equal Pay Act of 1963 as amended by Title IX of the Education Amendments of 1972 (sex); Age Discrimination in Employment Act of 1967 (ages 40-70); Section 402 of the Vietnam Era Veteran's Readjustment Assistance Act of 1974 (veteran's status); Section 503 and 504 of the Rehabilitation Act of 1973 (physical or mental handicap); Hawaii Revised Statutes Chapter 76, 78, 378 (race, sex, age, religion, color, ancestry, political affiliation, physical or mental handicap, marital status, arrest and court record). The University strives to promote full realization of equal opportunity through a positive, continuing program on each campus. Accordingly, vocational education opportunities will be offered without regard to race, color, national origin, sex or handicap. American citizens or immigrants with limited English speaking skills will not be denied admission to vocational education programs. In addition, employees and
applicants for employment are protected under Title IX and section 504.

As an integral part of its Policy on Nondiscrimination and Affirmative Action, the Office of the President, University of Hawai'i, hereby declares and reaffirms its commitment to the University's pursuit of equal education and employment opportunity and further declares that any harassment of students or employees on the basis of sex is prohibited and will not be tolerated. Students, employees or applicants for admission or employment who believe that they have been discriminated on the basis of race, sex, age, religion, color, ancestry, physical, handicap, marital status, veteran's status or arrest and court record may file a complaint with the Personnel Officer/EEO Coordinator, Sandra Uyeno, (734-9575), 'Ilima 210. She will explain the available avenues of recourse and direct the person to the appropriate Hearing Officer.

Individuals designated to coordinate the community college's nondiscrimination and affirmative action programs are:

Rg Logiakis (Education matters) Phone: 956-3865
Peggy S. Hong (Employment matters) Phone: 956-3874
Office of the Chancellor for Community Colleges
2327 Dole Street
Honolulu, Hawai'i 96822

Ralph Ohara (Education and Civil Rights matters), 734-9522
Sandra Uyeno (Employment matters), 734-9575
Kapi'olani Community College
4303 Diamond Head Road
Honolulu, Hawai'i 96816
Students may also file complaints of discrimination with the Office of Civil Rights, U.S. Department of Education, Old Federal Building, 50 United Nations Plaza, Rm. 239, San Francisco, CA 94102, Ph. (415) 556-7035.


Photo by Mike Ho
The annual job fair gives students a chance to meet prospective employers and find out about the job market.

## Our Commitment to Your Education

## Elawe i ke a'o a malama, a e'oi mau ka na'auao. He who takes his teachings and applies them increases his knowledge.


#### Abstract

Kapi'olani Community College is committed to making your educational experience challenging, informative, usef:! and geared to your needs. Learning is more than information; it is the process by which you acquire the tools so that you can apply your knowledge wisely and successfully. During your college experience, you will be strengthened in four important skills that comprise the college's institutional emphases:


## EFFECTIVE WRITING

The ability to communicate effectively your thoughts in written language is an invaluable tool that will find lifetime application regardless of your future career goals. Writing Across the Curriculum (WAC) is a Kapi'olani Community College emphasis that offers a variety of experiences for encouraging your growth in writing, including courses in which you are expected to write intensively with the direct assistance of your instructors and writing for college publications such as Kapi'o, Ka Nani and the Diamond Journal. The Learning Assistance Centers offer assistance in organizing your ideas and developing themes. Instructors are always ready to provide help, comments and direction as you strengthen your technique, style and confidence.

## CRITICAL THINKING

Critical thinking is the foundation of your success. Learning how to reason, solve problems, make decisions and think creatively are among the most important skills you can acquire from a college education. The Thinking and Reasoning Emphasis (TRE) is Kapi'olani Community College's commitment to providing you the best, most modern techniques of intelligence building. The purpose of the TRE Project is to assist students in the further development of thinking skills through planned educational experiences in all campus settings. In the classroom and laboratory, in counseling, occupational and clinical settings, and in the library and Learning Assistance Center, the college will encourage independent thought, self-reliance and the freedom of creative expression.

## MODERN COMPUTING

The revolution of technology is upon us and Kapi'olani Community College is ready to help you grasp the Age of the Computer. Computing Across the Curriculum is a college emphasis on providing broad based computer literacy at a variety of levels. Students in the data processing programs receive technical training at a professional level. In courses throughout the curriculum, students are encouraged to make functional use of computers and understand the applications and implications of modern informational processing. The Computing Center at the Diamond Head campus contains IBM-AS400, Macintosh, and IBM PC microcomputers as well as PLATO terminals.

## CROSS-CULTURAL UNDERSTANDING

Hawai'i is a multi-cultural society and Kapi'olani Community College recognizes the need for an education that embraces cross-cultural perspectives. The Kapi'olani Pacific/Asian Emphasis (KAPE) is a curriculum-wide effort to stimulate cultural understanding through comparative studies of American, Pacific Island and Asian societies. Special workshops, student activities, language courses and multicultural studies will provide you with an ability to communicate and function in our multi-ethnic island community and in an ever more interdependent world.

## MATHEMATICAL REASONING

The ability to understand basic mathematical ideas and perform mathematical computations is critical to success to today's world. To participate as a contributing citizen and to find employment in modern vocations and professions, mathematics is essential. Special workshops aimed at increasing your "math confidence" are available throughout the year. The learning assistance centers have tutors and computer based programs to help with math skills development. Counselors and instructors will help you to find the appropriate sources for the mathematics development that you need to succeed.

## Degree and Certificate Programs

He pūkóa kani 'āina.A coral reef that grows into an island.

## BUSINESS EDUCATION

## Accounting Program

Associate in Science Degree (60)
Certificate of Achievement (30)
Certificate of Completion (15)
Payroll \& Accounts Clerk
Data Processing Program
Associate in Science Degree (60)
Certificate of Achievement (30)
Certificate of Completion (12)
Sales and Marketing Program
Associate in Science Degree (60)
Certificate of Achievement (30)
Office Administration and Technology Program
Associate in Science Degree
Office Administration-General (60)
Office Administration-Legal (70)
Certificate of Achievement
Stenography (44)
Word Processing (39)
Medical Transcription (42)
Certificate of Completion
Court Reporting (28)
Clerical (31)
Advanced Certificate of Completion
Administrative (15)
Administrative-Legal (15)

## FOOD SERVICE AND HOSPITALITY EDUCATION

## Food Service Program

Associate in Science with options in:
Food Service-Culinary Arts (64)
Food Service-Patisserie (62)
Food Service Management-School Food Service (63)
Food Service Management-Health Care (64)
Certificate of Completion with options in:
Dining Room Service (16)
Waiter/Waitress)
Patisserie (18)
Culinary Arts (17)
Hotel Operations Program
Associate in Science Degree (64)
Certificate of Completion (16)

## health education

Adult Residential Care Home
Certificate of Completion (3)
Dental Assisting Program
Certificate of Completion (16)
Emergency Medical Technician Program
Certificate of Completion (18)
Home Health Aide
Certificate of Completion (4)
Medical Assisting Program
Certificate of Achievement (40)
Associate in Science Degree (64)
Medical Laboratory Technician Program
Associate in Science Degree (70)
Certificate of Completion
Phlebotomy (5)
Mobile Intensive Care Technician Program
Associate in Science Degree (72)
Nurses'Aide Program
Certificate of Completion (8)
Occupational Therapy Assistant Program
Associate in Science Degree (66)
Personal Care Attendant
Certificate of Attendance (4)
Physical Therapist Assistant Program
Associate in Science Degree (68)
Practical Nursing Program
Certificate of Achievement (41)
Radiologic Technology Program
Associate in Science Degree (85)
Registered Nursing Program
Associate in Science Degree (74)
Respiratory Care Program
Associate in Science Degree (87)
Certificate of Achievement (45)
LEGAL ASSISTANT

Legal Assistant Program
Associate in Science Degree (60)

LIBERAL ARTS

Liberal Arts Program
Associate in Arts Degree (60)

Note: Numbers in parenthesis indicate credit hours required for completion of programs.

## COMPETENCY-BASED EDUCATION

Competency-based education emphasizes the outcomes of learning, rather than the experience of the time spent in learning. In Competency-based education, the course and program objectives are stated in terms of the actual abilities that a student should have acquired by the time they complete the course or program. Such an approach helps the student to understand the relevance of what they are learning in class to a chosen career.

Competency-based education helps to clarify the outcomes of instructional programs and courses by: (1) improving communication with students, with the general public including employers, and among the faculty and staff; and (2) improving the internal and external assessment of programs to determine the effectiveness of the College's training.

In addition, the established program and course competencies serve as the reference for the development of alternative modes of learning.

Programmatic competencies are shown in the section on curricula; course competencies are shown in the course descriptions.

## GENERAL COLLEGE COMPETENCIES

Individuals who begin, in a small way, carefully taking the steps needed to reach their goal, gain steadily until they become firmly established. Your college education is the same process of steady development to the successful completion of your educational goals.

Kapi'olani Community College provides a framework for student achievement of competence, emphasizing communicative
ability and critical thinking. The framework consists of diverse disciplines which, in combination, help each student to establish constructive personal and social relationships and foster intellectual growth. Competence is characterized by the ability to make conscious and informed use of knowledge, skills and attitudes relevant to a particular situation. Each program in the College is oriented to the following eight competency areas:

1. Computation and communication abilities
2. Values for living
3. Quality of life as affected by technology and science
4. Awareness of the dynamics in contemporary issues
5. Problem-solving and decision-making abilities
6. Responsiveness to the arts and humanities
7. Career choices and life-long learning
8. Study in a selected program

## DEGREES AND CERTIFICATES OFFERED

The College offers the Associate in Arts degree (A.A.), the Associate in Science degree (A.S.), Certificate of Achievement (C.A.), and Cerlificate of Completion (C.C.). These degrees and certificates differ in the number and type of courses required to fulfill all requirements. Some students may not wish to pursue a certificates or a degree at all but select their courses of study according to their own personal interests or occupational needs.

However, the two degrees that the College offers - the Associate in Arts and the Associate in Science - share a requirement for completion of basic course requirements intended to satisfy common goals in general education adopted by the College.


Photo by Bryan Sekiguchi
A youngster gets a taste of services provided by paramedics during a demonstration at the Emergency Medical Services pog contest, designed to promote health and safety awareness among children of all ages in Honolulu.

## APPLICATION FOR GRADUATION

Applications for an Associate of Arts Degree, Associate of Science Degree or Certificate of Achievement may be oblained at the Office of Registration and Records. Students must submit the graduation application by October 15 for the fall semester, by March 15 for the spring semester and by June 15 for the summer session.

Applications for a Certificate of Completion may be obtained at the office of the instructional department offering the certificate. Students should inquire about application deadlines at the appropriate department office.

Students may apply for the degree or certificate only in their declared major field of study. They must meet a set of requirements for graduation as stated in the catalog either at the time of entry or in any subsequent catalog, if enrollment is not interrupted. Requirements from different catalogs may not be used interchangeably.

## ASSOCIATE IN ARTS (A.A.) DEGREE

The Associate in Arts degree is awarded to students who complete a minimum of 60 units of credits as outlined below. The Associate in Arts degree program, also known as the Liberal Arts Program, is designed to prepare students for transfer to a four-year university or college.
The requirements for the Associate in Arts degree are:

1. Required credit hours: 60 in courses numbered 100 or above as listed in the Liberal Arts program.
2. Minimum cumulative grade point average: 2.0
3. Course selection: As described under the Liberal Arts program.
4. Residency: Final 12 credit hours toward the degree must be earned at Kapi'olani Community College. The residency requirement may be waived for cause at the option of the Dean of Instruction or Provost. The Residency Waiver Form must be completed and approved before the student leaves or transfers to another institution. The Dean or Provost may also approve use of credit by examination to meet residency requirements. Students should note that baccalaureate degree requirements vary at UH-Mānoa and should see their academic counselor for details.


Photo by Moriso Teraoka
Above: Awards for outslanding achievement in Hotel Operations are presented at the annual Food Service Awards banquet.

## ASSOCIATE IN ARTS DEGREE COMPETENCIES

A graduate of Kapi'olani Community College who completes an Associate in Arts degree should be able to:

1. Employ those skills in communication, mathematics and historical content essential to further college work.
2. Show by completion of courses in the Humanities (American studies, art, dance, drama, history, literature, music, philosophy, or religion) sensitivity to values, awareness of their expression in various cultures and understanding of their importance in the quality of life.
3. Follow the steps employed in the scientific method for valid conclusions or demonstrable hypotheses as used in the natural sciences.
4. Correlate the skills and understanding learned in the physical and biological sciences to produce an awareness of our technological and natural environment.
5. Gather and filter data, compose and refine conclusions, solutions and alternatives to issues or concerns posed in social science courses.
6. Demonstrate awareness of human experience and theory examined in the social sciences, providing evidence of a basic knowledge of at least two specific social sciences disciplines.
7. Show, by completion of elective and/or required courses, the educational background necessary for more specific professional and personal goals.
8. Make a decision if desired about further course of study in a four-year college, with a capacity to declare a major and select courses directed toward that major, based upon a realistic assessment of personal needs and aspirations.


Photo courtesy of Bartola Pacampara
Associate Degree Nursing students receive their degrees.

COURSES SATISFYING A.A. DEGREE REQUIREMENTS

The courses which follow are divided into two categories - those which fulfill both UH-Mānoa and KCC core requirements and those which fulfill KCC core requirements only.

Siudents intending to transfer to UH-Mānoa must be careful when selecting courses which satisfy only KCC requirements. Students should note that baccalaureate degree requirements vary at UH-Mānoa and should see their academic counselor for program details. Substitutions to the A.A. Degree requirements may be granted if identical substitutions are officially granted to a college at UH-Mānoa.

Students majoring in Liberal Arts may substitute other courses for a specific requirement listed below if the Dean of Instruction agrees that the substitution is required at the College to which the student intends to transfer. The student must complete and submit a course waiver form with supporting documentation.


## Area Requirements

Arts and Humanities: (three semester courses, one selected from three of the four groups)
$\left.\begin{array}{|l|l|l|l|}\hline \text { Group 1: The Arts } & \begin{array}{l}\text { (Mainly theory) } \\ \\ \text { ART 101, 270 (170), 280 (180) } \\ \\ \text { DANCE 150 }\end{array} & \text { HUM 100, 150 } \\ & \text { DRAMA 101 (THEA 101) } & \\ & \text { MUS 106, 107, 108 }\end{array}\right)$

| A.A. Degree Requirement | Fulfills KCC and UHM Core Requirements | Fulfills KCC Requirement Only |
| :---: | :---: | :---: |
| Group 2: History and Culture | AMST 201, 202 <br> ASIAN 100 $\begin{aligned} & \text { HIST } 224,241,242,252, \\ & 281,282 \end{aligned}$ | $\begin{aligned} & \text { SSCI } 120 \\ & \text { HIST } 288 \end{aligned}$ |
| Group 3: Language and Literature | EALL 271, 272 <br> ENG 250, 251, 252, 253, 254, 255, 256, 257 | LING 102 |
| Group 4: Value and Meaning | PHIL 100, 102, 200, 201 REL 150, 151, 200, 201, 209 |  |

Natural Sciences: three semester courses, including at least one lab course. One course must be from Group 1 and one from Group 2

| Group 1: Biological Sciences | $\begin{aligned} & \text { BIOL 130, 130L, 171, } 171 \mathrm{~L} \text {, } \\ & \quad 172,172 \text { I } \\ & \text { BOT } 101,101 \mathrm{~L}, 130,130 \mathrm{~L} \\ & \text { MICRO 130, } 140 \\ & \text { SCI 121, 121L } \\ & \text { ZOOL 100, 101, 101L, } 141 \text {, } \\ & \text { 141L, 142, 142L, } 200 \end{aligned}$ |  |
| :---: | :---: | :---: |
| Group 2: Physical Sciences | $\begin{aligned} & \text { BIOCH } 241,244 \\ & \text { CHEM 100, 151, 151L, 152, } \\ & 152 \mathrm{~L}, 161,161 \mathrm{~L}, 162,162 \mathrm{~L} \\ & \text { GG } 101 \mathrm{~L}, 103,20 \\ & \text { PHYS 100, 100L, 151, 151L, } \\ & 152,152 \mathrm{~L} \\ & \text { SCl 122, 122L } \end{aligned}$ | ASTR 110 <br> CHEM 101 |
| Group 3: Other Sciences | $\begin{aligned} & \text { GEOG 101, } 101 \\ & \text { ICS } 111 \\ & \text { OCEAN } 201 \\ & \text { SCl 124, 124L } \end{aligned}$ |  |

Social Science: three semester courses from three different disciplines
(9 credits)
AMST 211, 212
ANTH 150, 200
BOT 105
ECON $120,130,131$
FAMR 230
GEOG 102,151
JOURN 150
POLSC $110,120,130,171$
PSY 100, 170
SOC 100, 218, 231

ASIAN 100
PSY 202 (WS 202)
SOC 251
SSCI 120

FAMR 230
GEOC 102, 151
JOURN 150
POLSC 110, 120, 130, 171
PSY 100, 170
SOC 100, 218, 231

Electives: A minimum of nine credits in semester Liberal Arts courses numbered at or above the 100 level, or specific courses numbered above 100 that fulfull transfer requirements of a receiving college at UH-Mānoa.

## ASSOCIATE IN SCIENCE (A.S.) DEGREE

The Associate in Science degree is awarded to students successfully completing a two year program of vocational-technical courses and related general education courses. The purpose of the A.S. program is to prepare students for gainful employment. A secondary purpose for some of the A.S. degrees is to prepare students for continuing education. Courses in the Legal Assistant Program, Food Service and Hospitality Education Programs, and some Business and Allied Health programs are transferable to baccalaureate programs in applied fields. Pre-baccalaureate advising facilitates this transfer.

The requirements for the Associate in Science degree are:

1. Required credit hours: 60 to 65 , unless external requirements exceed this number.
2. Minimum grade point average: 2.0 . Some programs may have additional scholarship requirements.
3. Minimum General Education Course requirements: Sce below and check program requirements in your major area for any specified Humanities, Natural Science and Social Science courses.
4. Minimum Communications and Mathematics and Logical Thinking Skills requirements: Sce below and check courses required by major program to satisfy the minimum required Communications and Mathematics and Logical Thinking Skills.
5. Courses required by major program.
6. Electives as needed to meet total credit hour requirements.
7. Residency: Final 12 credit hours in major must be earned at Kapi'olani Community College. The residency requirement may be waived for cause at the option of the Dean of Instruction or Provost. The Residency Waiver Form must be completed and approved before the student leaves or transfers to another institution. The Dean or Provost may also approve use of credit by examination to meet residency requirements at their discretion.

## ASSOCIATE IN SCIENCE DEGREE COMPETENCIES

A graduate of Kapi'olani Community College who completes an Associate in Science degree should be able to:

1. Employ skills and understanding in language and mathematics essential to fulfill program requirements.
2. Understand attitudes and values of various cultures and examine their potential for improving the quality of life and meaningfulness in work.
3. Recognize effects of technology and science on the natural and human environments.
4. Understand contemporary issues and problems and respond to the impact of current conditions.
5. Demonstrate abilities of conceptual, analytic and critical modes of thinking.
6. Develop insights into human experience and apply them to personal, occupational and social relationships.
7. Recognize relevance of career choices to life-long learning.
8. Demonstrate competence in a selected program of study.

## A.S. DEGREE GENERAL EDUCATION COMPETENCIES

Ceneral education is that part of education which encompasses the common knowledge, skills and attitudes needed by each individual to be effective as a person, a family member, a worker and a citizen. General education is integrated with, but different in empha-
sis and approach from, special training for a job or a profession. Further, general education for the A.S. degree student should not be confused with liberal education for the baccalaureate student. General education should allow a student to gain a more integrated view of knowledge, a more realistic view of life and a more defined sense of community and social responsiblity. Because of the belief that knowledge leads to action, students should be actively engaged in learning. This point of view provides the student a foundation of lifelong learning in a changing world. Based on the above, the following student centered goals also present the goals of general education. They impact the student as an individual, a member of the family, a worker and a member of society.

After the completion of the A.S. degree program, the student should be able to demonstrate the following general education competencies:

1. Understanding of self
2. Understanding of one's place in the world
3. Understanding and appreciation of diverse cultures
4. Understanding of communication in society
5. Understanding of science as a driving force
6. Understanding of the dynamics of change
7. Understanding of the aesthetics of human experience
8. Understanding of the need for lifelong learning

## MINIMUM GENERAL EDUCATION COURSE REQUIREMENTS FOR ASSOCIATE IN SCIENCE DEGREE

As a minimum the A.S. degree must include nine semester hours of General Education courses (three semester hours in each of the following areas: Social Sciences, Natural Sciences and Humanities). Students should check any specific requirements in their major area of study. A transcript review may be requested to substitute equivalent courses for courses required by their program major.

Social Sciences (at least one course)

| AMST 211,212 | ICS 100 |
| :--- | :--- |
| ANTH 150,200, 210 | IS 105 |
| ASIA 100* | LAW 22 |
| BOT 105 | POLSC 110, 120,130,171, 270 |
| ECON 101, 120 | PSY 100, 170 |
| GEOC 102,151 | SOC 100, 218, 251,257 |
| FAMR 230 | SSCI 21, 120* |

(*Satisfies either the Social Science or Humanities requirement, but not both.)

| Natural Sciences (at least one course) |  |
| :--- | :--- |
| BIOL 20, 22, 130, 244 | MICRO 130 |
| BOT 101,130 | OCEAN 201 |
| CHEM 100, 101, 151, 161 | PHYS 100, 151 |
| FSHE 285 | SCI 21, 121, 122, 124 |
| GEOC 101 | ZOOL 100, 101, 141, 200 |

Humanities (at least one course)

| ART 101 | HIST 151, 152, 224, 241, 242 |
| :--- | :--- |
| AMST 201, 202 | 281, 282, 288 |
| DANCE 150 | HUM (all courses) |
| ASIA 100* | MUS 106,107,108 |
| DRAMA 101 | PHIL 100, 102,200, 201 |
| EALL 271-272 | REL 150, 151 |
| ENG 250-257 | SSCI 120* |

(*Satisfies either the Social Science or Humanities requirement, but not both.)

Minimum Communications and Mathematics and Logical Thinking Skills Required for Associate in Science Degree

As a minimum the A.S. degree must include at least three semester hours in mathematics and logical thinking skills and at least three semester hours in communications skills. Students should check specific program requirements in their major area of study. A transcript review may be requested to substitute equivalent courses for courses required by their program major.

The level and kind of communications and mathematics and logical thinking skills courses required of students are determined by the program awarding the A.S. degree as both admission standards and as exit competencies. The communications and mathematics and logical thinking skills courses (e.g. ENG 50 or higher; SP 51, 151, 251; BUS 55, 56; MATH 24 or higher; PHIL 110; and QM 252) are part of A.S. degree program requirements. The level and timing of the acquisition of these skills should take into consideration not only the skills students need to work in a chosen field, but also the prerequisites for those courses which are included in their programs and those of the general education course requirements.

## COMMUNICATION SKILLS REQUIRED BY PROGRAM MAJOR

Business Education

| Accounting | ENG 100 or 160 |
| :--- | :--- |
| Data Processing | ENG 100 or 160, SP 151 |
| Sales and Marketing | ENG 100 or 160 |
|  | SP 51 or SP 151 |
|  |  |
| Food Service and Hospitality |  |
| Food Service | ENG 100 or 160 |
|  | SP 151 or COMM 145 |
| Food Service Management | ENG 100 or 160, SP 151 |
| Hotel Operations | ENG 100 or 160 |
|  | SP 151 |

## Allied Health

Medical Assisting
ENG 100 or 160, COMM 145, or SP 151
Medical Laboratory Technician Occupational Therapy Assistant Physical Therapy Assistant

Radiologic Technology
Respiratory Care
ENG 100 or 160
ENG 100 or 160 , or SP 151
ENG 100 or 160 , COMM 145 or SP 151
ENG 100 or 160
ENG 100 or 160 , COMUN 145, or SP 151

## Nursing

Nursing
ENG 100 or ENG 160
(prerequisite college course)

## Emergency Medical Services

Mobile Intensive Care Technician ENG 100 or 160
Legal Assistant
Legal Assistant
ENG 100 or 160 , SP 151 or 25 , or COMUN 145

## Office Administration and Technology

OAT-Ceneral
ENG 51B, 51C, 51D, and 55 SP 51 or 151
OAT-Legal
ENG 51B, 51C, 51D, and 55
SP 51 or 151

MATHEMATICS AND LOGICAL THINKING SKILLS
REQUIRED BY PROGRAM MAJOR
Business Education

| Accounting | BUS 55 and 56 |
| :--- | :--- |
| Data Processing | PHIL. 110 |
| Sales and Marketing | BUS 55 and 56 |

Food Service and Hospitality Education

| Food Service | MATH 50 H (or higher) |
| :--- | :--- |
| Food Service Management | MATH 25 (or higher) |
| Hotel Operations | MATH 25 (or higher) |


| Allied Health |  |
| :---: | :---: |
| Medical Assisting | BUS 55, MATH 25 (or higher) |
| Medical Laboratory Technician | MATH 135 (or higher) |
| Occupational Therapy Assistant | BUS 55, MATH 24 (or higher), PHIL 110 or QM 252 |
| Physical Therapy Assistant | MATH 25 (or higher) |
| Radiologic Technology | MATH 100 (or higher) |
| Respiratory Care | MATH 25 (or higher) |
| Nursing |  |
| Nursing | MATH 25 (or higher) (prerequisite college course) |
| Emergency Medical Services |  |
| Mobile Intensive Care Technician | MATH 25 |
| Legal Assistant |  |
| Legal Assistant | MATH 24 (or higher), PHIL 110 or QM 252 |

## CERTIFICATE OF ACHIEVEMENT

A Certificate of Achievement is a credential awarded to students who successfully complete a program of vocational-technical courses leading to an occupational skill.

The requirements for a Certificate of Achievement are:

1. Minimum grade point average: 2.0 . Some programs may have additional scholarship requirements
2. General education: Students must meet proficiency requirements in communications and mathematics. Requirements may be met by an acceptable score on a proficiency examination or by successful completion of courses specified by the College or program in:

$$
\begin{array}{ll}
\text { English or Speech } & 3 \text { semester hours } \\
\text { Mathematics } & 3 \text { semester hours }
\end{array}
$$

3. Residency: Final 12 credits in major must be earned at Kapi'olani Community College. The residency requirement may be waived for cause at the option of the Dean of Instruction or Provost. The Residency Waiver Form must be completed and approved before the student leaves or transfers to another institution. The Dean or Provost may also approve use of credit by examination to meet residency requirements at their discretion.

## CERTIFICATE OF COMPLETION

A Certificate of Completion is a credential awarded to students who successfully complete certain occupational courses or course sequences specified by the College. Programs are designed primarily for students who need short-term training or job upgrading.

## Admission Information

## I ku ka makemake e hele mai, hele no me ka malo'elo'e. If the wish to come arises, walk firmly.

Kapioolani Community College is an open-door college that welcomes any person 18 years of age or older to join its educational programs. The following admission requirements and regulations will assist you in understanding the procedures for enrollment:

## ELIGIBILITY

Any person 18 years of age or older who wants to benefit from instruction at Kapi'olani Community College is eligible for admission. There are, however, special requirements for the following applicants:

1. Those applying for Health Programs. (Refer to section entitled "Special Requirements for Allied Health/Nursing/Emergency Medical Services Programs.")
2. Those applying for the Legal Assistant Program. (Refer to section entitled "Special Requirements for Legal Assistant Program.")
3. International Students. (Refer to section entitled "Admission Requirements for International Students.")

## GENERAL ADMISSIONS REQUIREMENTS

The University of Hawai'i Common Admission Application form and pertinent instructions are available at the Office of Admissions and Information Services or in the counseling offices of any high school in Hawai‘i.

1. File an application for admission with the Office of Admissions at Kapi'olani Community College.
2. File the residency information form included in the application. 3. Submit other information, forms and/or documents, as requested by the College.

## APPLICATION DEADLINES

A completed application form and all other requested forms and/or documents must be submitted to the Office of Admissions by July 1 for Fall semester, November 15 for the Spring semester, or April 15 for the Summer session. Individuals are advised to file their applications as early as possible. Applications will not be accepted when a program's enrollment quota has been reached. Programs that have earlier closing deadlines are the Legal Assistant and all Health Programs. (Refer to sections on special requirements for those programs.)

## ACCEPTANCE

After the required items have been submitted, an applicant is notified by mail of the admissions decision. The applicant is responsible to see that all of the previous requirements have been met, as the College does not send reminders. Nonresidents will be admitted on a space available basis.

All documents, transcripts and forms submitted become the property of the College. They will not be returned to the applicant.

## RESIDENCY REGULATIONS

Students other than statutory exempt individuals who do not qualify as bona fide residents of the State of Hawai'i, according to the University of Hawai'i rules and regulations in effect at the time they register, must pay nonresident tuition. An official determination of residency status will be made at the time of application. Applicants may be required to provide documentation to verify residency status. Once classified as a nonresident, a student continues to be so classified until presentation of satisfactory evidence to the residency officer that proves otherwise.

Some of the more pertinent University residency regulations follow. For additional information or interpretation, contact the residency officer in the Office of Admissions and Information Services, 'llima Building, Rm 106, Ph. 734-9559.

## DEFINITION OF HAWAI'I RESIDENCY

A student is deemed a resident of the State of Hawai'i for tuition purposes if the student ( 18 or older), or the student (under 18) and his/her parents or legal guardian have:

1. Demonstrated intent to permanently reside in Hawai'i (see below for indicia);
2. Been physically present in Hawai'l for the 12 consecutive months prior to the first day of instruction and subsequent to the demonstration of intent to make Hawai'i their legal residency; and,
3. Has not been claimed as a dependent for tax purposes by the student's parents or legal guardians who are not legal residents of Hawai'i.

To demonstrate the intent to make Hawai'i the place of legal residency, the following indicia apply:

1. Registering to vote in the State of Hawai'i.
2. Filing Hawai'i Resident State Personal Income Tax Return.

Other indicia, such as permanent employment or the leasing of a dwelling in Hawai'i may apply, but no single act is sufficient to establish residency in the State of Hawai'i.

Other legal factors involved in making a residency determination include:

1. The 12 months of continuous residence in Hawai'i shall begin on the date upon which the first overt action (see indicia above) is taken to make Hawai'i the permanent residence. While residence will be lost if it is interrupted during the 12 months immediately preceding the residence determination date, resident status derived from two or more successive sources may be tacked together to compute the 12-month period.
2. Residency in Hawai'i and residency in another place cannot be held simultaneously.
3. Presence in Hawai'i primarily to attend an institution of higher
learning does not create resident status.
4. The residency of unmarried students who are minors follows that of the parents or of the legal guardian. Marriage emancipates a minor.
5. The residency of a married person may follow that of the spouse.
6. Residency status, once acquired, will be lost by future voluntary action of the resident inconsistent with such status. However, Hawai'i residency will not be lost solely because of absence from the state while a member of the United States Armed Forces, while engaged in navigation or while a student at any institution of learning.

## STATUTORY EXEMPTIONS: NONRESIDENTS MAY BEALLOWED TO PAY RESIDENT TUITION IF THEY QUALIFY AS ONE OF THE FOLLOWING:

A. United States military personnel and their authorized dependents during the period such personnel are stationed in Hawai'i on active duty.
B. Persons who are legal residents of a district, commonwealth, territory or insular jurisdiction, state or nation which provides no public institution of higher learning.
C. Employees of the University of Hawai'i and their spouses and legal dependents.

## Misrepresentation

A student or prospective student who intentionally or willfully misrepresents any fact on any form or document intended for use in determination of resident status for tuition purposes will be subject to the regular disciplinary measures of the University of Hawai'i.

## Appeal Process

Residency decisions may be appealed by contacting the Coordinator of Enrollment Services in the Admissions and Information Services Office, 'Ilima Rm 106, for information on how to initiate an appeal before students register for classes. Appeals are heard by the Committee on Resident Status only after the resident tuition is paid.

## HEALTH REQUIREMENTS FOR REGISTRATION

In compliance with public health regulations, all students prior to enrollment must show evidence that they are free of active tuberculosis.

All nonresident international students must also demonstrate proof of enrollment in a health and accident insurance plan before they may be allowed to register. The intent of this requirement is to protect international students against the high cost of unanticipated health care expenses resulting from accidents or illness.

Kapi'olani Community College complies with all applicable requirements of other state health agencies and councils as may be required by law or by rules and regulations.

## SPECIAL ADMISSION REQUIREMENTS AND PROCEDURES FOR ALLIED HEALTH/NURSING/ EMERGENCY MEDICAL SERVICES PROGRAMS

Priority in filling the health programs is given to Hawai'i residents who consistently fill program quotas. Statutory exemption from the non-resident tuition is not to be confused with
resident classification for admission purposes. Therefore, nonresidents will not be considered for health programs until all bonafide residents of Hawaiłi have been considered. Enrollment is limited in each of the programs.

An application for Selective Admission Program available at the Office of Registration and Records must be submitted for each semester's application. Notification of acceptance is sent by mail. See information on "All Admitted Applicants" for information on health examinations and liability insurance.

Admission to the Adult Residential Care Home, Dental Assisting, Medical Assisting, Nurses' Aide Training, Personal Care Attendant, Phlebotomy and Registered Nursing programs is open each semester. Admission to the Emergency Medical Technician, Medical Laboratory Technician, Occupational Therapy Assistant, Physical Therapist Assistant, Practical Nursing, Radiologic Technology, and Respiratory Care programs is open each Fall semester. Admission to the Mobile Intensive Care Technician program occurs each Spring semester.

Further information regarding admission for specific admission and application requirements for Allied Health./Nursing/Emergency Medical Services may be obtained from the Office of Admissions and Information Services.

## Application Period:

December 1 to April 1 for Fall admission and June 1 to December 1 for Spring admission. (Registered Nursing Program: December 1 to February 1 for Fall and June 1 to September 1 for Spring.) During this period, testing, orientation, submission of required certification (high school transcript, college transcripts, graduation certificates) and requested residency documentation must be accomplished. Applicants should make every effort to apply early in the application period and to meet the testing and orientation dates assigned. It is the applicant's responsibility to have transcripts sent directly to the Office of Registration and Records from each high school and college attended. Hand carried or FAX transcripts will not be accepted.

Applicants who apply after the deadline or who complete other requirements (e.g., submission of transcripts, testing, orientation and requested residency documentation) after the deadline, will be considered for acceptance on a space available basis only. All students must submit the Selective Admissions Form as well.

## Acceptance Review

All applicants whose required materials are received by the deadline and who meet requirements will be considered for admission to specific programs requested until quota is reached. Students on academic probation at the College will not be considered for selection to these programs.

## NURSES' AIDE PROGRAM

The Nurses' Aide program is offered two times (two eight-week sessions) each semester. Applicants are selected on a first-qualified, first-selected basis by placement test scores and attendance at an orientation session. Notification of acceptance is sent by mail. See information on All Admitted Applicants for information on health examinations and liability insurance. One session may be taught at the Leeward Community College Education Center at the Waianae Mall. Acceptance for the session is on a first qualified, first accepted basis, including submission of a Waianae Healih Academy application. Phone 696-3155 for more information about this session.

## DENTAL ASSISTING <br> MEDICAL ASSISTING <br> MEDICAL LAB TECHNICIAN <br> OCCUPATIONAL THERAPY ASSISTANT PHLEBOTOMY <br> RADIOLOGIC TECHNOLOGY

Acceptance into Dental Assisting, Medical Assisting, Medical Lab Technician, Occupational Therapy Assistant, Phlebotomy and Radiologic Technology programs is on a first-qualified, first-accepted basis by placement test scores and attendance at an orientation session. High school graduation or GED is required.

## PRACTICAL NURSING <br> RESPIRATORY CARE TECHNICIAN

Admission to the Practical Nursing and Respiratory Care Technician programs are based on total qualifying scores in rank order, highest to lowest. Total qualifying score is based on the following criteria:

1. High school graduation or GED.
2. Math and reading scores or credit in specific course.
3. College GPA if more than 12 credits have been taken, or high school GPA if less than 12 credits of college work. Students on academic probation at KCC will not be considered for selection. OFFICIAL TRANSCRIPTS MUST BE RECEIVED BY APRIL 30. (FAX not accepted.)
4. Prior completion of college English, mathematics and science courses required or desired by the specific program. Courses must have been taken within the last 5 years with grades of "C" or higher.
5. Prior related work experience for Respiratory Care Technician (within last five years). Applicants desiring to have prior work experience evaluated for possible inclusion in the evaluation process must submit a verification of the nature and length of experience from employer.

## PHYSICAL THERAPIST ASSISTANT

Admission to the Physical Therapist Assistant (PTA) program (first qualified, first accepted) is based on satisfactory completion of all first year required courses, college grade point average, attendance at a program information session and work experience. If there are more qualified applicants than available positions, interviews will be scheduled.

Official transcripts must be received by April 30. (FAX not accepted.)

## RESPIRATORY THERAPIST

Admission to the Respiratory Therapist program is based on satisfactory completion of an accredited Respiratory Care Technician program and total qualifying scores based on the following criteria:

1. GPA in RESP didactic courses.
2. NBRC/CRTT scores.
3. Performance on a comprehensive Respiratory Care Technician examination.

## REGISTERED NURSING

Admission to the Registered Nursing (ADN) program is based on satisfactory completion of specified prerequisite support courses, high school graduation or GED certification, cumulative grade point average of 2.0 or higher for all courses taken at Kapi'olani Community College and total qualifying scores based on the following criteria:

1. Grade point average of 2.5 for pre-requisite and co-requisite support courses.
2. National League of Nursing Pre-Admission Examination score of 95 or higher within the past three years.
3. Co-requisite support courses completed before the application deadline.
Special application deadlines for the Regristered Nursing program are: Fall semester entry: December 1 - February 1; Spring semester entry: June 1 - September 1.

## EMERGENCY MEDICAL TECHNICIAN MOBILE INTENSIVE CARE TECHNICIAN

Admission to the Emergency Medical Technician Program and Mobile Intensive CareTechnician Program is based on total qualifying scores in rank order - highest to lowest - until admission quota is reached. Total qualifying scores for the Emergency Medical Technician Program are based on the following criteria:

1. EMS Supplemental Application Form.
2. Math and reading placement test scores.
3. High school graduation or GED.
4. College GPA if 12 or more credits taken.
5. Prior completion of College Anatomy and Physiology, English, and Math courses. College courses must be taken within the last 5 years with grades of " C " or above.
6. Current First Aid and CPR certificates.
7. Letters of reference.
8. Prior work experience in the health field (within the last 5 years).
9. Interview scores. Interviews will be scheduled for applicants with highest total qualifying scores until admission quota Is reached.
The deadline for applications to the Mobile Intensive Care Technician Program is October 1. Acceptance review period is November 1 -November 30. The total qualifying scores for the Mobile Intensive Care Technician Program are based on the following criteria:
10. EMS Supplemental Application Form.
11. Math, reading, and EMT knowledge exam scores.
12. High school graduation or GED.
13. College GPA if 12 or more credits taken.
14. Prior completion of College Anatomy \& Physiology, English, and Math courses. College courses must be taken within the last five years with grades of "C" or above.
15. Current BCLS or ACLS provider or BCLS instructor cards.
16. Letters of reference.
17. Grade for EMT-A course.
18. Prior work experience as an EMT-A (within the last 5 years). 10. Interview scores.

Acceptance Period: Letters of acceptance or non-acceptance to the desired program will be sent by late May or early June.

Admitted Health Program Applicants: All those admitted must:

- submit a satisfactory health clearance form and TB clearance to the departmental office by departmental deadline.
- purchase and show evidence of professional liability insur-
ance to the program director/department chair prior to registration.
All documents and transcripts submitted become the property of the College. They will not be returned to the applicant.


## SPECIAL REQUIREMENTS AND PROCEDURES FOR LEGAL ASSISTANT PROGRAM

Those persons interested in applying to the Legal Assistant program should contact the Office of Admissions and Information Services or the Legal Assistant Office for information.

To be considered for admission to the program, the applicant must complete the following requirements:

1. File an application for admission-The University of Hawai'i Common Application Form and a Supplemental Application Form for consideration for admission to the Legal Assistant Program for Fall must be completed and returned by May I to the Office of Admissions and Information Services. Degree candidates are admitted at the beginning of the fall semester of each academic year.
2. File the residency information form included in the application and documentation as required.
3. Submit high school and college transcripts-The applicant should request his or her school and college to forward directly to the Office of Admissions and information Services a copy of official transcripts of high school and any college course work attempted by May 8. TRANSCRIPTS ISSUED TO THE APPLICANTS OR FAXED CANNOT BE ACCEPTED.
4. Complete the testing requirement by attending the test date assigned by the Office of Admissions and Information Services.
5. Currently enrolled students who wish to be Legal Assisting majors should file a change of major form at the Office of Admissions and Information Services, and follow steps 3 and 4 above. Additionally, the Supplemental Application Form described in step 1 should be completed and returned to Admissions and Information Services by April 1. All deadlines apply.
Since the admissions process involves a screening test and a Supplemental Application Form, it is recommended that the applicant begin the admissions process at least by February 15 in order to complete all the requirements by the deadline date of April 8. Applicants will be notified by mail of their acceptance by June 15.

The applicant is responsible to see that all of the above requirements have been met, as the College does not send reminders.

All documents and transcripts submitted become the property of the College. They will not be retumed to the applicant.

## ADMISSION REQUIREMENTS

FOR INTERNATIONAL STUDENTS
Kapi'olani Community College is authorized under federal law to enroll non-immigrant alien students. Compliance is necessary with all regulations of the Immigration and Naturalization Service pertaining to the individual's status, as well as with all regulations of Kapi'olani Community College. Kapi'olani Community College complies with all applicable requirements of other state health agencies and councils as may be required by law or by rules and regulations.

General Admissions Requirements, as well as the following special requirements, must be met by nonimmigrant applicants:

1. Submit a Supplementary Information Form (admissions) for Foreign Applicants.
2. Have official test results on the Test of English as a Foreign Language (TOEFL) sent directly to Kapi'olani Community College. Applications and/or requests for scores on this test can be made by
writing to TOEFL Registration Office, P.O. Box 6152, Princeton, New Jersey, 08541-6152 or by contacting the American consulate in your country. Hand-carried test results will not be accepted by the Office of Admissions and Information Services.
3. Submit high school and college transcripts. Evidence of academic achievement equivalent to an American high school education is necessary. The foreign applicant must request their high school and college to forward directly to the Office of Admissions and Information Services a complete and certified English translation of their secondary school/college record. Transcripts that are issued to the applicant will not be accepted.
4. Submit an Affidavit of Financial Support from a U.S. sponsor guaranteeing that no financial assistance will be needed and no employment will be required. Living expenses: housing, food, etc., are approximately $\$ 15,400$ per year.
5. Take a health examination and a chest x-ray within the sixmonth period just prior to application. The health form must be certified by a medical official and a United States official verifying no active tuberculosis. (Evidence of good health by a doctor and a United States official is at the student's expense.) ALL foreign students must demonstrate proof of enrollment in a health and accident insurance plan before they will be allowed to register. The intent of this requirement is to protect foreign students against the high cost of unanticipated health care expenses resulting from accidents or illness.

All of the above must be received by the Office of Admissions and Information Services by the following dates:

Fall Semester-July 1
Spring Semester-November 1
Students are advised, however, to send all required materials as early as possible.

Applicants will be notified by mail of their acceptance or nonacceptance and will be sent an INS-20 form.

The applicant is responsible to see that all of the previous requirements have been met, as the College does not send reminders.

Foreign Students must also enroll for a minimum of 15 semester hours of study each semester, and satisfactory progress must be made.

All documents and transcripts submitted become the property of the College. They will not be returned to the applicant.

The Foreign Student Advisor is available to counsel and advise accepted sludents.

## EARLY ADMISSIONS PROGRAM

High school seniors may enroll at Kapi'olani Community College and earn college credits while in high school. Enrollment is limited on a space available basis to one or two courses for which prerequisites have been met. Recommendation to enroll at the College from the high school counselor or principal is required in order to be an early admission student. Generally students accepted into the program have a GPA that indicates a high possibility of college level success and have exhausted present high school electives in their field of interest. An application form including a copy of student's high school transcript must be completed and filed at the Office of Admissions and Information Services for each semester of enrollment attesting to these requirements.

## Financial Information

## Не mai'a ua pa'a i ke ko'o

 A banana tree well supported by props.Students also sometimes need support to assist them in budgeting for their education. The tuition, fees and financial assistance programs at Kapi'olani Community College are clearly detailed below:

## TUITION AND FEES

## TUITION AND FEE SCHEDULE (PER SEMESTER) TUITION AND FEES SUBJECT TO CHANGE.

| Resident | 1-11 units | 12units \& above |
| :---: | :---: | :---: |
| Tuition | \$20.00/unit | \$230.00 |
| Student Activity |  |  |
| Fee | 50\$-\$5.00* | \$5.00 |
| Publication Fee | \$5.00 | \$5.00 |
| Total | \$25.50-\$230 | \$240.00 |
| Nonresident | 1-11 units | 12units \& above |
| Tuition | \$118.00 unit | \$1400.00 |
| Student Activity |  |  |
| Fee | 50¢-\$5.00 | \$5.00 |
| Publication Fee | \$5.00 | \$5.00 |
| Total | \$123.50-\$1308 | \$1410.00 |

*Part-time students pay $50 థ$ a credit up to $\$ 5.00$ for Student Activity Fee.

## Tuition Payments

For registration to be official, all fees must be paid in full at the time of registration. University of Hawai'i policy forbids deferred payment of tuition. Tuition and fees are subject to change.

## SPECIAL FEES

## Late Registration Fee

A $\$ 2.00$ fee for late registration is charged when a student registers after the announced days of registration.

## Course-Change Fee

For students substituting, adding and/or deleting courses(s)/ credit(s): A fee of $\$ 1.00$ shall be paid each time a student completes a Change of Registration form. This fee does not apply when a student withdraws from allof his/her courses (complete withdrawal from college).

## Graduation Fee

A $\$ 5.00$ fee is payable at the time of submitting an application for graduation. The fee is not refundable but is applicable to the next application is graduation is denied.

## Rental of Cap and Gown

Caps and Gowns may be purchased at the bookstore two weeks prior to graduation.

## Transcript Fee

No fee is charged for a request of transcript to be sent to another college within the University of Hawai'i system. A $\$ 1.00$ fee is charged for a transcript that is to be sent outside of the University of Hawai'i system.

## Fees for Dishonored Checks

A $\$ 7.50$ service charge will be assessed for each check made out to Kapi'olani Community College or any department of the college that is returned for any cause.

## Fees for Noncredit Courses

These fees vary according to the courses offered and will be announced when courses are offered.

## Waiver and Refund Policy on Penalty Charges

Penalty charges such as late registration fee and course change fee will not be assessed if it is determined that the student is not responsible for the action causing the charge to be levied. Appeals for waivers of such fees must be made to the Dean of Student Services. Additionally, students or parents who believe that individual circumstances warrant exceptions to college policies concerning tuition and fees may present their appeal to the Dean of Student Services.

Financial Obligations to the University: Students who have not satisfactorily adjusted their financial obligations (tuition and fees, traffic violations, library fines, locker fees, laboratory breakage charges, transcript fees, loans past due, rental payments, etc.) may be denied grades, transcripts, diplomas and registration.

A copy of the "Rules and Regulations Governing Delinquent Financial Obligations Owed the University of Hawai'i," promulgated by the Board of Regents, is on file in the Office of Student Services.

## REFUND POLICIES

## Tuition and Special Course Fees Refund Policy- <br> Regular Academic Semester

In the event a student initiates a complete withdrawal from the College before the fifth week of instruction, or changes from fulltime to part-time status, or completes a change from non-resident to resident fuition rate if applicable, tuition and special course fees
are refunded as indicated below:

1. $100 \%$ refund for complete withdrawal only if made on or before the last day of regular registration as announced in the registration information booklet.
2. $80 \%$ refund if complete withdrawal or change in status or a change from one tuition rate to another tuition rate is made within the first two weeks of instruction.
3. $40 \%$ refund if complete withdrawal or change in status of a change from one tuition to another tuition rate is made within the third and fourth weeks of insiruction.
4. No refund if complele withdrawal or change in status or a change from one luition rate to another tuition rate is made after the fourth week of instruction.
When changes by the College to the published schedule of classes precipitate a complete withdrawal, or a change from fulltime to part-time status, or a change from non-resident to resident tuition rate, and the changes to the published schedule have occurred after the student registered, tuition and special course fees are refunded as indicated below upon approval of the college's Dean of Instruction or Dean of Student Services:
5. $100 \%$ refund if complete withdrawal is necessary and if application for refund is made within two weeks of the date of change(s) to the published schedule.
6. The difference between the amount assessed at registration at the start of the semester and the amount assessed due to change in status or tuition rate if such a change is necessary and if application for refund is made within two weeks of the date of the change(s) to the published schedule.
After the required approvals have been secured by the student, the application for refund must be submitted to the College's Business Office for payment. In no case shall payment of a refund be made when a student fails to make application for a refund within two weeks of date of withdrawal, change in status, or change in tuition rate.

Student Activity Fee and Publication Fee Refund Policy:

1. $100 \%$ refund of student activity fee if complete withdrawal is made within the first two weeks of instruction.
2. No refund of the student activity fee if complete withdrawal is made after the second week of instruction.
3. No refund of the student activity fee in cases of voluntary change from full-time to part-time status after the second week of instruction.

Tuition and Special Course Fees Refund Policy-Modular, Summer Session and College of Continuing Education Courses

1. For credit courses:

- $100 \%$ refund for complete withdrawal if made on or before the last working day before the first day of instruction.
- $80 \%$ or $40 \%$ refund in accordance with the schedule below, which is based on length of term of the course and the instructional day in which withdrawal is made:

| Term | $\mathbf{8 0 \%}$ Refund | $\mathbf{4 0 \%}$ Refund |
| :---: | :--- | :--- |
| 1 week | No refund | No refund |
| 2 week | 1st day | 2nd day |
| 3 week | 1st-2nd day | 3rd day |
| 4 week | 1st-2nd day | 3rd-4th day |


| week | 1st-3rd day | 4th-5th day |
| :---: | :---: | :---: |
| week | 1 st -3rd day | 4th-6th day |
| week | 1st-4th day | 5th-7th day |
| week | 1st-4th day | 5th-8th day |
| week | $1 \mathrm{st}-5$ th day | 6th-9th day |
| week | 1st-5th day | 6th-10th day |
| week | 1st-6th day | 7th-11 th day |
| week | 1st-6th day | 7th-12th day |
| week | $1 \mathrm{st}-7$ th day | 8th-13th day |
| week | $1 \mathrm{st}-7$ th day | 8th-14th day |
| week | 1 st -8th day | 9th-15th day |

- No refund if withdrawal is made after the day indicated in the $40 \%$ refund column above.

2. For noncredit courses or workshops:

- One to five weeks in length $-100 \%$ refund for complete withdrawal if made on or before the last working day before the first day of class meeting; thereafter, no refund.
- Six weeks or longer in length - $100 \%$ refund for complete withdrawal if made on or before the sixth working day after classes begin; thereafter, no refund.


## FINANCIAL AID PROGRAMS

Classified students may qualify for financial assistance if it can be calculated that college costs are greater than the amount of money they could reasonably contribute to their education. Students must maintain satisfactory academic progress to continue to be eligible for financial aid programs. The Financial Aid staff on campus will develop a "package" of financial aid for such students consisting of one or more of the types of assistance listed below.

Financial aid applicants must be citizens, nationals or permanent residents of the U.S.A., Northern Marianas, Trust Territories, Marshall Islands, or The Republic of Belau (except for Pacific-Asian Scholarships).

Students who wish to be considered for financial assistance must submit the Free Application for Federal Student Aid (FAFSA) to Colloge Scholarship Service. For further information call or write to the Financial Aid Office of the College, 734-9536.

## 1. Scholarships/Grants

a. Hawai'i Student Incentive Grant (H.S.I.G.). Covers the cost of tuition for resident students. Recipients must also be eligible for a Pell Grant. At least half-time enrollment ( 6 or more credits) isrequired, with priority given to full-time students (12 or more credits).
b. Tuition Waivers. Covers the cost of tuition. Recipients are selected by the college on the basis of need, merit or service. At least half-time enrollment is required. Priority is given to full-time students and Hawai'i residents.
c. Pell Grant. Federal grants for low-income students and which require no repayment.
d. Supplemental Educational Opportunity Grant (S.E.O.G.). Provides supplemental financial assistance to low income students who qualify for Pell Grants and requires no repayment.
e. Pacific-Asian Scholarship. Covers the cost of tuition for fulltime continuing students from Asian and Pacific areas with demonstrated academic excellence. Priority given to for-
eign students from Pacific and Asian jurisdictions. (FAF is not required.)
f. Hemenway Scholarship. Private scholarship funds available to undergraduateHawai'i residents with character and qualities indicative of good citizenship.
g. Ruth E. Black Scholarship. Private scholarship funds with awarding priority to Hawai'i residents who are sons and daughters of engineers, contractors, and construction workers or who are pursuing construction-related fields of study. h. Some vocational programs have scholarships. Check with the program office.

## 2. Loans

a. Carl Perkins Loan Program (formerly National Direct Student Loan). A long-term loan program.

- At least half-time enrollment ( 6 or more credits) required.
- No interest while attending school, 5 percent interest during repayment period, $\$ 90$ minimum quarterly repayment.
- Cancellation privileges for those entering certain fields.
- Maximum loan: $\$ 4,500$ for the first two years of college.
b. State Higher Education Loan (S.H.E.L.). A long-term loan program for full-time resident students.
- Full-time student (12 or more credits).
- Long-term loan, no interest while attending school, 3 per-cent interest during repayment period, $\$ 45 \mathrm{mini}$ mum quarterly repayment.
- Maximum loan: $\$ 4,500$ for the first two years of college.
c. Stafford Loans (formerly Guaranteed Student Loans). Loans from private lenders, such as banks and credit unions.
- At least half-time student ( 6 or more credits).
- Loan obtained directly from private lenders at $8 \%$ interest. Requires a special application which is available at the Financial Aid Office.
- Long-term loan, no interest while attending school, $8 \%$ interest during repayment period, $\$ 50$ monthly repayment minimum.
- Maximum loan: $\$ 2,625$ per year.
d. Parent's Loan for Undergraduate students (PLUS Loans). Long-term loans from private lenders, such as banks and credit unions.
- For parents of dependent undergraduates.
- Interest accrues during periods of enrollment, variable rate not to exceed $12 \%$.
e. Supplemental Loans for Students (SLS Loans). Long-term loans from private lenders such as banks and credit unions.
- For students not eligible for a Stafford Loan.
- Interest accrues during periods of enrollment, variable rate not to exceed $12 \%$.
f. Short-Term Emergency Loan.
- At least half-time student (6 or more credits).
- No interest, must be repaid within 60 days.
- Financially responsible cosigner necessary.
- Maximum loan: $\$ 100$.

3. Employment
a. College Work Study Program. Provides part-time employment on campus.

- At least half-time student (6 or more credits).
- On-campus employment during academic year and vacation periods.
- Student may earn only up to ceiling amount as established by the Financial Aid Office.
b. Non-College Work Study Employment.
- On campus employment during academic year and vacation periods.
- Priority given to students with demonstrated financial need.


## SELECTIVE SERVICE REGISTRATION AND FEDERAL STUDENT AID

Military Selective Service Act (P.L. 97-252) requires that beginning July 1, 1983, any student who is required to register with the Selective Service System and fails to do shall be ineligible to receive Federal Title IV studentfinancial aid including: Pell Grants, Supplemental Educational Opportunity Grants, College Work Study, Carl Perkins Loan Program loans, Stafford Loans and State Student incentive Grants.

This requirement affects all male students who are at least 18 years of age, who wereborn after December 31, 1959, and who are not currently on active duty with the armed forces. Members of the Reserves and National Guard are not considered on active duty and must be registered.

The group of affected male students include citizens and noncitizens eligible to receive Federal financial aid except permanent residents of the Federated States of Micronesia, the Marshall Islands or the Republic of Belau. For further information, contact the Financial Aid Office at 734-9536.

## SENIOR CITIZEN <br> TUITION EXEMPTION PROGRAM

Senior cilizens may attend any institution of the University of Hawai'i system on a luition-exempt basis if they meet these conditions:

1. Sixty years of age or older at time of registration for the course.
2. Resident of the State of Hawai'i as prescribed by the University's definition of residency.
3. Meet the prerequisites for admission and for enrollment in a course.
4. Space is available in the course,

Senior citizens may also take the course as an auditor. Admissions requirements are the same as for other applicants. The Senior Citizen Tuition Exemption program does not apply during the Summer Session.

All financial aid programs are subject to change due to legislative action. For addcitional information, contact the Financial Aid Office, 734-9536.

# The Centers of Learning 

## Ka waihona o ka náauao The Repository of Learning

For the Hawaiians, the repositories of learning were those men and women who were blessed with wisdom. Kapi'olani Community College offers its own style of learning centers - modern, technically innovative facilities that provide students with resource materials, tutorial assistance, audio-visual aids and microcompute:s. Students are encouraged to take advantage of the following facilities:

## COMPUTING CENTER

To familiarize and expose the general student population to the use of computers and software, the College makes available Macintosh and IBM PC microcomputers as well as PLATO terminals. Qualified personnel staff the Computing Center located in the Iliahi Building and the satellite center in the Interim Faciliti es, lower campus.

## EDUCATIONAL MEDIA CENTER

The Educational Media Center provides campus-wide access to instructional technology. Through consultations, workshops and support activities, the EMC encourages faculty and slaff to develop innovative uses for new and emerging technologies that facilitate learning. The Center is located in the Naio Building and provides assistance for television production, distance learning, graphics and reprography, tape reproductions, computer software development, electronic maintenance and audio visual resources. The staff of the EMC welcomes any questions concerning services, as effectiveness of the operation is dependent upon instructional needs of faculty, staff and students.

## LEARNING ASSISTANCE CENTERS

To encourage student success, the College offers supplementary instruction beyond the classroom and laboratory. Because of the diverse abilities and schedules of its student body, the College has recognized a need to provide learning enrichment centers where students can be more proactive about their learning. There are currently three learning centers, each offering appropriate services to different content areas at the College.

The Learning Assistance Center - Located in 'Iliahi 228, the LAC is the largest of all three Centers. The Center offers supplementary assistance to classroom instruction in reading, writing and mathematics. Tutors are available to proofread papers as well as to reinforce problem-solving skills in math and business education courses. In responding to the wide range of student needs, the Center also provides aural-visual aids for independent and selfpaced learning in several fields of study.

Health and Natural Science Learning Assistance Center Students at the HNS-LAC receive instructional, supplemental and remedial help for natural science courses and the health programs. Located in Koki'o 202, the HNS-LAC provides capable tutors for
assistance in most science and health courses. A laserdisc computer system with software for biology and chemistry also supports instruction outside the classroom.

Business Education Learning Assistance Center - The BE-LAC, which is located in the interim facilities (Building J-3), provides typewriters and machine transcribers especially for students taking Office Administration and Technology courses. In addition, audio tapes are available to supplement classroom instruction.

## LIBRARY

The library is located in the Lama Building. Library materials include books, periodicals, reference materials, video tapes and general and special collections. Services include reserve reading, reference assistance, group study rooms, photocopiers, AN alcove and continuous CNN newscasts. The library's services and materials are available to students, faculty and off-campus borrowers. Students and faculty also have borrowing privileges at other libraries in the UH system. The library's CARL online catalog provides access to the UH-Mänoa and UH-Hilo libraries and to many other resources online.


Photo by Mcriso Teraoka

# Academic Regulations 

## Pa'a 'ia iho ika hoe uli i'ole eik $k \bar{i}$ ike ko'a Hold the steering paddle steady to keep from striking the rock.

Rules were an intricate part of ancient Hawaiian life so as to preserve balance. Knowing the academic regulations of Kapi'olani Community College will help you stay on a steady, speedy course to the completion of your educational goals.

## STUDENT CLASSIFICATION

Students are classified as follows:
Classified - Students enrolled in an organized curriculum leading to a degree or certificate.
Unclassified - Students not enrolled in an organized curriculum leading to a degree or certificate.
Full-time - Students enrolled for 12 or more semester hours.
Part-time - Students enrolled for 11 or fewer semester hours.

For registration purposes, students are classified as follows:
First Time Student - A student attending a post-secondary institution (beyond high school) for the first time.
Continuing Student - A student who has registered for credit at Kapioolani Community College during the previous semester (excluding summer session) and has not withdrawn completely.
Returning Student - A student who was last enrolled at Kapiolani Community College and is returning to the College after an absence of one or more semesters.
Transfer Student - A student who was last enrolled in another academic institution of post-secondary nature with acceptable credits.

## COURSE REGISTRATION, WITHDRAWALS AND OTHER CHANGES

## Registration

Registration dates are listed in the College Calendar and Schedule of Classes. Before each semester begins, the College publishes a class schedule with important registration instructions which lists courses, class hours, locations and instructors.

## Orientation, Placement Tests and Academic Advising

All new students with no previous college-level work must attend an orientation, placement testing and academic advising session. Students who are returning to the college or transferring from another college are strongly encouraged to attend these specially scheduled sessions. Orientation sessions provide students with an introduction to the college. Specific information concerning registration procedures and academic counseling is provided by counselors and faculty advisors.

Kapi'olani has an Early Registration program for new students which allows for joint orientation, advising and registration. Session dates for this program are assigned on a "first to be acceptedfirst to register" basis.

Placement test sessions are scheduled throughout the year. The placement tests measure Math and English skills and are required for enrollment in Math and English courses. They are also required for courses in Science, Speech, Journalism and Reading.

Students who have taken a foreign language before entering the College, and who wish to continue in that language, are required to take a language placement test. The schedule for these lests is printed in the current schedule of courses. Individual prerequisites to specific courses are found in the Descriplion of Courses section.

## Unit Load Limitations

Nineteen semester hours is the maximum that may be taken by a student. A sludent wishing to enroll in additional credits must obtain permission from the Dean of Student Services.

A foreign student holding a F-1 visa is required to carry at least 15 semester hours each semester and complete his or her program of study according to the period specified on the 1-20 form.

## Auditing Courses

A student may audit classes upon securing the approval of the instructor or department chair on the registration or change of registration form.

An auditor attends classes as a listener. The auditor may take part in discussions or examinations but receives no credit. Auditors may change to credit status after registration with the approval of the instructor if all course requirements have been met. Students taking the class on creditstatus may also change to audit status. Auditors will receive a grade of "AU" for the course. All changes must be submitted to the Office of Registration and Records within the erase period. (Refer to College Calendar.)

Regular tuition and fees are paid by a student who audits a class.

## Concurrent Registration

Students at one campus within the University of Hawai'i System may register concurrently at another campus providing the course they wish to take is required for their program and is not available at their home campus. Such students must also be enrolled at the home campus for at least one-half the courses they are taking that semester. Students who are academically suspended or dismissed at the second campus are not eligible to enroll concurrently.

Students mustobtain an Application for Concurrent Registration Form (signed by their advisor) from their home campus. At Kapi'olani Community College, this form is available at the Student Services Center. Students must file this form and an application for admission at the campus they wish to attend. A new application for concurrent registration must be submitted each semester.

Enrollment will be permitted only if there is space available in the course(s). If courses have established prerequisites, these must be met. Information on tuition and fees can be oblained from the advisors.

Change of Registration: Adds and Drops
Adding or dropping a course is official only after the student has submitted a Change of Registration Form and has paid the required fee to the Business Office. A $\$ 1.00$ fee is charged each time a student adds or drops classes.

Courses may be added only during the change of registration period stated in the College Calendar or prior to the first class session for modular classes that begin during the semester.

Official course withdrawals during the first three weeks of semester will not be noted on the student's record. Courses may be dropped from the fourth to the ninth week of instruction with the consent of the instructor. Modular courses may be dropped up to one week after the mid-point of the course. These withdrawals will be indicated with a "W" in the student's record. After the ninth week, no withdrawals are permitted except for unusual or extenuating circumstances beyond the student's control. These withdrawals require the consent of the Dean of Student Services. Veteran students must also notify the Veteran's certification clerk of their withdrawal from any courses.

Students who never attend or cease to attend classes without officially withdrawing should be aware that a grade of " $F$ " must be submitted by the instructor. Students should also be aware that some colleges do not look with favor on records with excessive withdrawals. Similar attitudes occur among employers and scholarship grantors.

## Complete Withdrawal from College

Students who wish to withdraw from the College completely shall submit the Complete Withdrawal Form to the Office of Records by the deadline date set forth in the College Calendar. Students withdrawing completely by the Last Day of Erase Period deadline will not have their course registrations noted on their records. Students withdrawing between the fourth and ninth week of instruction and thereafter will have a "W" for each course noted on their records. After the ninth week, withdrawals are not permitted except for unusual or extenuating circumstances beyond the control of the student. These withdrawals require the approval of the Dean of Student Services.

Students who withdraw and wish to enroll in a subsequent semester must reapply by the specified admissions deadline.

## Attendance Regulations

Regular attendance at class and laboratory sessions is expected for all courses in which the student enrolls. Course - specific attendance policies will be found in the syllabus. Unavoidable absence should be explained to the instructor concerned.

Students on the official enrollment list who never attend class from the beginning of the semester and who do not initiate an official change of registration to drop the course may be graded with an "F." (See also Disappearer Policy.)

## Changes of Program of Study

Students wishing to change their major to any program other than a Health Education or Legal Assistant program may do so by submitting a completed Change of Major form to the Office of Registration and Records. The form is available at the Counseling Office or Office of Registration and Records and requires the approval signature of an academic advisor.

Students should consult the Admissions Information section for procedures for applying to the Health Education and Legal Assistant programs.

When changing majors, students must meet all requirements for the new major as stated in the catalog at the time the major is changed.

## DISAPPEARER POLICY

Students who have ceased to attend class and do not officially withdraw from the class are considered "disappearers." Students who have stopped attending class and do not officially drop the class by the deadline date receive the grade of "F." A student who has a justifiable reason for temporarily not attending classes must notify the instructor. A student who wishes to withdraw from a class must do so before the deadline date. (See "Change of Registration: Adds and Drops" and "Complete Withdrawal from College.")

## CREDITS, GRADES AND EXAMINATIONS

## Scholastic Standards

To be considered in good standing and to be eligible for graduation, a student must have a cumulative grade point average of not less than 2.0 (C).

## Scholastic Honors

Students make the Dean's List when they earn a 3.5 or better grade point average (based on letter grades) with 15 or more credits accumulated over Fall and/or Spring and/or Summer semester(s). This list is published once a year at the end of summer. (Remedial courses ENG 9V, 10V; ESL 1, 2, 3, 4; and MATH 1 are excluded.)

## Credits

A credit (also called a semester hour or credit hour) is given to a student for satisfactory work accomplished during one hour per week of classroom lecture instruction. For a combination Lecture/ Lab class, a credit is given for two hours per week of instruction. Credits vary for laboratory or clinical field work required in addition to the basic classroom instruction. Such work may carry credit (usually three or four hours in laboratory or field work for 1 credit) or it may carry no additional credit. The normal division of time for classroom instruction and preparation is two hours of preparatory work for one hour in the classroom. Thus, a three credit course signifies that the class usually meets three hours a week and that the student is expected to spend six hours in preparation of assignments.

## Credit/No Credit Option

A student who is not on a cademic probation may choose to take courses on a credit/no-credit basis, provided that the course is not part of the general education and major requirements. Some courses in the general education and major requirements, however, have mandatory credivno-credit grading.

A student must specify this grading scheme option at the time of registration, or process a change of registration during the erase period. A student choosing this grade option will receive a CR or NC grade. Credit is awarded for a CR grade, but CR and NC grades are not included in the calculation of a grade point average.

The major purpose of the credit/no-credit option is to encourage students to broaden their education by venturing into subject areas outside their fields of specialization without hazarding a relatively low grade.

Students expecting to transfer to a four-year institution should study that institution's policy on accepting CR/NC grades before selecting the option.

## Grades

The following grading system is used at KCC:
A Excellent achievement
B Above average achievement
C Average achievement
D Minimal passing achievement
F Failure
CR Credit; used to denote work deserving the credit at "C" levelor better for courses taken by the student on CR/NC grading option. Students must specify this option at the time of registration.
NC No credit; given to denote minimal achievement or failure under the CR/NC grading option.

## Enrollment Symbols

W Withdrawal after the first three weeks.
I Incomplete; used to indicate that the student has yet to complete all required course work.
Thestudent must initiate the request for an incomplete grade with the instructor prior to the instructor's submission of final grades. The "Request for Grade of Incomplete" form must be completed and submitted to the Office of Registration and Records with the instructor's final grade sheet. The "I" symbol can begiven only at the time an instructor submits the final class grade sheet.

Students receiving an " 1 " should consult with the instructor to determine the steps for completing the incomplete work. Incomplete work must be made up within the first eight weeks of the following semester or the " 1 " will be automatically converted to "F."

When a student completes required work prior to the deadline, the instructor will initiate a change of grade that takes the completed work into consideration.

## Grade Point Averages (GPA)

Grade point averages will be computed on a four-point scale as follows:

A 4 grade points per credit
B 3 grade points per credit
C 2 grade points per credit
D 1 grade point per credit
F 0 grade point per credit
The grade point average shall be computed by dividing all grade points received by credits attempted. Grades of "CR" and "NC" are not included in the computation. If a course in which a " $D$ " or an " $F$ " grade has been received is repeated and an equivalent or better grade is earned, the new grade shall be used in the grade point computation. The " $D$ " or the " $F$ " grade remains on the student's record but it will not be used in the grade point computation.

## Repetition of Courses

Students may repeat college courses in which a grade lower than a "C" was received. The credit will be allowed once for a course, but students will receive the higher grade and grade points. Students may repeat certain courses for additional credit, if so indicated in the course description. Students may not repeat a course for which a " $\mathrm{CR}^{\prime}$ grade was awarded. Permission to repeat selected courses may be subject to specific program requirements. Students who intend to transfer are reminded that many colleges and universities do not permit the substitution of higher grades when computing grade point averages and will compute the grade point average according to their own standards.

## Grade Reports

Grades are mailed to the student at the end of each semester and summer session to the student's local address of record. All changes of address should be reported immediately to the Office of Records.

## Transfer Credit

A student transferring from another institution may be allowed credit(s) for previous training. Grades received for transferable courses are not computed as part of the student's grade point average. The student must have transcripts of previous work sent directly to the Office of Records by the institution previously attended and complete a Request for Transcript Evaluation Form at the Office of Records. To be eligible for a degree or certificate, the final 12 credits must be earned at Kapi'olani Community College.

## ACADEMIC PROBATION, SUSPENSION, DISMISSAL

## Academic Probation

Any student earning less that a cumulative 2.0 grade point average will beplaced on academic probation. Only grades of "A" through " $F$ " will be computed in the student's grade point average.

A student on probation will be allowed to enroll for a maximum of 12 units of work per semester unless the academic advisor allows more to be taken. A student on academic probation who subsequently achieves a cumulative 2.0 grade point average will be removed from academic probation.

## Academic Suspension

A student on academic probation who fails to achieve at least a 2.0 grade point average after courses undertaken during the probationary semester shall be suspended for one semester. Only grades of " $A$ " through " $F$ " will be computed in the student's grade point average. However, a student suspended at the end of the spring semester is eligible to attend the summer session immediately following that spring semester. If the student raises the cumulative GPA to 2.0 or higher at the end of the summer session, the suspension will be rescinded.

A suspended student is placed on academic probation after returning to the College and must comply with the conditions set forth for probationary students. The student will continue on probation as long as the cumulative grade point average remains below 2.0. Failure to achieve at least a 2.0 grade point average for courses undertaken during a probationary semester following suspension will result in academic dismissal from the College.

## Academic Dismissal

Students are dismissed when they have been previously sus pended and have failed on readmittance to maintain a GPA of at least 2.0 inthe probationary semester following suspension. However, a student dismissed at the end of the spring semester is eligible to attend the summer session immediately following the spring semester. If the student raises the cumulative GPA to 2.0 or higher at the end of the summer session, the dismissal will be rescinded.

## NOTICE OF CHANGES

The University reserves the right to make changes in certain fees, faculty assignments and time schedules; to cancel classes when necessary; and to set maximum limits for enrollment in certain classes. Notice of such changes will be given when possible.

# Student Affairs 

## He pāo'o ka i'a a'ohe kāheka lehei'ole 'ia There is no sea pool that a pao'o fish does not leap into.

An active person is found everywhere, the Hawaiian proverb says, an adage especially appropriate at Kapi'olani Community College wherestudent services, activities and special programs are expanding with the Diamond Head campus.

## STUDENT SERVICES

The Student Services Offices are concerned with every aspect of student life. There are various locations for student assistance. (1) Registration and Records, and Financial Aids Offices in 'llima 102; (2) Career and Personal Development Center in Ilima 103; (3) Office of Admissions and Information Services in 'llima 106; (4) Student Activities Center in Mānele 103; and (5) Special Student Services in 'llima 104. Office hours for all student service operations are 8:00 a.m. to 4:30 p.m., Monday through Friday. Limited evening counseling is available.

## Information Services

One of the functions of Student Services is to provide students with information on admissions, college procedures and campus resources. Sludents may also obtain program information sheets outlining course requirements as well as information about other college programs from the Office of Admissions and Information services.

## Career and Personal Development Services

The Career and Personal Development Center provides career counseling, academic advising, vocational testing and off-campus job placement. These coordinated activities are designed to assist students in the various phases of academic development, career awareness, career exploration and career preparation.

The Center also houses a Career Library which includes the following audio-visual career resource materials for student and faculty use:

1. Career Kokua, a computerized Career information System containing current data on local occupations, wages and schools.
2. College catalogs guides.
3. Career exploration, job search, and personal development resource materials.
Students are encouraged to visil the Career and Personal Development Center during their first semester at the College and to make frequent use of the services throughout their years at the College as well.

## Counseling Service

Counselors are available to assist prospective as well as enrolled students with educational, personal and career concerns. Counseling services are available in the areas of self-evaluation, selection of vocations and academic planning. Vocational tests and interest inventories are also available to the students, upon request, to assist them in narrowing possible career choices. In addition to individualand group counseling sessions, a computer-assisted advising program is available to help students in their second and subsequent semesters' selection of courses. This computer gener-
ated program focuses on the selection of courses to complete graduation requirements in the shortest amount of time and provides other helpful advice to the student.

## Testing Senvice

Placement tests are given to those students who are new to college or have not yet completed their English or Math course requirements. All students must obtain placement test scores prior to entry into English, Mathematics and other selected courses. Refer to the Description of Courses section in this catalog for specific information. These tests are designed to evaluate the student's ability to benefit from college-level training and to better assist students and their advisors in planning the student's program of study. Testing arrangements may be made at the admissions office 'llima 106.

Special arrangements can be provided to disabled students for taking Placement tests. Students needing special arrangements should call the Special Student Services Office, 734-9552, at least a week ahead of the testing date.

## Developmental Education Services

For those students who enter the College with insufficient skill development to pursue their major programs of study, the College offers courses with a focus on the development of necessary reading, writing, mathematics and study skills. The College seeks:

1. To provide students the opportunity to develop reading, writing, mathematics and study skills that enable them to succeed in college.
2. To assist students in developing a positive self-concept.
3. To help students select and prepare for entry into an appropriate educational or occupational major.
The College has three Learning Assistance Centers where tutorial services and the AIMS Program (a computer managed basic skills program) are provided. Students are recommended for these services based upon their reading and math placement test scores, and an evaluation by a counselor, advisor or instructor at the time of orientation and registration.

## Special Student Services

The Special Student Services Office (SSSO) in 'llima 104 provides assistance to the physically and learning disabled and/or disadvantaged student. It includes: application and registration assistance; financial aid information; career, personal and academic counseling; tutors, readers, notetakers, mobility attendants and sign-language interpreters; auxiliary equipment suchs as cassette recorders, taped texts, talking calculators, magnifiers, page turners and wheelchairs; campus accessibility map showing locations of ramps, restrooms, elevators and handicapped parking stalls; TDD locations are on the map at the end of this catalog. Students desiring special services are advised to contact SSSO as early as possible so that service may be arranged on a timely basis. For further information contact: Mary Joan Haverly or Lori Ideta, 'Ilima 104, 734-9552.

## Employment Placement

The Job Placement Office in 'Ilima 103 provides a valuable link in the partnership between the college and the business community.

The staff assists current students and alumni in preparing for and securing relevant positions through resumé and interview skills workshops. Employment opportunities are kept current by a computerized system which lists many available off-campus jobs for Kapi'olani students. A referral service is also provided. On-campus positions are also available through the Financial Aid Office in Ilima 102. Many of these are filled by students who qualify for the College Work Study program.

## Veteran Services

The College is approved for veterans training under the G.I. Bill and eligible students may receive financial assistance as provided for by the Veterans Readjustment Benefits Act and the War Orphans Assistance Act.

Counseling and testing are available to the veteran to assist in the selection of a college program or career development. Tutorial and developmental programs are also offered to the veteran when needed. All veterans are advised to visit the veterans' certification clerk located in the Records Office in 'llima 102 prior to registration for assistance regarding $V$.A. benefits and help in expediting pay and other problems.

Veteran students are required to register for courses leading to a degree or certificate as outlined in this catalog. Veteran students must graduate within the credit limits established for the program of study. Liberal arts majors are not allowed to take courses numbered below 100 unless required to do so as a prerequisite for other courses. No recipient of veterans' benefits will be authorized to take moreelective courses than the program allows.

Veteran students who transfer from other colleges are required to write to each college they have attended (regardless of whether or not the courses or programs were completed) and have those colleges send an official copy of their transcripts directly to Kapi'olani Community College for possible transfer credit. NO HAND-CARRIED TRANSCRIPTS WILL BE ACCEPTED.

Each V.A. recipient must notify the veterans' certification clerk when iniliating changes in registration (regardless of the number of credits involved), changes in major, complete withdrawals and any other transaction that may affect benefits.

Applicants for advanced pay should apply at least two months prior to the beginning of classes for the semester in which they plan to enroll. No applicant for advanced pay will be given the advanced paycheck until officially registered. This means that the veteran must pay the tuition from personal funds and must present the fee receipt from the Business Office to the veterans' certification clerk.

In order to get continuous pay between semesters, veterans must notify the veterans' certification clerk of their intent to enroll in the next semester at least one month before the end of the current semester. Failure to do so will mean a break in their pay until registered for the next semester. It will be about six weeks before receipt of another paycheck. However, such pay will be backdated to the date of last attendance (if less than 30 days). If veterans attend Spring semester, skip Summer, and return in Fall, they must notify the veterans' certification clerk or they will not receive benefits.

Veteran recipients who do not maintain the College's academic standards may jeopardize the privilege of receiving their benefits. Read the catalog requirements on academic regulations; the veterans' certification clerk may be called for further assistance as well.

Veterans are not paid for "NC," "W," or other nonpunitive grades. These grades are reported to the veterans' certification clerk. Receiving a nonpunitive grade may result in an overpayment. When veterans receive such a grade, they must report it immediately to the veterans' certification clerk in 'Ilima 102.

## Heath Service

Kapi'olani Community College has no on campus health service program. In case of emergency, call 9-911.

## Insurance

Applications for college medical insurance plans are available at the time of registration. Applications are also available at the Student Activities office in Mānele 103.

## Books, Supplies, and Uniforms

The cost of books and supplies usually ranges from $\$ 90.00$ to $\$ 120.00$ per semester for a full-time student. Where uniforms are required in certain programs, it is the responsibility of the student to provide them. Students in programs for professions in health services and food services which require particular uniforms should observe the guidelines set forth by their department.

## Food

Meals are served in 'Öhelo 209 and 210, Tuesday through Friday. Lunch is 11:30 A.M. to 1:00 P.M., dinner 5:45 P.M. to 8:00 P.M. Reservations are required, 734.9488 or 734-9489 between 9:00 A.M. to 11:00 A.M. and 4:00 P.M. to 6:00 P.M.

A coffee shop and cafeteria in 'Öhi'a serve from 7:00 A.M. to 6:00 P.M., Monday through Thursday (4:00 P.M. on Friday, 2:00 P.M. in summer). The coffee shop is closed on Monday.

## Housing

Kapi'olani Community College does not offer housing services. Offers for living arrangements are posted on bulletin boards. Arrangements are made directly with landlords.


Photo by Moriso Teraoka
Deli sandwiches are a popular item in the cafeteria.

## Security

Campus securily is in effect 24 hours a day, seven days a week. The office is located at 'llima 204, phone 734-9542.

## Transportation

Students are encouraged to use the city bus. Routes \#3 and \#58 have stops at the College and route \#14 has stops on Pahoa Ave.

## Parking

There is no charge for parking, but free permits are required for certain lots. Students are expected to familiarize themselves with the parking and traffic rules of the College, as established by the Board of Regents. These regulations are available in the security office.

## Bookstore

The bookstore, located in the Ohi'a Bidg., carries all textbooks and essential school supplies used by the College. The bookstore is open from 8 a.m. to $3: 30$ p.m., Monday through Friday.

## Childcare

The Kapi'olani Community College 'Alani Child Care Center provides care for children of students, faculty and staff members. The Center enrolls children, ages two to five. Hours are 7:30 a.m. to 5:30 p.m., year round. For information on how to apply, cost and available openings, call the Alani hild Care Center at 734-9394.

## STUDENT REGULATIONS

Student conduct at Kapi'olani Community College is defined in the Board of Regents' Statement on Rights and Responsibilities of the Universily of Hawai'i Community.

## Student Conduct

The University of Hawai'i, Kapi'olani Community College, has a Code of Student Conduct which defines expected conduct for students and specifies those acts subject to University sanctions. Students should familiarize themselves with the Code of Student Conduct, since upon enrollment at UH/Kapi'olani Community College, students place themselves under the policies and regulations of the University and its duly constituted bodies. The disciplinary authority is exercised through the Student Conduct Committee. The Committee has developed procedures for hearing allegations of misconduct. Copies of the Student Conduct Code are available at the Office of the Dean of Student Services.

Academic dishonesty cannot be condoned by the University. Such dishonesty includes cheating and plagiarism (examples of which are given below) which violate the Student Conduct Code and may result in expulsion from the University.

Cheating includes but is not limited to giving unauthorized help during an examination, obtaining unauthorized information about an examination before it is administered, using inappropriate sources of information during an examination, altering the record of any grades, altering answers after an examination has been submitted, falsifying any official University record and misrepresenting the facts in order to obtain exemptions from course requirements.

Plagiarism includes but is not limited to submitting, to satisfy an academic requirement, any document that has been copied in whole or part from another individual's work without identifying that individual; neglecting to identify as a quotation a documented idea that has not been assimilated into the student's language and style, or paraphrasing a passage so closely that the reader is misled as to the source; submitting the same written or oral material in
more than one course without obtaining authorization from the instructors involved; or "dry-labbing," which includes (a) obtaining and using experimental data from other students without the express consent of the instructor, (b) utilizing experimental data and laboratory writeups from other sections of the course or from previous terms during which the course was conducted, and (c) fabricating data to fit the expected results.

## Financial Obligations to the University

Students who have not satisfactorily met their financial obligations (tuition and fees, traffic violations, parking tickets, unreturned library books, library fines, other fines, locker fees, laboratory breakage charges, transcript fees, loans past due, rental payments, etc.) may be denied grades, transcripts, diplomas and registration.

A copy of the "Rules and Regulations Governing Delinquent Financial Obligations Owed the University of Hawaii," promulgated by the Board of Regents, is on file in the Office of the Dean of Student Services.

## Lethal Weapons

Firearms, spear guns, bows and arrows, and any other lethal weapons are prohibited on campus except with specific prior permission of the Provost.

## Illicit Drugs and Alcohol

In conformance with the existing law, University faculty, slaff and students are not permitted to manufacture, distribute, possess, use, dispense or be under the influence of illegal drugs and/or alcohol as prohibited by State and Federal law, at University-sponsored or approved events or on University property or in buildings used by the University for education, research or recreational programs. Consistent with its mission, the University will cooperate with law enforcement agencies responsible for enforcing laws related to the use of illegal drugs and alcohol. Students found in violation of this part shall be subject to the provisions of the student conduct code. Faculty and staff found in violation of this part are subject to disciplinary action as provided in collective bargaining agreements, University policy and other applicable State laws and rules.

The University recognizes that substance abuse is a complex problem that is not easily resolved solely by personal effort and may require professional assistance and/or treatment. Students, faculty and staff members with substance abuse problems are encouraged to take advantage of available diagnostic, referral, counseling and prevention services. The University will not excuse misconduct by employees and students whose judgment is impaired due to substance abuse.

Campus sponsored activities on campus that involve either the serving or selling of alcoholic beverages must be in compliance with applicable College/University policies and State law. Copies of policies governing the possession, consumption, serving and sale of alcoholic beverages on the University of Hawai'i Kapi'olani Community College campus are available in the Office of Student Services and the Office of the Chancellor for COmmunity Colleges.

## Smoking

In accordance with the State's No Smoking Act, Act 108, SLH 1976 and Act 245, SLH 1987, smoking is prohibited in any of the classrooms, laboratories, conference rooms and other covered structures of the College.


A hypnotist entrances subjects and audience alike during a Monday noon hour program in the cafeteria.

## Academic Grievances

The process of addressing allegations of misconduct and redressing academic grievances is described in the procedures for Handling Impermissible Behavior and the Academic Grievance Procedures and in CCCM No. 2210 UH Community College Procedure and Guidelines Relating to Complaints of Discrimination.

A concerned student must first attempt to resolve the grievance on an informal level with the faculty member. Should the grievance not be resolved at this level, the student then asks the appropriate department chairperson to review the case. If a satisfactory solution is still not reached, the student has the right to request a hearing before the Academic Grievance Committee, a body of faculty and students. The decisions of the Academic Grievance Committee are final within the University.

Copies of the academic grievance procedures are available in the Office of the Dean of Student Services.

## CO-CURRICULAR STUDENT ACTIVITIES

## Student Congress

All students maintaining a GPA of 2.0 or better automatically become regular voting members of the Student Congress. Elections are held each Spring for the offices of Chair, Vice-Chair and Secretary. In addition, individual members are elected to represent each student organization and an equal number "at large."

The Student Congress is the official channel between students and the College administration.

## Board of Student Activities

The Board of Student Activities oversees the co-curricular student activities program at the College. The mission of the program is to complement the academic program and to enhance the overall educational experience of students through development of, exposure to, and participation in social, cultural, intellectual, service, recreational and governance programs. The primary focus of the program is "Learning by Doing."

Students are encouraged to participate in all aspects of the student activities program. Interested students may obtain more information at the Student Activities office in Mānele 103.

Programs available include: student clubs, concerts, health fairs, book exchange, social events and recreational sports. Arrangements have been made with the UH-Mānoa Intramural Department and Campus Center Board for limited participation of KCC students. Participation requires payment of a small user fee. Students must register at the College's Student Activities office.

## Board of Publications

The Board of Student Publications publishes: the weekly student newspaper, the KAPI'O; a magazine of essays written as class assignments, the Diamond Journal; a literary and art magazine, KA NANI; a magazine for returning students, Full Circle; and specialty magazines and yearbooks for various programs. It also sponsors readings to encourage student writers. The publications are supported by student publications fees. Students interested in submitting articles and/or in participating in these publications should inquire at the KAPI'O Office in Lama 119.


A variety of student publications provide an opportunity for students to showcase art and writing at all levels.

# Transfer Information 

## 'A'ohe pau ka 'ike i ka halau ho'okahi. All knowledge is not taught in the same school.

For many students Kapi'olani Community College will be the first of many institutions of higher learning that they will enjoy in their pursuit of knowledge. It is essertial that students who seek to transfer to a four-year college be aware of the following procedures.

## TRANSFER REQUIREMENTS

The College's liberal arts curriculum and some of the vocational courses are designed to enable a student to transfer to a four-year college or university. However, entrance requirements for the various four-year colleges and universities are not uniform. Students should familiarize themselves with the requirements of the colleges and fields of study of their choice. They should consult with their faculty advisors and counselors in order to arrange a program that will meet these requirements as well as permit them to graduate from Kapi'olani Community College.

## TRANSFER PROCEDURES

The following steps should be taken in appying for admission to a four-year institution:

1. Write for application forms and transfer procedures from the admissions offices of colleges being considered in sufficient time to meet the college deadline.
2. If examinations are required, register for and take them.
3. Check with the Career and Personal Development Center regarding transcripts and other details.
4. Follow-up to check whether transcripts were sent and received. For students wishing to transfer to UH-Mānoa, the application period is December 1 to May 1 for the fall semester and June I to November I for the spring semester. Students are advised to check requirements of the college of their choice since some colleges at UH-Mānoa have earlier deadlines. In addition, students should familiarize themselves with the articulation policy in effect among the community colleges, the Hilo, West Oahu and Mānoa campuses. Students can receive this information from program faculty or counselors.

## UH-MÃNOA TRANSFER POLICY

The following conditions of transfer are in effect:

## 1. TRANSFER STUDENTS

Students may transfer among campuses of the University of Hawai'i system provided they meet the requirements of the program into which they wish to transfer.
a. Students not originally accepted to UH-Mānoa may transfer there without taking an entrance examination. Before transferring, a student must complete a minimum of 24 credits in courses numbered 100 or above at a community college. In addition, a student must meet the requirements for continuing registration at UH-Mānoa.
b. Students originally accepted at UH-Mānoa who elect to begin at a community college need not complete 24 credits before trans ferring, but they must meet the GPA requirement of UH-Mãnoa students for continued registration.
c. Students on academic suspension from UH-Mānoa who choose to attend a community college for college transfer work must earn at the community college a minimum GPA of 2.0 in order to return to UH-Mānoa. Students should be aware that if they sit out the suspension semester, they can return to UH-Mānoa automatically; but if they choose to attend a community college, they are subject to the 2.0 requirement in college level courses.
d. Students dismissed from UH-Mānoa who attend a community college may return to UH-Mānoa only by application to the appropriate UH-Mānoa college. This same procedure should followed by dismissed students who do not attend school.

## 2. CREDIT TRANSFER

a. Credit for courses numbered 100-299 will transfer to UHMānoa.
b. Credit for a " $D^{\prime \prime}$ grade or better will transfer to UH-Mãnoa.
3. GRADE POINT TRANSFER

UH-Mānoa does not include community college GPA in UHMãnoa's cumulative GPA.

## SPECIAL ADVISING FOR TRANSFER

## ASIAN-PACIFIC ADVISING PROGRAM

The Asian-Pacific Advising Program helps students transfer into the various programs of the School of Hawaiian, Asian and Pacific Studies at UH-Mānoa. For more information, contact: Dr. Robert Franco, Olona 118, ph. 734-9285 or Robin Fujikawa, instructor, Koa Bldg., Rm. 106, ph. 734-9376.

## BIOMEDICAL FOCUS PROGRAM

The Biomedical Focus Program at Kapi’olani Community College can help students prepare for Pre-Medical and other biomedically related programs. For more information, contact Charles Matsuda, Chair of the Science/Mathematics Department.

## PRE-ART PROGRAM

The Visual Arts Program offers a variety of transferable studio art and art history courses. Pre-Art transfer tudents are offered basic art core classes required for a studio BA or BFA at UH-Mānoa. In addition, media specific studio course provide the opportunity for students to explore different means of visual expression. These KCC ocurses also articulate into the variaous studio majors at UHMãnoa.

Pre-transer art students are encouraged to contact a staff member for information early in their college career at KCC. Students planning to transfer should complete the GEneral Education Requirements for Liberal Arts while following these guidelines in the Art area:

Suggested Sequence of Art Courses
First Semester
Art 101
1 studio Art Core class
(Art 113, 114, 115 or 106)
Second Semester
1 studio Art Core class
(Art 113, 114, 115 or 106)
1 lower division studio class in a specific medium
(Art 105, 107, 112 or 123)
Third Semester
Art 270
1 studio Art Core class
(Art 113, 114, 115 or 106)
1 lower division studio class in a specific medium
(Art 105, 107, 112 or 123)
Fourth Semester
Art 280
1 studio Art Core class
(Art 113, 114, 115 or 106)
1 studio class in a specific medium

## PRE-BUSINESS ADVISING PROGRAM

## General Information

The purpose of the Pre-Business Advising Program is to enable the student to transfer as a junior to UH-Mānoa College of Business Administration and to earn an Associate of Arts degree at the same time. Because graduation requirements are subject to change over time, students must maintain continuous enrollment in order to graduate under these requirements.

## Pre-Business Core Requirements

The indicated numbers of credits in all of the following categories of courses are required to meet the graduation requirements of the College of Business and KCC Associate of Arts Degree requirements. Course marked with an $\mathbf{R}$ are included in course prerequisites for admission and are therefore required as part of the UH-Mānoa College of Business Administration admissions requirements.

| General Education (15 credits) | credit |
| :---: | :---: |
| Communication Skills |  |
| ENG 100 (R) or ESL 100 (R) | 3 |
| SP 151 (R) | 3 |
| World Civilization |  |
| HIST 151, 152 | 6 |
| Calculus |  |
| MATH 205 (R) (requires MATH 135, 140) | 3 |
| or |  |
| QM 250 (R) (requires MATH 135) | 3 |
| (QM 250 does not fulfill UH-MÅnoa College |  |
| of Arts and Sciences core requirements) |  |
| Humanities (9 credits) |  |
| Select one course from each group |  |
| Group 1 |  |
| ENG 250, 251, 252, 253, 254, |  |
| 255, 256, 257 (R) | 3 |
| Group II |  |
| PHIL 100, 200, 201; |  |
| REL 150, 151, 200, 201 | 3 |

Group III AMST 201, 202; ART 101, 270, 280;

DANCE 150; HIST 241, 242, 252,
281, 282; MUS 106, 107, 108
Natural Sciences ( 10 credits)
Select at least one course from Group I and one course from Group II.
One course must include a lab (L).
Group I (Biological Sciences)
BOT 101(L), 130(L); MICRO 130 (140 is 2 credit lab); SCI 121(L); ZOOL 101(L), 141(L), 142(L), 200(L) 3
Group II (Physical Sciences) CHEM $151(\mathrm{~L}), 152(\mathrm{~L}), 161(\mathrm{~L}), 162(\mathrm{~L}) ;$ GG 200; PHYS $100(\mathrm{~L}), 151(\mathrm{~L}), 152(\mathrm{~L}) ; \mathrm{SCI} 122(\mathrm{~L})$
Group III (Other Sciences)
Any course from Group or Group II or OCEAN 201, SCI $124(\mathrm{~L})$, GEOG 101(L)
ICS 111 (required of all MIS majors) 3
Laboratory Science

Any course with (L) above
Social Sciences ( 9 credits)
Economics
ECON 130(R), 131(R)
Other Social Sciences (select one) AMST 211, 212; ANTH 150, 200; BOT 105; JOURN 150; PSY 100, 170; FAMR 230; SOC 100, 218, 231, 251; POLSC 110, 220, 230, 271; GEOG 102, 151

## Electives/Other

Accounting ACC 201 (R), 202(R) 6
Business Law LAW 2003
Business Communications ENG 209 WI (ENG 309 at UH-Mānoa CBA) 3
Foreign Language
101,102 8
201,202 $\quad 8$
Total Recommended Credits 71
For more information, contact:
Dr. Ibrahim Dik
Olona 210
Phone: 808-734-9830]
Fӑх: 808-734-9454

## Kevin Dooley

'Iliahi 114
Phone: 808-734-9313
Fах: 808-734-9454


Courtesy of Ibrahim Dik
Students at the Pre-Business advising party.

PRE-EDUCATION ADVISING PROGRAM

## General Information

The purpose of Pre-Education Advising PRogram is to prepare the student to complete the basic pre-education core requirement prior to applying to UH-Mänoa College of Education.

## Pre-Education Core Requirements <br> General Education

Communication (two courses)
ENG 100
SP 200
World Civilization (two courses) HIST 151, 152
Quantitative/Logical Reasoning (one course) MATH 100, 140 or higher (PHIL 110 may be substituted for secondary majors only)

## Humanities

Choose three of the following four areas and select one course in each area chosen.
NOTE: MUS 108 is required for elementary majors.
History and Culture
AMST 201, 202
HIST 241, 242, 281, 282, 288
Language and Literature
ENG 250 through 257
EALL 271, 272
LING 102
Values and Meaning PHIL 100, 102, 200, 201 REL 150, 151, 200, 201
The Arts
ART 101, 270, 280
DANCE 150
DRAMA 101
MUS 106, 107, 108
(MUS 108 is required of elementary majors)

## Natural Sciences

(minimum of 12 credits)
Group 1 (Biological Sciences)
SCI 121, 121L
or
BOT 101, 101L; ZOOL 101, 101L
Group II (Physical Sciences)
SCI 122, 122L
or
CHEM 151, 151L, PHYS 100, 100 L
Group III (Other Sciences)
SCI $225^{*}, 225 L^{*}$ (prerequisites: SCI $122,122 \mathrm{~L}$ )
or choose two of the following
ASTR 110; OCEAN 201; GG 101*, 101L;
MET 101*, 101 L*
(* courses currently not offered at KCC)
Social Sciences (three courses from different departments) FAMR 230 or PSY 100, 240
AMST 211, 212; ANTH 150, 200; BOT 105;
ECON 120, 130, 131; JOURN 150; GEOG 102, 151;
POLSC 110 or higher; PSY 170; SOC 100, 218, 231, 251

## Foreign Language

Students entering the UH system in Fall '89 or after are required to complete through the second level.

NOTE: A three credit course in Hawaiian history, culture, language, or geography is also required. The following courses may meet this requirement: BOT 105, 130, 130L; DANCE 212 (1 credit); GG 200; HAW 101, 102, 201, 202; HIST 224; SSCI 120; ZOOL 100.

## Additional Information

1. Admission requirements to UH-MÅnoa College of Education include the following:

- Cumulative grade point average of 2.75 with 55 transferable credits
- Completion of pre-education core requirements
- 40 hours total of field experience with students ar the age level you would like to teach. It is recommended that applicants obtain field experience at both the primary and secondary level.
- Passing score at the 70 th percentile on the California Achieve ment Test.
- 300 word essay exam to assess writing skills and ability.
- Personal interview with a College of Education interviewer to assess oral communication skills.

2. UH-Mānoa requires every student planning to receive a bachelor's degree to complete several Writing Intensive courses. Students entering UH-Mānoa 1990-91 or after are required to take five Writing Intensive courses, two of which shall be in the upper division (junior-senior level).
3) Pre-secondary education majors should see an advisor for any additional core requirements specific to their major.

For more information, contact Mona Lee, 'llima 103, 734-9500


Speech 200 gives prospective teachers skills for the classroom.

## PRE-ENGINEERING ADVISING PROGRAM

General Information
The Pre-Engineering Advising Program is a Liberal Arts program that prepares a student at Kapi'olani Community College for transfer to UH-Mänoa's College of Engineering. Students who want to transfer to engineering degree programs at any other fouryear college of university should see their Pre-Engineering Advisor. Students should note that the engineering degree requirements may differ from university to university. UH-Mānoa's College of Engineering offers three fields of study: Civil Engineering (CE), Electrical Engineering (EE), and Mechanical Engineering (ME).

Transfer Information
Students may take courses at KCC to complete their first year of study towards an engineering degree. Additional courses for studies beyond the first year may be provided in the future, depending on student demand, school resources and availability of instructors. (Check with the Pre-Engineering advisor regarding the availability of courses each semester.) In general, KCC students will be accepted into UH-Mānoa's College of Engineering if they achieve an overall college GPA of at least 3.0 in 24 or more transferable credits (courses over the 100 level), and if they also complete certain required courses at $K C C$. The required courses will count towards the 24 transferable credits.

The KCC Pre-Engineering sludent must take the following required courses which are offered at KCC:

ENG 100; MATH 205 and 206; PHYS 170 and 170L (lab); CHEM 161 and 162; and one chemistry lab, CHEM 161 L or 162 L.

The KCC Pre-Engineering student who wishes to transfer after one year of study at KCC should take the following suggested courses, depending on the student's interest in CE, EE, or ME:

|  |  | C | E | M |
| :--- | :--- | :--- | :--- | :--- |
| Year 1, Semester 1 | Credits | E | E | E |
| CHEM 161 | 3 | $X$ | $X$ | $X$ |
| CHEM 161L | 1 | $X$ | $X$ | $X$ |
| EE 150 | 3 | $X$ | $X$ | $X$ |
| ENG 100 | 3 | $X$ | $X$ | $X$ |
| MATH 205 | 4 | $X$ | $X$ | $X$ |
| Social Science Elective | 3 | $X$ | $X$ | $X$ |
| Total Credits |  | 17 | 17 | 17 |


| Year 1, Semester 2 |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| CE 113 | 3 | X |  |  |
| CHEM 162 | 3 | X | X | X |
| EE 120 | 4 |  | X | X |
| MATH 206 | 4 | X | X | X |
| PHYS 170 | 4 | X | X | X |
| PHYS 170L | 1 | X | X | X |
| SP 251 | 3 | $\underline{X}$ | $\underline{X}$ | $\underline{X}$ |
| Total Credits |  | 18 | 19 | 19 |

The KCC Pre-Engineering student who wishes to transfer after two years of study at KCC should take the following suggested courses, depending on the student's interest in CE, EE, or ME.

$$
\begin{array}{cccc} 
& \text { C } & \text { E } & \text { M } \\
\text { Credits } & \text { E } & \text { E } & \text { E }
\end{array}
$$

Year 2, Semester 2
*CE 211 X

| *CE 270 | 3 | $X$ | $X$ | $X$ |
| :--- | :--- | :--- | :--- | :--- |
| *EE 211 | 4 |  | $X$ | $X$ |
| HIST 151 | 3 | $X$ | $X$ | $X$ |
| *MATH 231 | 4 | $X$ | $X$ | $X$ |
| PHYS 272 | 3 | $X$ | $X$ | $X$ |
| PHYS 272L | 1 | $\underline{X}$ | $\underline{X}$ | $\underline{X}$ |
| Total Credits |  | 17 | 18 | 18 |


| Year 2, Semester 2 |  |  |  |  |
| :--- | ---: | :--- | :--- | :--- |
| CE 271 | 3 | X |  | X |
| ECON 120, 130, or 131 | 3 |  |  | X |
| *EE 213 | 4 |  | X |  |
| *EE 266 | 3 |  | X |  |
| HIST 152 | 3 | X | X | X |
| Humanities Elective | 3 | X |  |  |
| *MATH 232 | 4 | X | X | X |
| *ME 213 | 3 |  |  | X |
| PHYS 274 | 3 |  | X |  |
| General Science <br> $\quad$ Elective | 3 | X |  |  |
| Total Credits |  | $\mathbf{1 6}$ | 17 | $\mathbf{1 6}$ |

*Courses may be available at a later date. Check with the PreEngineering Advisor regarding the availability of courses each semester.

The suggested course loads are for the highly motivated student who already possesses a strong English, Math, and Science background. A different schedule is necessary for those students who plan to attend KCC part time or who need to improve their English, Math, and/or Science backgrounds. All Pre-Engineering students are required to see their Pre-Engincering Advisor every semester for academic advising.

The following are other required courses for Engineering majors at UH-Mānoa that may also be taken at KCC prior to transfer.

Economics (select one):
ECON120, 130, or 131
Social Science Elective(select one):
AMST 211, 212; ANTH 150, 200; GEOG 101, 151;
POLSC 110, 120, 130; PSY 100, 170 ;
SOC 100, 214, 218
Humanities Electives (select two course from different groups): History and Culture:

AMST 201, 202; HIST 241, 242, 281, 282, 288
Language and Literature:
ENG 250, 3251, 253, 254, 255, 256, 257
Value and Meaning:
PHIL 100, 102; REL 150, 151
Civil Engineering General Science Elective (select one):
BOT 101, 130; CHEM 152; MICRO 130;
SCI 121; ZOOL 101
Foreign Language:
two years required
Writing Intensive Courses: Students entering the UH-Mānoa in 1990-1991 and after are required to take five writing intensive courses, two of which shall be in the upper division (junior-senior level).

For more information, contact Alfred Seita, 'Iliahi 211, 7349322.

## PRE-INFORMATION AND COMPUTING SCIENCE ADVISING PROGRAM

## General Information

The purpose of the Pre-ICS Advising Program is to enable the student to complete a required set of courses in Information and Computer Sciences at KCC and to transfer as a junior to the computer science program at the College of Arts and Sciences at UH-Mānoa.

## Written Communications

ENG 100 or ESL 100 (for foreign students)
In addition, students are required to complete, before graduation, the following number of writing-intensive (WI)
lower division courses (100-299) and upper division courses (300 and higher):

1988-1989 freshmen: three WI courses 1989-1990 freshmen: four WI (two upper division) 1990 or later freshmen: five WI (two upper division)

Mathematical or Logical Thinking
MATH 205, 206
World Civilizations
HIST 151, 152

## Foreign or Hawaiian Language

Student entering Fall 1988: equivalent of 102
Student entering Fall 1989 or later: equivalent of 202

## Arts and Humanities

Three courses with at least one each from three of the following four groups.

Group 1, The Arts
(mainly theory)
ART 101
DANCE 150
DRAMA 101
MUSIC 106, 107, 108
(mainly practical)
ART 105, 106, 107, 113, 115, 123
DANCE 121, 131, 132
DRAMA 221, 222, 240
MUSIC 114, 121 (any combination totalling three credits is one course)
SP 231, 251

Group 2, History and Culture
AMST 201, 202
HIST 241, 242, 281, 282
Group 3, Language and Literature
ENG 250, 251, 252, 253, 254, 255, 256, 257
EALL 271, 272
Group 4, Values and Meaning
PHIL 100, 102, 200, 201
REL 150, 151, 200, 201

## Natural Sciences

Five courses, including one in the biological sciences (laboratory not required) and four in the physical sciences (laboratories required).

Group I (Biological Sciences)
BOT 101, 101L, 130, 130 L
MICRO 130, 140
SCI 121, 121L
ZOOL 101, 101L, 141, 141 L, 142, 142L, 200
Group II (Physical Sciences)
CHEM 161, 161L, 162, 162 L
PHYS 151, 151L, 152, 152 L

## Social Sciences

Three courses from three different departments
AMST 211, 212
ANTH 150, 200
BOT 105
ECON 120, 130, 131
FAMR 230
GEOC 102, 151
JOURN 150
POLSC 110, 120, 130
PSY 100,170
SOC 100, 218, 231, 251

## Najor Requirements

ICS 111, ICS 211, ICS 241

1992 Pre-ICS Bachelor of Science Core Requirements
First Semester credits
ENG 100 or ESL $100 \quad 3$
HIST 1513
MATH 2054
CHEM 161,161L 4
ICS 115 3
Total 17


Photo by Debbie Yamao
The Computing Center offers both Macintosh and IBM compatible open labs as well as labs for classroom instruction.

| Second Semester | credits |
| :--- | :---: |
| HIST 152 | 3 |
| MATH 206 | 4 |
| CHEM 162, 162L | 4 |
| Social Science Requirement \#1 | 3 |
| ICS 111 | $\frac{3}{17}$ |
| Total |  |
|  | credits |
| Third Semester | 3 |
| Biological Science | 3 |
| Social Science Requirement \#2 | 3 |
| Arts and Humanities Requirement \#1 | 4 |
| PHYS 151, 151L | 4 |
| Language 101 | 3 |
| ICS 211 | 20 |
| Total |  |
|  | credits |
| Fourth Semester | 3 |
| Social Science Requirement \#3 | 3 |
| Arts and Humanities Requirement \#2 | 3 |
| Arts and Humanities Requirement \#3 | 4 |
| PHYS 152, 152L | 4 |
| Language 102 | $\frac{3}{2}$ |
| ICS 241 | 20 |

NOTE: To receive a Bachelor's Degree from UH-Mānoa, students must take a number of Writing Intensive (WI) courses. Please refer to the requirements specified earlier.

For further informatiion, contact:
$\begin{array}{lrl}\text { Pre-ICS Advisor } \quad \text { 'Iliahi } 108 & 734-9317 \\ \text { Business Education Office'tliahi } 112 & 734-9310\end{array}$

## PRE-PSYCHOLOGY ADVISING PROGRAM

## General Information

The purpose of the Pre-Psychology Advising Program is to prepare the student to earn an A.A. degree in Liberal Arts while completing most of the General Education core requirements for a B.A. in Psychology at UH-Mānoa.

Liberal Arts Pre-Psychology Emphasis

## General Education

ENG 100 or ESL 100 (for foreign students)
MATH 100, 140 or higher
or
PHIL 110
HIST 151, 152
SP 251 (satisfies A.A. speech requirement and B.A. Arts and Humanities, Group 1)

## Humanities

Three courses with at least one from each of the following groups.
Group 1
DRAMA 101 (THEA 101 UH-Mānoa)
EALL 271, 272
ENG 250 through 257

Group 2
PHIL 100, 102, 200, 201
REL 150, 151, 200, 201
Group 3
AMST 201, 202
ART 101, 270, 280
DANCE 150
HIST 241, 242, 281, 282
MUS 106, 107, 108

## Natural Sciences

Three courses, one of which must include a laboratory.
At least one course each must be chosen from Group 1 and
Group 2.
Group 1 (Biological Sciences) BOT 101, 101L, 130, 130L BIOL 171, 171L MICRO 130, 140 SCI 121, 121L ZOOL 101, 101L, 141, 141L, 142, 142L, 200
Group II (Physical Sciences) CHEM 151, 151L, 152, 152L, 161, 161L, 162, 162 L GG 101L, 200 PHYS 100, 100L, 151, 151L, 152, 152L
SCI 122, 122L
Group III (Other Sciences)
CEOG 101, 101L
OCEAN 201
SCI 124, 124L
ICS 111

Social Sciences
Three courses from different departments, including PSY 100 and at least one from Group 2 below.
Group 1
AMST 211, 212
ANTH 150, 200
BOT 105
FAMR 230
JOURN 150
PSY 100
SOC 100, 218
Group 2
ECON 120, 130, 131
GEOC 102, 151
POLSC 110, 120, 130, 171
In addition to the above, must take 100 level or higher electives to complete the 60 hours require for the A.A. degree. It is strongly recommended that PSY 202, 230,240, 260, and 270 be included in your elective group in order to make you eligible to pre-register in upper level psychology at UH-Mānoa.

For further information, please see the Career Center counselors (phone: 734-9500) or make an appointment with the Pre-Psychology Faculty Advisors:

| James Becker, M.A. | Kalia 101D | $734-9438$ |
| :--- | :--- | :--- |
| Jeanne Edman, Ph.D. | Olonã 215 | $734-9835$ |
| Tanya Renner, Ph.D. | Olonả 212 | $734-9832$ |

## Special Programs

## Pi'íau a kau i ka nu'u. Ascend and stand on a place of honor.

## HONORS PROGRAM

The Honors Program at Kapiolani Community College is designed for high achieving students who desire a creative learning environment that is personal, challenging and enriching. The Program, which is an integral part of the College's curriculum, provides students with an opportunity to interact in closeeducational partnership with other high achieving students and Honors faculty.

The Honors Program welcomes students, regardless of age or background, from any major, continuing or returning, full or part time, A.A. or A.S. Degree program. A student may enter the Honors Program by fulfilling the requirements in one of the following areas. In all cases, the student must provide proof (official transcripts) to the Honors Coordinator.
I. Upon entering Kapi’olani, a student would have to fulfill two of the following:

1. Graduation with a GPA of 3.5 or better from their high school class.
2. Placement in English 100 and Math $27 / 100$.
3. Or, an ACT score of 23 or a SAT composite score of 1000.
II. A continuing student at Kapi'olani must fulfill all of the following criteria:
4. Completed 12 credits at Kapi'olani in courses that fulfill the requirements of his/her selected program before apply in for the Honors Program.
5. Maintain an accumulated CPA of 3.5 for courses in their program, with no grades lower than a "C".
6. Be currently enrolled at Kapi'olani for nine credits.
III. OR, a continuing student must fulfill all of the following:
7. Completed 24 credits at Kapiolani in courses that fulfill the requirements of their selected program before applying for the Honors Program.
8. Submit transcripts which reflect timely academic progress, with the last nine credits completed in one semester reflecting a GPA of 3.5 for courses in their program, with no grades lower than a " C ".
9. Maintain a total accumulated GPA no lower than 3.5 for courses in their program, with no grades lower than a " C ".
10. Be currently enrolled at Kapi'olani for nine credits.

In addition, all applicants should:

1. Submit two recommendation forms from previous instructors, professors, high school teachers, or counselors attesting to their academic ability, talents and potential.
2. Submit copies of their most recent transcripts (high school or college) to the Honors Coordinator in the Learning Assistance Center (LAC).
3. Submit a two-page (typed, double space) essay discussing rationale for entering the Program, the possible gains as a participant in the Program, and his/her contributions to the Program.

The Honors Program Graduation Requirements

1. Successful completion of two (2) Honors courses ( 6 credit minimum).
2. 3.5 cumulative grade point average.
3. Upon fulfillment of 1 arid 2 above, the Honor student will be designated as a "Kapi'olani Scholar" at commencement and on their official college transcripts. (The student must notify the Honors Coordinator of their graduation status to be recognized at commencement. Designation on the official transcript will be implemented in accordance with the Registrar's office.)

For further information, contact the Honors Coordinator in the Learning Assistance Center, 'Iliahi 228-B at 734-9370.

## PHI THETA KAPPA ALPHA KAPPA PSI

Phi Theta Kappa is the International Honorary Society of the two year college. Although this society began in 1918, the Alpha Kappa Psi Chapter at Kapi'olani Community College began in 1985 and continues to identify and bring together high-achieving students in all majors and from all degree programs. The following criteria are required for membership:

1. Be enrolled in a two-year college
2. Have at least 12 credit hours of course work leading to and Associate Degree.
3. Have achieved a cumulative grade point average of 3.5 .
4. Have established academic excellence as judged by the faculty.
5. Be of good moral character and possess recognized qualities of citizenship.

Contact Honors Education Coordinator at 734-9370 for further information.

## SIGMA DELTA MU

Sigma Delta Mu is the National Honor Society for Hispanic Studies for two year colleges. The motto of SDM is "Plus Ultra," which means "to go beyond."

Members of the society endeavor to "go beyond" by achieving academic excellence in the study of the Spanish language, art and literature. To become an active member, students must be enrolled in their second semester or higher of Spanish. They must have a GPA of 3.0 in Spanish, and a minimum overall GPA average of 2.75.

## COLLEGE CREDIT EQUIVALENCY PROGRAM

Kapiolani Community College recognizes that there are experiences outside the classroom that can provide college-level competency. Students with such life experiences may choose to validate their expertise through a number of evaluation procedures.

Credit options provided through the College Credit Equivalency Program (CCEP) fall into three broad categories: Examinations,

Course Evaluations, and Portfolio Documentation of Experiential Learning. Options within these categories are explained below.

## CREDIT BY EXAMINATION

## 1. COLLEGE BOARD ADVANCE PLACEMENT PROGRAM and COLLEGE LEVEL EXAMINATION PROGRAM (CLEP)

For these credit-by-examination programs, registered students may submit an official transcript to theOffice of Registration and Records and complete a Request for Transcript Evaluation form.

## 2. KAPI'OLANI COMMUNITY COLLEGE CREDIT BY EXAMINATION

A registered student who presents evidence that through experience or training he or she has attained the equivalent of a course at Kapi'olani Community College may apply for Credit-by-Examination during the first six weeks of the semester (or first two weeks for modular classes.) There are some courses which may not be challenged through this process and each course may be challenged only once. Credits earned through Credit-by-Examination are not counted in the student's enroliment for full or part-time status and may not be used to meet the last 12-credit residency requirement of the chosen major (unless the 12 credit residency requirement is waived by the Dean).

## Procedure:

Contact the Chairperson of the Instructional Department responsible for the challenged course, if the department offers credit by examination for the course, request the APPLICATION FOR CREDIT BY EXAMINATION FORM. Complete the form and obtain the Department Chairperson's signature of approval. Determine the time when the examination will be administered. Obtain the credit by examination class code from the Instructional Services Office in 'llima 206. The class code will be assigned and entered into the computer course file.
If registering for credit by examination during the registration period, follow instructions in the Schedule of Courses. After the registration period (and/or during the first six weeks of instruction or first two weeks of modular classes,) present the approved form to theOffice of Registration and Records.. Complete the "Change of Registration Form" to add the credit by examination course.
Take both forms to the Business Office and pay tuition and fees if necessary. Full-time students will not be assessed additional tuition. The Business Office will validate the forms and return them to you.
Present the validated forms to the department at the scheduled time for the examination.
The department will submit the examination grade to the Office of Registration and Records and will inform you of the examination grade.

## COURSE EVALUATIONS

1. AMERICAN COUNCIL ON EDUCATION GUIDE TO EDUCATIONAL CREDIT FOR TRAINING PROGRAMS. HAWAI'I GUIDE TO CREDITING NONCOLLEGIATE-SPONSORED LEARNING. INDEPENDENT STUDY
For these special credit programs, registered students may submit an official transcript to the Admissions and Records Office and complete a Request for Transcript evaluation form.

## 2. ARTICULATION WITH HIGH SCHOOLS

The Credit-by-Articulation Program provides an opportunity for Hawai'i Department of Education high school students enrolling at Hawai'i's community colleges to receive college credit for certain
high school courses in Business Education. Students must apply to and beaccepted to the college and declare a major. Then they should re:view program requirements with the articulation representative. An official high school transcript should be sent to the Office of Registration and Records and a Request for Transcript Evaluation form completed. Students will be notified of acceplance of the credits.
Credits by articulation will be granted to students who have completed equivalent high school courses with an " $B$ " grade within five years of the request for credit. These credits will be processed as advanced placement credits and will not reflect a letter grade on theCollege transcript. There will be no charge for credits awarded by articulation.

## PORTFOLIO DOCUMENTATION OF EXPERIENTIAL LEARNING (LEAP)

The Life/Learning Experience Assessment Program (LEAP) offers a viable option for students to earn college credit.

LEAP essentially awards college credits to students who can prove and document their life/learning experiences as being equivalent to the stated course competencies set by the College. Through a review process, if students can successfully prove that their experiences are equitable to College standards, they are exempt from taking those courses which they have declared through LEAP.

For more information and questions regarding which courses can apply, call the LEAP coordinator in the Learning Assistance Center at 734-9450.

## POLICIES GOVERNING COLLEGE CREDIT EQUIVALENCY PROGRAMS

1. Credit evaluations of all types are available only to students currently registered at the College.
2. Letter grades will not be granted for credits awarded through these programs. A note of CR will be used and will not be calculated into the GPA. This will be followed by a notation of the credit process used, such as "Credit by Exam." Transcript recording of these credits will be recorded after a student has completed 12 credits or two consecutive semesters at the College.
3. These credits may not be used to meet the last 12 credit residency requirement of the chosen major unless residency is waived by the Provost.
4. Credit will be granted only toward a student's declared major and may require re-evaluation should a student change major.
5. Credit may be granted for both electives and courses required for a major. Individual departments determine which courses or credits are appropriate for these programs and how many credits will be accepted through these procedures.
6. Credit awards are Kapi'olani Community College credits and may not be accepted by other institutions if the student should transfer.
7. Documentation of alternative learning experiences older than ten years, or any period of time designated by a department, will require review of currency of subject matter.
8. Evaluation resources such as the ACE guides will be consulted, but the College reserves the right to reject recommendations from such sources.
9. The number of credits awarded for alternative learning experiences will be determined by:

- theextent to which student's achievements are comparable to
competencies outlined for existing course work required in the degree or certificate program;
- the extent to which the competencies a student has mastered are comparable to the college-wide and/or associate degree level competency statements;
- the scope and depth of the student's achievements evaluated against established criteria, such as minimum test scores or recommended number and level of credit award.


## COOPERATIVE INTERNSHIP EDUCATION

Cooperative Internship Education integrates academic study with periods of planned and evaluated work experience related to the students' educational objectives. Students receive academic credit and may or may not receive financial renumeration from their employers. The general objectives of Cooperative Internship Education are:

1. To provide students with planned and evaluated work experiences which will enhance the integration of theory learned in the classroom with the practical aspects of the work situation.
2. To provide students with planned and evaluated work experiences such as learning how to work, selecting appropriate career goals, and learning to work with others.
The College assists in the placement of students in job training stations to receive related work experience.

The educational values and personal benefits that students experience in Cooperative Internship Education include: orientation to the world of work, preparation for career goals, development of helpful employment contacts and references, and opportunity to earn money to defray College expenses.

Cooperative Internship Education opportunities are available for students in the following curriculum areas: Accounting, Office, Administration and Technology, Sales and Marketing, Hotel Operations, Food Service, and Legal Assistant. (Refer to the Description of Courses section of this catalog for specific course information.) For additional program information, see the appropriate department chairperson.

## THE SINGLE PARENTS AND HOMEMAKERS PROGRAM

This program is federally funded to assist eligible single parents and displaced homemakers to gain marketable skills through vocational education. Services include academic, career and personal counseling, referral networks, career/life planning seminars, financial aid,child care information, and self-development workshops.

A single parent is an individual who is unmarried or legally separated from a spouse; and has a minor child or children for which the parent has custody; or is pregnant.

A displaced homemaker is an individual who has worked primarily without pay to care for the home and family, and for that reason has diminished marketable skills; and has been dependent on public assistance or on the income of a relative but is no longer supported by such income.

For more information contact the Single Parents and Homemakers' Program in 'llima 103 at 734-9500.

## SERVICES FOR DEAF AND HARD-OF-HEARING STUDENTS

Students with hearing impairments may receive the following support services: admissions, orientation, and registration assistance; academic, personal, and career counseling by a counselor who uses American Sign Language; interpreters for any credit or noncredit class, workshop, or campus activity; notetakers; and tutors.

Special classes in basic Math and English are offered as neded to Deaf students who use American Sign Language, allowing students to reach their potential.

Any student who has a hearing impairment and can benefit from support services is eligible for assistance.

For more infeormation, call the Special Student Services Offices at 734-9552 V/TT, 'Ilima 104.

## INDEPENDENT STUDY

Opportunity is afforded in each of the areas in which credit courses are offered for individual and specialized group study. Individual study 299 V in any subject area, may be arranged by consulting with an appropriate instructor and by the completion of forms obtained from the department chairperson. Likewise, when a number of students are interested in the pursuit or a similar topic, special sections of a 199V, Specialized Group Studies, may be arranged through similar procedures.

The purpose of Individual and Specialized Group study is to offer students an opportunity to participate in the design and selection of learning experiences geared to their own interests, aptitudes and desired outcomes.

Individual and Specia lized Group Study should be appropriate to the student's program of study and related to the existing College curriculum. Individual and Specialized Group study may not be in a catalog-listed course.

The Specialized Group Study arrangement should not be more than six sludents without special authorization by the Dean of Instruction and should not be used as a substitute for cancelled class(es).

Registration of independent Study is not permitted during the regular registration period; this period should be used to formulate and write the study proposal in consultation with the instructor. Registration will not be permitted without the approved application and study proposal. Procedures to apply for Independent Study are on the application form which may be picked up from the academic department and offices.


Photo by Brock Pemberton Mobility aides, readers, notetakers andother assistance is provided by the Office of Special Student Services.

# Community Services 

## He waiwai nui ka lōkāhi.

 Unity is a precious possession.At Kapi'olani Community College, lifelong learning is more than a popular phrase. It is an approach and way of thinking that is threaded into the web of departments and services that make up the campus. The Office of Community Services is at the forefront of the lifelong learning movement, offering courses and programs that attract both the career-oriented and leisure learner.

The U.S. Department of Labor estimates that by the year 2000, a worker will change careers three times and change jobs at least seven. There is and will continue to be a strong need to train and retrain workers as technology and the needs of society change with increasing speed. It is not realistic to think that today's students can be trained in skills and offered knowledge that will serve a lifetime in the workforce.

While the majority of students enrolled in Office of Community Services courses and programs are career-oriented and attend classes that are job-related, there are many participants who attend for personal development and enrichment reasons. One of the Community Services' goals is to provide a forum for cultural activities, new ideas, and special programs highlighting the natural and cultural beauty that surrounds us.

The Office of Community Services offers to the public a wide array of seminars, workshops, and non-credit courses that are designed to meet the needs of Hawai $i$ i's employers in both the private and public sectors. In addition, customized training programs are provided to address the special demands of specific organizations or new trends. High quality, professional training opportunities are provided through several programs which include:

Computer Education. An extensive selection of short courses is continuously offered in word processing, spreadsheets, database management, desktop publishing and other state-of-the-art microcomputer programs. The non-credit computer training facility is an excellent setting for "hands-on" education with personalized instruction. Kapi'olani Community College has been designated an official AutoCAD training center and Novell Technology Institute Affiliate.

Business and Office Management. Geared toward providing

training for Oahu's private and public sector workforce, this program offers courses in supervisory skills, communication, estate planning, professional development and marketing. Other programs focus on accessibility standards, design and construction standards and workplace environment.

Healthtrack. Today's emphasis on health and wellness is reflected in this program's diverse offerings. Classes range from CPR to Medical Terminology to coping with stress. TheHealthtrack program also administers several large grants which provide training in the fields of home health aide, nurse aide, ward clerk and family caregiving.

Japanese Business, Language and Culture. This rapidly expanding program of classes focuses on all aspects of Japanese culture. Language classes are available for all ability levels from introductory to advanced. Business courses focus on the cultural aspects of entertaining, doing business, and developing relationships. Cultural programs include ikebana, bonsai, sashiko and sumo.

Program of Importing and Exporting. In today's global marketplace, importing and exporting is a growing field for entrepreneurs looking to expand markets for their goods and services. Courses focus on techniques, troubleshooting and tactics for success.

Culinary, Ethnic, and Fine Arts. Expanding public programs


Photo by Moriso Teraoka
Demonstrations by master chefs attract a wide audience. Here, Chef Yamadate of the Nagoya cooking school demonstrates the art of sushi making. Left, a closeup of one of his dishes.
enriching the cultural life of the community areunderway at Kapi'olani Community College. Non-credit courses in fine arts, recreation, language and local cuisine are available.

Interpret Hawai'i. Offering a wide array of courses, travel adventures, performances and tours, Interpret Hawai'i programs focus on the Islands' precious heritage. Interpretative Walking Tours give residents and visitors the opportunity to step back into Hawai i''s past and experience history.

Real Estate. Designated as a continuing education provider by the Hawai't Real Estate Commission, Community Services provides courses in real estate law/ethics, contracts, finance, landlord and tenant codes, appraisal and property management.

American Sign Language/Interpreter Education. Attempting to address the serious lack of qualified sign language interpreters in Hawai'i, this program offers a variety of non-credit courses in American Sign Language and Interpreting. Courses are also offered for working interpreters to upgrade and enhance their skills.

Senior Citizens. In cooperation with the Executive Office on Aging, the Office of Community Services offers specially designed short-term courses for resident senior citizens ( 60 years of age or older) encompassing health needs, legal services, culture and the arts, community tours and folklore preservation.

Diamond Head Focus. A free program offered to the community on Thursday evenings, Diamond Head Focus highlights a variety of topics of interest to Hawai'i's citizens.

Travelearn. TraveLearn is committed to serving sophisticated travelers who want to go beyond the "seeing" and "doing" of most commercial tour programs. Kapi'olani Community College is one of 80 colleges and universities across the nation which offer this unique study tour. For administrators, educators and the community, TraveLearn offers educational tours that promote professional devel-
opment and personal enrichment through on-site lectures, seminars and field excursions. Participants can travel to China, Eastern Europe, Egypt, Ireland and other countries in the company of knowledgeable, articulate and enthusiastic professionals who discuss the history, culture and current issues facing the people of those countries.

International Programs. One of the most successful and significant developments in the area of international education at Kapi'olani Community College has been the growth of cross-cultural programs where students in Asia, the Pacific and Hawaii are involved in student exchange programs. Each summer, Japan's Kansai University, Kansai High School and Ryukyu University send students to KCC to attend English as a Second Language courses and accompanying cultural social activities.

Visitor Industry Training. The visitor industry component of Community Services conducts professional development activities for housekeepers and culinary personnel seeking to upgrade their skills and work toward professional certificates and designations. A series of classes offered throughout the year enables full-time employees the opportunity to complete courses and receive designations within a one to two year timeframe.

The Gallaudet University Regional Center. The Gallaudet University Regional Center was established at Kapi'olani Community College in 1987 in cooperation with Gallaudet University. As an educational instifution and resource center that serves deaf and hard of hearing people around the world, Gallaudet provides a full range of academic, research and public service programs. The Regional Center in Hawai'i serves deaf and hard-of-hearing persons, their families and friends and professionals in the field by offering a broad variety of continuing education programs, informational resources and performances.

For more information on any of these programs, please call the Office of Community Services at 734-9211.


Photo by Moriso Teraoka
The recently renovated chapel is one of the original buildings of Fort Ruger, the U.S. Army installation formerly occupying the Diamond Head campus site. The building now houses the numerous programs of the Office of Community Services, including Diamond Head Focus, a free program dealing with issues of interest to the community.

## Program Curricula

## O ke kumu, o ka māna ho'opuka'ia. The teacher, the pupil - Let it come forth.

The college experience can be one of the most exciting adventures open to men and women ready to challenge themselves, their skills and their interests. Teachers and students engaged in the life of the mind - it is an encounter which shapes and enriches lives. The following degree programs, certificate programs, and courses are designed to meet your interests, provoke your curiosity and encourage you to reach your most outstanding potential.

## Business Education



## Carl Dughi, Department Chairperson

Instructors: Irmagard Davis; Kevin Dooley; John Duncan; Anne Niethammer; Lawrence Ikezaki; Kent Killam; Sandra Lai; David Nakamaejo; Carolyn Prough; Alfred Seita;Amy Shinoki; Tenny Tom; Dennis Vanairsdale; Donald Van Grieson
Telephone: 734-9310

## Accounting Curriculum

## Associate in Science Degree ( 60 Semester Credits)

This curriculum is designed to prepare students for entry level positions in the accounting profession both in government and private business.

The recommended courseofferings per semester areprogrammed to allow students exiting the program prior to completion to have attained the necessary competencies for entry level clerical positions such as payroll clerk, receivable/payable clerks and accounting clerk.

Students interested in trainferring to a four-year business college should consult with Pre-Business advisors.

Upon completion of the A.S. Degree program, students will have developed the necessary competencies for higher entry level positions such as bookkeepers and semi-professional accountants.

Upon successful completion of the Associate in Science Degree in Accounting program, students should be able to:
... Know various business documents and relate their use in the record keeping process.
... Operate a 10 -key adding machine or electronic calculator to solve practical business problems.
... Demonstrate proficiency in the computing, record keeping and reporting of payroll, its related taxes and general excise taxes for the State of Hawai'i.
Apply the principles, concepts and practices of record keeping for small service and merchandise entities organized as sole proprietorships.
... Apply the principles, concepts and practices of record keeping for partnerships and corporations.
... Demonstrate proficiency in the preparation of Federal and State tax returns for individuals and small businesses.
... Accomplish accounting using integrated general ledger software.
... Demonstrate an awareness of the legal, social, economic and technological implications affecting theenvironment in which business operates.
. . . Use computer spreadsheet software to work accounting problems.
First Semester Credits
*ACC24, Principles of Accounting I (or201) ..... 3
ACC 32, Payroll and Hawai'i General Excise Taxes ..... 3
BUS 20, Introduction to Business ..... 3
BUS 55, Computational Problems in Business ..... 3
ENG 160, Business and Technical Writing (or ENG 100) ..... 315
Second Semester
*ACC 25, Principles of Accounting II (or 202) ..... 3
ACC 34, Income Tax Preparation ..... 3
BUS 56, Advanced Computational Problems in Business ..... 3
OAT 20, Keyboarding ..... 3
Elective ..... 3
Third Semester
*ACC 26, Principles of Accounting III ..... 3
ACC 50, Using Computers in Accounting ..... 3
LAW 30, Business Law I (or 200) ..... 3
General Education Requirement ..... 3
Elective ..... 2

Fourth Semester
ACC 40, Intermediate Accounting 4
ACC 55, Spreadsheets in Accounting 3
** ACC 93V, Cooperation Education 3
General Education Requirement6

TOTAL CREDITS
*ACC 201 and 202 may be substituted for ACC 24, 25 and 26. Student should take an elective to make up the credit difference.
**Recommended Electives
(Either of the first two electives below may be substituted for the Co-op education requirement for the A.S. Degree)

ACC 37, Business Income Taxation
ACC 36, Cost Accounting

Note: A grade of "C" or better in all accounting courses is required for graduation.

## Certificate of Achievement ( 30 Semester Credits)

This curriculum is designed to prepare students for entry level positions such as bookkeepers or assistant bookkeepers.

Upon successful completion of the program, the student should be able to:
... Know various business documents and relate their use in the record keeping process.
... Operate a 10 -key adding machine or electronic calculator to solve practical business problems.
. . . Demonstrate proficiency in the computing, record keeping and reporting of payroll, its related taxes, and general excise taxes for the State of Hawai'i.
. . Apply the principles, concepts and practices of record keep ing for small service and merchandise entities organized as


Photo by Debbie Yaman Accounting students get assistance with their spreadsheets.
sole proprietorships.
Apply the principles, concepts and practices of record keeping for partnerships and corporations.
Demonstrate proficiency in the preparation of Federal and State tax returns for individuals and small businesses.
... Accomplish accounting using integrated general ledger and spreadsheet software.

First Semester Credits
ACC 24, Principles of Accounting I (or 201) 3
ACC 32, Payroll and Hawai'i General Excise Taxes 3
ACC 50, Using Computers in Accounting 3
BUS 55, Computational Problems in Business 3
ENC 197, Business and Technical Writing (or ENG 50)

Second Semester
ACC 25, Principles of Accounting II (or 202) 3
*ACC 26, Principles of Accounting III 3
ACC 34, Income Tax Preparation 3
ACC 55, Using Spreadsheets in Accounting 3
BUS 56, Advanced Computational Problems in Business
*Not required if ACC 202 is taken. Students should take an elective to make up the credit difference.
Note: A grade of "C" or better in all accounting courses is required for graduation.

## Certificate of Completion ( 15 Semester Credits)

This curriculum is designed to prepare students for entry positions such as payroll or accounts clerk.

Upon successful completion of the program, the student should be able to:
... Know various business documents and relate their use in the record keeping process.
... Operate a 10 -key adding machine or electronic calculator to solve practical business problems.
... Demonstrate proficiency in the computing, record keeping and reporting of payroll, its related taxes and general excise laxes for the State of Hawai'i.

First Semester
Credits
ACC 24, Principles of Accounting I (or ACC 201)
ACC 32, Payroll and Hawai'i General Excise Taxes
BUS 55, Computational Problems In Business 3
ENG 50, Writing for the World of Work (or ENG 160)
OAT 20, Keyboarding

Note: A grade of "C" or better in all accounting courses is required for graduation.

## Data Processing Curriculum

Students who are interested in pursuing a baccalaureate in Information and Computing Sciences or Management Information Sciences at UH-Mänoa should enroll in the Liberal Arts curriculum and takegeneral core courses numbered 100 or above. Contact the pre-ICS advisor at 734-9310/9317 for specific details.

## Associate in Science Degree ( 60 Credits)

This Programmer/Analyst program is designed to prepare students for employment as entry level programmers, operatorsi programmers and analysts.

Upon successful completion of the Associate of Science degree in the Data Processing program, the student should be able to:

Demonstrate an understanding of the functioning of a computer and its components.
... Complete an analysis of a business requirement including data collection, initial specification, documentation, file layout and program design.
. . . Program in COBOL, RPG, and DBASE those programs specified as part of a system analysis process.
... Use command language on various computers to create files, perform system functions, establish command programs, manipulate queues, sort files, list files, edit files, compile programs and set up job stream requirements.
Program systems requiring interactive update procedures, simultancous access to multiple database files and varied report generation.
... Describe the function and use of data communications in a data processing environment.
... Effectively communicate in written or oral form a system solution, its documentation and its training modules.
. . . Value quality work, have self discipline and be a responsible member of the profession.
Note: The following schedule is recommended for a full time student who is only attending school. If you are working, see a counselor or DP faculty member to develop a schedule with fewer credit hours per semester.

## First Semester

Credits
DP 101, Intro to Data Processing with Applications 3
DP 105, Computer Operations 3
DP 110, Intro to the Programming Process 3
ENG 160, Business/Technical Writing 3
MATH 25, Elementary Algebra II (or higher 3

## Second Semester

DP 113 Database Fundamentals 3
DP 155, Introduction to COBOL 3
DP 184, Networking and Data Communications 3
ACC 201, Elementary Accounting I 3
SP 151, Personal and Public Speech (or ENG 209)

TOTAL CREDITS

THIRD SEMESTER

DP 151X, Structured Programming in XBase

DP 156, Introduction to RPG ..... 3
DP 255, Advanced COBOL ..... 3
ACC 202, Elementary Accounting II ..... 3
Social Science Elective ..... 3
Fourth SemesterDP 256, Advanced RPG3
DP 270, Systems Analysis and Design ..... 3
DP 280B, Mainframe Applications ..... 3
HUM, Humanities Elective ..... 3
Natural Science Elective ..... 315
TOTAL CREDITS60

## EXIT POINT FOR ASSOCIATE IN SCIENCE DEGREE

Note: A grade of "C" or better is required to satisfy the prerequisites of any Data Processing course and in all Data Processing courses 10 fulfill the requirements for graduation.
*Any course except ICS 100

## Certificate of Completion (12 Credits)

The Certificate of Completion, Data Processing Programming Fundamentals, is a program of study requiring at least two semesfers. Its primary objective is to prepare students with the fundamental skills necessary to develop structured programs for business computer applications. The role of computer systems in business, hasic problem-solving skills and structured programming techniques are stressed. The curriculum will prepare students to implement program specifications in a microcomputer database Inanagement system, such as DBASE IV, FoxPro or RBASE and is recommended for students who wish to seek immediate employinent in entry-level positions requiring computing skills or students who require computing skills to supplement another chosen professional field.

Upon successful completion of the program the student should be able to:
... Demonstrate an understanding of the functioning of a computer and its components.
... Complete an analysis of a business requirement including data collection, initial specification, documentation, file lay out, and program design. Program in DBASE those programs specified as part of a system analysis process.
First Semester Credits
DP 101, Intro to Data Processing with Applications ..... 3
DP 110, Intro to the Programming Process ..... 3
DP 113, Database Fundamentals ..... 3
:econd Semester
DP 151X, Structured Programming in XBASE ..... 3
TOTAL CREDITS ..... 12

Note: A grade of " $C^{\text {" }}$ or better is required to satisfy the prerequisites of any Data Processing course and in all Data Processing courses to fulfill the requirements for graduation.

## Sales and Marketing Curriculum

## Associate in Science Degree ( 60 Semester Credits)

This program is designed for students who areplanning for a career in the field of merchandising/marketing. The competency-based curriculum is designed to prepare students for careers as assistant buyer, assistant department manager, and other basic merchandising/marketing training for possible advancement to management positions. Students interested in transferring to a four-year business college should consult with Pre-Business Program advisors.

Upon successful completion of the program, the student should be able to:
... Understand the fundamentals of business, its operations, and the impact of economic, political and social factors on American business organizations.
... Apply basic and advanced mathematics common to business and financial problems utilizing an electronic calculator.
... Display reading and speaking skills appropriate to the business community.
... Understand basic computer concepts and terminology and be computer literate in word processing, spreadsheet and database applications.
. . . Understand the importance of positive interpersonal relationships within the business environment.
. . . Apply basic principles, concepts, and practices of marketing to include product selection and development, market research, promotion, channels of distribution and pricing as they apply in a free enterprise economy.
... Demonstrate proficiency in a sales situation involving the preapproach, approach, sales presentation, sales resistance and objections and closing techniques.
... Understand the integration of personal selling and sales management including planning, organizing, developing and directing the sales force.
... Understand basic accounting procedures.
... Understand the broad principles of the American System of Jurisprudence as it relates to contracts, agency, personal property and business organizations.
... Apply the principles, concepts and practices of retailing in the operation and management of a retail establishment.
... Apply the principles of management and supervision of personnel.
... Recognize the importance of publicity and public relations integrating information to create a positive image.
... Manage the application of skills in areas of market research in advertising, selection of media, evaluation and testing of advertising effectiveness, and writing and designing of advertising copy.
... Apply the principles of good work ethic and sales and marketing concepts in a career-related profession.

## First Semester

Credits
BUS 20, Introduction to Business 3
BUS 55, Computational Problems in Business 3
ENG 160, Business and Technical Writing 3
ICS 100, Computing Literacy and Applications 3
SMKT 20, Principles of Marketing

## Second Semester

BUS 56, Advanced Computational Problems ..... 3
BUS 70, Human Relations in Business ..... 3
SP 151, Personal and Public Speaking ..... 3
SMKT 30, Principles of Retailing ..... 3
SMKT 50, Principles of Selling ..... 315
EXIT POINT FOR CERTIFICATE OF ACHIEVEMENT
Third Semester
ACC 201, Elementary Accounting ..... 3
LAW 200, Legal Environment of Business ..... 3
*General Education Requirement (Humanities) ..... 3
SMKT 52, Principles of Sales Management ..... 3
**Elective ..... 15
Fourth Semester
MCT 18, Introduction to Supervision ..... 3
SKMT 60, Principles of Advertising ..... 3
SMKT 93V, Coop Education ..... 3
General Education Requirement - (Natural Science) ..... 3
SMKT 66, Principles of Publicity and Public Relations ..... 15
TOTAL CREDITS ..... 60

Note: A grade of "C" or better is required in all SMKT courses for graduation.

* Phil 102 - Asian Traditions recommended
**Recommended electives:
ART 110, Computer Graphics 3
ASIA 100, Asian Perspectives 3
OAT 20, Keyboarding 3
BUS 25, Entrepreneurship 3
JOURN 175, Desktop Publishing 3
SMKT 60L, Advertising Lab 1
SMKT 80, International Marketing 3


Photo by Alex Coloma
Sales and Marketing students work on an ad campaign.

## Certificate of Achievement ( 30 Semester Credits)

The competency-based curriculum is designed to prepare students for positions such as stock clerk, receiving clerk, salesperson, display person, warehouseman and other entry level merchandising/marketing jobs. Upon successful completion of the program, the student should be able to:
... Understand the fundamentals of business, its operations and the impact of economic, political and social factors on American business organizations.
.. . Apply basic and advanced mathematics common to business and financial problems utilizing an electronic calculator.
... Display reading and speaking skills appropriate to the business community.
... Understand basic computer concepts, computer terminology, and be computer literate in word processing, spreadsheet, and database applications.
Understand the importance of positive interpersonal relationships within the business environment.
Apply basic principles, concepts and practices of marketing to include product selection and development, market research, promotion, channels of distribution and pricing as they apply in a free enterprise economy.
Demonstrate proficiency in a sales situation involving the
preapproach, approach, sales presentation, sales resistance and objections, and closing techniques.
... Apply the principles, concepts, and practices of retailing in the operation and management of a retail establishment.

## First Semester Credits

BUS 20, Introduction to Business 3
BUS 55, Computational Problems in Business 3
ENG 50, Writing for the World of Work 3
ICS 100, Computing Literacy and Applications 3
SMKT 20, Principles of Marketing 3
15

## Second Semester

BUS 56, Advanced Computational Problems 3
BUS 70, Human Relations in Business 3
SP 51, Oral Communications Techniques 3
SMKT 30, Principles of Retailing 3
SMKT 50, Principles of Selling $\quad 3$

TOTAL CREDITS
Note: A grade of "C" or better is required in all SMKT courses for graduation.


Photo by Alex Coloma
The Sales and Marketing class displays the ads that won the group first, second and third place awards in the Young Entrepeneurs
Seminar marketing contest. The seminar was sponsored by the Small Business Administrations and Small Business Hawai'i.

# Food Service and Hospitality Education 

pyive

Gladys Sato, Department Chairperson
Instructors: Gilbert Ammons; Milton Arellano; Robert Chinen; Kusuma Cooray; Edward Fernandez; Ernst Hiltbrand; Frank Leake; Robert Meyer; Ronald Takahashi; Ron Umehira; Lori Yonemori
Telephone: 734-9485

## PROGRAMS:

- Certificates of Completion

Culinary Arts
Patisserie
Dining Room Service
Hotel Operations

- Associate in Science Degree in Food Service with options In:

Culinary Arts
Patisserie
School Food Service
Health Care

- Associate in Science Degree in Hotel Operations

FOOD SERVICE CURRICULA

## FOOD SERVICE - CULINARY ARTS Certificate of Completion (17 semester credits)

The Certificate of Completion, Culinary Arts is a one-semester program of study. Its primary objective is to prepare sludents for entry-level jobs in hote!, restaurant, cafeteria, and coffee shop kitchens. Basic technical cooking skills, the development of proper work habits and attitudes and professionalism, and the practice of safety and sanitation procedures are stressed. This program is recommended for students who wish to seek immediate employment in entry-level food preparation positions (i.e., cook's helper, kitchen help, fry cook).

Upon successful completion of the Certificate of Completion program of study, the student should be able to:
... Practice the tenets of the Culinarian's Code in daily worklife.
... Identify the functions, job titles, work requirements and operating procedures of the food, lodging, and transportation components of the hospitality industry.
... Determine the job qualifications, attitudes, work habits, and personal qualities necessary to function satisfactorily with other individuals and in organizations in the hospitality industry.
... Make informed decisions regarding job placement and career development in the hospitality industry.
... Apply the fundamental concepts and demonstrate the basic skills and techniques of cookery in the preparation of stocks,
soups and sauces; meats, fish and poultry; fruits, vegetables and starches.
. Apply the fundamental skills and techniques of cookery to short order and quantity cookery.
. . Maintain the work area and equipment in accordance with standards of safety and sanitation and demonstrate the proper use and care of equipment and supplies.
... Apply with accuracy, computational skills in food preparation.

## First Semester

Credits
FSHE 100, Foundations of Guest Services
FSHE 103, Sanitation and Safety
FSHE 110, Fundamentals of Cookery
FSHE 119, Intermediate Cookery 5
MATH 50H, Technical Math/Food Service
(or a higher level math)
TOTAL CREDITS

## FOOD SERVICE - PATISSERIE

## Certificate of Completion ( 18 semester credits)

The Certificate of Completion, Patisserie is a one-semester program of study. Its primary objective is to prepare students for entrylevel jobs in bakeries, hotel kitchens or patisseries. Technical baking skills, the development of proper work habits attitudes, professionalism and the practice of safety and sanitation procedures are stressed. This program is recommended for students who wish to seek immediate employment in entry-level baking positions.

Upon successful completion of the Certificate of Completion program of study, the student should be able to:


A Food Service student picks basil from the campus herb garden (see photo on next page) which provides an assortment of exotic Asian and other herbs.
. . . Practice the tenets of the Culinarian's Code in daily worklife. . . Identify the functions, job titles, work requirements and operating procedures of the food, lodging and transportation components of the hospitality industry.
Describe the job responsibilities of a pastry chef, baker, pastry cook and pastry helper.
Determine the job qualifications, attitudes, work habits and personal qualities necessary to function satisfactorily with other individuals and in organizations in the hospitality industry.
Make informed decisions regarding job placement and career development in the hospitality industry.
Maintain the work area and equipment in accordance with standards of safety and sanitation and demonstrate the proper use and care of the equipment and supplies.
Apply with accuracy, computational skills in food preparation and the conversion of recipes.
. . . Apply the fundamental concepts of baking and demonstrate the basic baking skills and techniques in preparing bakery items such as quick breads, yeast breads, rolled-in dough, pies, cakes, puddings and pastry creams.
Apply advanced techniques in the preparation of gourmet specialities in breads, puff pastry, paté a choux, international pastries, petite fours, gateaux, Bavarian creams, souffles and ice cream desserts.
. . . Decorate cakes.

## First Semester

Credits
FSHE 100, Foundations of Guest Services 3
FSHE 103, Sanitation and Safety 2
FSHE 122, Fundamentals of Baking 5
FSHE 222, Patisserie 5

MATH 50H, Technical Math/Food Service
(or a higher level math)
TOTAL CREDITS

## DINING ROOM SERVICE

## Certificate of Completion (16 semester credits)

The Certificate of Completion, Dining Room Service a one-
semester program of study. Its primary objective is to prepare students to work in hotel dining rooms, banquet facilities, restaurants, and coffee shops. Dining room service and supervision techniques, sanitation and safety procedures and the development of proper work habits, service attitudes, and effective communication skills are stressed. This program is recommended for students who wish to seek immediate employment as waiters/ waitresses, host/hostesses and bushelp.

Upon successful completion of the Certificate of Completion program of study, the student should be able to:
. . . Practice the tenets of the Culinarian's Code in daily worklife. . . . Identify the functions, job titles, work requirements and operating procedures of the food, lodging, and transportation components of the hospitality industry.
. . . Determine the job qualifications, attitudes, work habits, and personal qualities necessary to function satisfactorily with other individuals and in organizations in the hospitality industry.
. . . Make informed decisions regarding job placement and career development in the hospitality industry.
. . . Demonstrate knowledge of a variety of table service tech-
niques and correctly serve guests using the various styles.
. . Demonstrate knowledge of stewarding functions.
... Maintain the work area and equipment in accordance with standards of safety and sanitation and demonstrate the proper use and care of the equipment and supplies.
... Demonstrate the essential personal qualities, technical and service skills, and job attitudes required of food waithelp and bushelp.
... Perform with accuracy, computational skills as required in the hospitality industry and in life experiences.

## First Semester

Credits
FSHE 100, Foundations of Guest Services 3
FSHE 103, Sanitation and Safety 2
FSHE 128, Dining Room Service/Stewarding Procedures 4
FSHE 228, Dining Room Supervision
4
MATH 50H, Technical Math/Food Service (or a higher level math)

TOTAL CREDITS


Photo by Moriso Teraoka

# Associate in Science Degree in Food Service 

## FOOD SERVICE - CULINARY ARTS

## Associate in Science Degree (64-66 semester credits)

The Associate in Science Degree, Culinary Arts is a four semester and one summer session program of study. This program option is designed for students who are interested in becoming professional cooks and cheis. This program provides students a solid foundation in concepts, skills and techniques in cookery; it exposes them to the principles of menu planning, equipment use and maintenance and station organization through mise en place.

The program offers students opportunities to adapt these fundamental skills to create new and original cuisines of the world in a true classical manner and with the ability to incorporate current cuisine trends. The strength of the Culinary Arts program is the reinforcement of the theories learned in class in a hands-on laboratory setting in the College's restaurant, cafe and cafeteria.

Upon successful completion of the four semester and one summer session A.S. Degreeprogram, in addition to demonstrating his/her mastery of the competencies required for the Certificate of Completion in the Culinary Arts, the student should be able to:
. . . Demonstrate knowledge of the culinary traditions, specialties and techniques of Asian/Pacific cuisines by applying the techniques unique to these cuisines and using the ingredients indigenous to the respective countries.
... Refine, perfect and expand techniques learned in the various culinary arts courses to combine and create a marriage of flavors of the various cuisines of the world and create new dishes and other styles of cooking.
... Demonstrate station organization with emphasis on mise en place and coordination resulting in prompt, efficient production and service.
. . . Demonstrate knowledge of a variety of table service techniques and of the various stewarding functions.
... Apply sound nutrition principles to menu planning, food preparation and storage procedures so as to maximize nutrient retention and promote and control the use of nutrients that promote health and nutrition.
... Utilize menu planning principles as an effective management tool to plan production, scheduling and merchandising.
... Insure the efficiency of an operation by the proper selection, use and maintenance of equipment.
. . . Demonstrate the proper procedures for ordering, receiving, storing, issuing and controlling foods, beverages and other related supplies, and utilize an established computerized cost control system to generate financial and control reports.
... Identify the managerial functions of planning, organizing, staffing, directing, and controlling to bring about organizational effectiveness.
... Demonstrate the ability to communicate clearly in speaking and writing.
. . . Apply the knowledge gained from all the prerequisite courses to operate and manage an on-campus food service operation as a profit center.

Students choosing to continue in the A.S. Degree program in Food Service with an Option in Culinary Arts must complete the Certificate of Completion in Culinary Arts with a 2.0 G.P.A. or better.

| First Semester | Credits |
| :--- | ---: |
| FSHE 100, Foundations of Guest Services | 3 |
| FSHE 103, Sanitation and Safety | 2 |
| FSHE 110, Fundamentals of Cookery | 4 |
| FSHE 119, Intermediate Cookery | 5 |
| MATH 50H, Technical Math/Food Service |  |
| (or a higher level math) |  |

## PROGRAM EXIT POINT FOR CERTIFICATE OF COMPLETION

## Second Semester

FSHE 214, International Cuisine 5
FSHE 122, Fundamentals of Baking 5
ENG 100, Expository Writing
or ENG 160, Business and Technical Writing 3
SP 151, Personal and Public Speech
or COMUN 145, Interpersonal Communication $\quad 3$

## Summer Session

Social Science or Humanities Requirement 3

## Third Semester

FSHE 240, Hospitality Purchasing 3
FSHE 241, Hospitality Cost Control 4
FSHE 210 or 211 , Asian/Pacific I or II 5
Social Science or Humanities Requirement $\quad 3$

## Fourth Semester

FSHE 128, Dining Room Service/Stewarding 4
FSHE 290, Hospitality Management 3
FSHE 285, The Science of Human Nutrition 3

+ Recommended options $\quad 3-5$

TOTAL CREDIT

+ Recommended Options
FSHE 210, Asian Pacific I or 211 Asian Pacific II 5
*FSH E 245, Beverage Operations 3
*FSHE 283, Garde Manger 3
*FSHE 288, Menu/EquipmenVLayout 3
FSHE 294, Food Service Practicum 5
*Required for American Culinary Federation certification


Photo by Moriso Teraoka
Chocolate, white and dark, fit for a sweetheart.

## FOOD SERVICE - PATISSERIE

## Associate in Science Degree ( 62 semester credits)

The Associate in Science Degree, Patisserie is a four semester program of study. This program option is designed for students who are interested in becoming professional bakers and pastry chefs. It offers an in-depth study of the fundamentals of baking, patisserie and confisserie skills. The baking and confisserie laboratory provides the students with the opportunity to apply and practice their skills.

Upon successful completion of the four semester A.S. Degree program, in addition to demonstrating mastery of the competencies required for the Certificate of Completion in Patisserie, the student should be able to:

Prepare confectionery specialities using chocolate, sugar and marzipan and produce items such as caramels, nougats, fondants, ganache, gianduja, molded marzipans, pastillage, etc. Identify, operate safely and properly maintain equipment that is typically used in a confisserie such as: candy-making ranges, tools, thermometers, copper kettles, chocolate tempering equipment and other hand tools used in preparing candy.
. . . Demonstrate knowledge of a variety of table service techniques and of the various stewarding functions.
... Utilize menu planning principles as an effective management tool to plan production, scheduling and merchandising.
... Demonstrate the proper procedures for ordering, receiving, storing, issuing and controlling foods and supplies and utilize an established computerized cost control system to generate financial and control reports.
... Identify the managerial functions of planning, organizing, staffing, directing, and controlling to bring about organizational effectiveness.
. . Demonstrate the ability to communicate clearly in speaking and writing.
Students choosing to continue in the A.S. Degree program in Patisserie must complete the Certificate of Completion in Culinary Arts with a 2.0 G.P.A. or better

FSHE 100, Foundations of Guest Services 3
FSHE 103, Sanitation and Safety 2
FSHE 122, Fundamentals of Baking 5
FSHE 222, Patisserie 5
MATH 50H, Technical Math/Food Service
(or a higher level math)
Second Semester
FSHE 128, Dining Room Service/Stewarding Procedures 4
FSHE 110, Fundamentals of Cookery 4
ENC 100, Expository Writing 3
or ENG 160 , Business and Technical Writing
SP 151, Personal and Public Speech or COMUN 145, Interpersonal Communication $\quad 3$

Third Semester
FSHE 224, Confisserie
5
FSHE 240, Hospitality Purchasing 3
FSHE 241, Hospitality Cost Control 4
Social Science or Humanities Requirement _ 3
Fourth Semester
FSHE 290, Hospitality Management 3
FSHE 288, Menu/Equipment/Layout 3
FSHE 285, The Science of Human Nutrition 3
Humanities Requirement 3
Recommended electives $\quad 3$

TOTAL CREDITS

Recommended Electives:
FSHE 119, Intermediate Cookery (5)
FSHE 214, International Cuisine (5)
FSHE 210 or 211, Asian/Pacific Cuisine (5)
FSHE 245, Beverage Operations (3)
FSHE 283, Garde Manger (3)
FSHE 294, Food Service Practicum (5)


Photo by Moriso Teraoka
A pastillage piano, created with gelatin, powdered sugar, cornstarch and cream of tartar, entered in the Culinary Arts show.

# Food Service Management 

## FOOD SERVICE - HEALTH CARE Associate in Science Degree ( 64 semester credits)

## FOOD SERVICE - SCHOOL FOOD SERVICE Associate in Science Degree (63-65 semester credits)

The Associate in Science Degree, Food Service Management requires four semesters and one summer session to complete the program of study. It offers students two options.

The Health Care option allows students to concentrate on developing the skills needed to manage the food service operation in a hospital, nursing home, life care center or other health care facilities. This AS degree also prepares students for transfer into a four-year Food Science and Human Nutrition program.

The School Food Service option allows students to concentrate on developing skills needed to manage the food service operation in a school, college or industrial cafeteria. Upon successful completion of this AS degree program, the student should be able to:

Practice the tenets of the Culinarian's Code in Daily worklife.
. . Identify the functions, job titles, work requirements and operating procedures of the food, lodging and transportation components of the hospitality industry.
... Determine the job qualifications, attitudes, work habits and personal qualities necessary to function satisfactorily with other individuals and in organizations in the hospitality industry.
Make informed decisions regarding job placement and career development in the hospitality industry.
Maintain the work area and equipment in accordance with standards of safety and sanitation and demonstrate proper use and care of equipment and supplies.


Photos by Moriso Teraoka
Food Service instructors and students get in the mood of the Journey Through India night, held as part of the International Festival Week festivities.

Apply the fundamental concepts and demonstrate the basic skills and techniques of cookery in the preparation of stocks, soups and sauces; meats, fish and poultry; fruits, vegetables and starches.
Apply the fundamental skills and techniques of cookery to short order and quantity coukery.
Adapt the concepts and techniques learned in European, Asian/Pacific and American regional cuisines to provide variations in institutional menus.
Utilize menu planning principles as an effective management tool to plan production scheduling and the selection, use and maintenance of equipment for an efficient operation.
Demonstrate the proper procedures for ordering, receiving, storing, issuing and controlling foods and supplies and utilize an established computerized cost control system to generate financial and control reports.
Apply sound nutrition principles to menu planning food preparation, and storage procedures so as to maximize nutrient retention and promote and control the use of nurients that promote health and nutrition.
. . . Insure the efficiency of an operation by the proper selection, use and maintenance of equipment.
... Utilize computational and computer skills as required in the management of food service operations.
... Identify the managerial functions of planning, organizing, staffing, directing and controlling to bring about organizational effectiveness.

. . . Demonstrate the ability to communicate clearly in speaking and writing.

In addition, the student choosing the School Food Service option should be able to:
. . . Describe the types of food services offered through the Department of Education in Hawai'i.
. . . Describe the meal patterns used in menu planning in School Food Service and explain why these patterns were developed.
... Using the U.S.D.A. and Hawai'i Buying Guide, calculate the quantities of food to be purchased and used in serving school meals.
. . . Adjust central menus to accommodate available Federal commodities.
... Use the forms developed for School Food Service recordkeeping.
. . . Utilize the Department of Education School Lunch Hand-book to implement operational functions in a school food service facility.

Students choosing the Health Care options should be able to:
... Apply principles of diet therapy to modify routine diets, using the Hawai'i Dietetic Association Diet Manual as a guide.
... Demonstrate an understanding of various disease conditions so that they can effectively meet the nutritional needs of the patients and when necessary modify their food intake.
... Demonstrate the ability to write a nutritional assessment and care plan.
... Direct the preparation of meals with dietary modifications.
First Semester ..... Credits
FSHE 100, Foundations of Guest Services ..... 3 ..... 3
FSHE 103, Sanitation and Safety ..... 2
FSHE 110, Fundamentals of Cookery ..... 4
FSHE 119, Intermediate Cookery ..... 5
MATH 25, Elementary Algebraor higher
TOTAL CREDITS17

## PROGRAM EXIT POINT FOR CERTIFICATE OF COMPLETION

Students must complete the first semester with a C.P.A. of 2.0 or higher in order to continue on to the second semester.

| Second Semester |  |
| :--- | ---: |
| FSHE 214, International Cuisine | 5 |
| FSHE 240, Hospitality Purchasing | 3 |
| FSHE 241, Hospitality Cost Control | 4 |
| ENG 100, Expository Writihg |  |
| or ENG 160 BUS/TECH Writing |  |
| Social Science Requirement | 3 |
|  | 3 |
| Summer Session | 18 |
| SP 151, Personal and Public Speech |  |
| or COMUN 145, Interpersonal Communications | 3 |
| Humanities Requirement | 3 |
|  | 6 |

Third Semester
FSHE 122, Fundamentals of Baking ..... 5
$\dagger$ Recommended Options ..... 3-5
FSHE 285, The Science of Human Nutrition ..... 3
FSHE 288, Menu/EquipmenVLayout ..... 3

## Fourth Semester

School Lunch OptionFSHE 290, Hospitality Management ..... 3
FSHE 281, Sch. Food Serv. Rec. Kpg. ..... 2
FSHE 293C, Sch. Food Serv. Internship ..... 3
TOTAL CREDITS ..... 63-65
Fourth Semester
Health Care Option
FSHE 290, Hospitality Management ..... 3
FSHE 286, Therapeutic Nutrition ..... 3
FSHE 293D, Health Care Internship ..... 9
TOTAL CREDITS ..... 64

+ Recommended Options
FSHE 210, Asian Pacific I or 211 Asian Pacific II ..... 5
*FSHE 245, Beverage Operations ..... 3
*FSHE 283, Garde Manger ..... 3
FSHE 294, Food Service Practicum ..... 5
*Required for American Culinary Federation certification
Hotel Operations Curriculum


## Certificate of Completion ( 16 semester credits)

The Certificate of Completion, Hotel Operations is a onesemester program of study. This program will allow students to exit with the job skills necessary to qualify for entry-level positions in hotel housekeeping/laundry departments and in the front office/ uniformed services departments. Development of housekeeping and front office technical skills, appropriate business math and communication skills, as well as the development of guest relations techniques, service attitudes and professionalism are stressed. This program is recommended for students who wish to seek immediate employment as reservationists, hotel maids/ housekeepers, laundry workers, hotel front desk clerks, PBX operators, uniformed services personnel, and concierge.

Upon successful completion of the first semester's program of study, the student will be able to:
... Identify the functions, job titles, work requirementsand operating procedures of the food, lodging and transport tion components of the hospitality industry.
... Determine the job qualifications, altitudes, work habits, and personal qualities necessary to function satisfactorily with
other individuals and in organizations in the hospitality industry.
... Make informed decisions regarding job placement and career development in the hospitality industry.
... Recognize the interrelationships between the front office and other departments in a hotel.
. . . Implement guest-satisfying procedures and techniques through an understanding of guest needs, personal qualities and operational requirements.
... Demonstrate safe, sanitary and efficient cleaning procedures in performing various housekeeping tasks.
... Identify effective housekeeping equipment selection, storage, maintenance and control procedures.
... Demonstrate computer proficiency in reservations, check-in, posting, settlement, and night audit functions of the front office.
... Demonstrate effective telephone-call handling and complaint handling techniques.

## First Semester

$$
\text { FSHE 100, Foundations of Guest Services } 3
$$

FSHE 103, Sanitation and Safety 2
FSHE 120, Housekeeping Operations 4
FSH E 152, Front Office Operations 4
MATH 25, or higher _ 3

## TOTAL CREDITS

## PROGRAM EXIT POINT FOR CERTIFICATE OF COMPLETION

Students must complete the first semester with a G.P.A. of 2.0 or higher in order to continue on to the second semester.

## Associate in Science Degree ( 64 semester credits)

The Associate in Science, Hotel Operations is a four-semester program of study. The program is designed to help students acquire both the knowledge and practical skills necessary to successfully qualify for work in various capacities in hotels and motels and to transfer to a four year program. It prepares students for employment in hotel and resort front office, concierge, reservations, housekeeping, sales positions and uniformed services. The program also prepares students for transfer to a four-year travel industry management program.

Upon successful completion of the four-semester A.S. degree program, in addition to demonstrating mastery of the competencies required for the Certificate of Completion, the student should be able to:
... Accurately perform various accounting tasks performed in a hotel/restaurant operation and prepare and analyze financial statements and management reports.
. . . Identify the principles of marketing, menu planning, food preparation and service styles, nutrition, and sanitation and safety principles as they apply to food and beverage management in a hotel setting.
. . . Demonstrate the proper procedures for ordering, receiving,
storing, issuing and controlling foods and supplies and utilize an established computerized cost control system to generate financial and control reports.
... Apply the principles and mechanics of hospitality marketing by developing a hotel marketing and sales plan for marketing meetings, meals in food and banquet services and hotel accommodations.
Identify the managerial functions of planning, organizing, staffing, directing and controlling to bring about organizational effectiveness.
.. Demonstrate the ability to communicate clearly in speaking and writing.
.. Perform various tasks in the functional areas of a hospitality organization.

## First Semester

| FSHE 100, Foundations of Guest Services | 3 |
| :--- | :--- |
| FSHE 103, Sanitation and Safety | 2 |
| FSHE 150, Housekeeping Operations | 4 |
| FSHE 152, Front Office Operations | 4 |
| MATH 25 or higher |  |
| To meet transfer requirements |  |

To meet transfer requirements

## Second Semester

FSHE 101, Introduction to Hospitality Industy 3
FSHE 154, Food and Beverage Systems 4
ENG 100, Expository Writing
or ENG 160, Business/Technical Writing 3
SP 151, Personal and Public Speech 3
Social Science Requirement $\quad 3$
Summer Session
FSHE 193, Hotel Operations Internship 4
(or FSHE 128, Dining Room Service/Stewarding)
Third Semester
FSHE 128, Dining Room Service/Stewarding or 4
FSHE 193, Hotel Operations Internship 4
FSHE 241, Hospitality Cost Control 4
FSHE 258, Hotel Marketing and Sales 3
FSHE 290, Hospitality Management 3
*Recommended Options _ 3

## Fourth Semester

FSHE 293E, Hotel Operations Internship 3
FSHE 285, The Science of Human Nutrition 3
Humanities Requirement 3
*Recommended options $\quad 6$

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## Health Education


#### Abstract

Students admitted to any of the health education programs are required to purchase professional liability insurance prior to registration for the program courses. Information regarding liability insurance is sent to students with acceptance information.

Health Education has long been an important and integral part of the College. Because of the growing awareness and concern in health and interest in health career education, the College has expanded its program and curricula. Currently, Health Education at the College is composed of three departments: Allied Health, Nursing, and Emergency Medical Services. In addition, the Natural Science Department offers many courses of a biomedical nature, developed specifically to meet the needs of students enrolled in health programs. These departments, along with their instructors and programs, are described below.


## Emergency Medical Services Department



Edward Kalinowski, Department Chairperson
Dale Oda, M.D., Graham Billingham, M.D., Medical Directors Instructors: Carol Ah Yo; Roy Arakaki; Glenn Hamberg; Mary Kelso; Tim McCabe; John Saito; Barbara Brennan; Thomas Sodama
Telephone: 734-9288
Programs: Emergency Medical Technician Mobile Intensive Care Technician

## Emergency Medical Technician Program

## Certificate of Completion (18 Semester Credits)

The purpose of the Emergency Medical Technician program is to prepare students to provide basic life support to patients in the pre-hospital emergency care setting.

Upon successful completion of the Emergency Medical Technician Program, the student should be able to:
... Perform in an entry-level position as an Emergency Medical Technician.
. . . Safely and accurately perform all basic life support procedures as listed in Board of Medical Examiners rules for Emergency Ambulance Personnel.
Establish rapport with the patient and significant others to decrease their state of crisis.
... Participate as a team member with another Emergency Medical Technician or under the direction of a Mobile Intensive Care Technician to ensure the safety and care of the patient.
... Recognize a medical emergency, assess the situation, obtain a basic history and physical examination, manage emergency care, and, if needed, extricate the patient.
... Initiate and continue emergency medical care including the
recognition of presenting conditions and initialion of appropriate non-invasive treatments for: surgical, medical, cardiac and psychiatric emergencies; trauma; and airway and respiratory problems.
... Assign priorities of emergency treatment to a patient or group of patients.
... Participate in the pre-check and preparation of the ambulance, including its equipment and supplies.
... Communicate with the medical care facility receiving the patient about the patient's condition, status and arrival time.
. . . Record in writing the details related to the patient's emergency care and the incident.
... Coordinate efforts with those of other agencies that may be involved in the care and transportation of the patient.
... Direct and coordinate the transport of the patient by selecting the best available method(s) in conjunction with medical command authority/protocol.
. . . Safely drive an emergency ambulance, with consideration to patient and road conditions, to reach the patient and take the patient to an appropriate medical care facility.
... Participate in continuing education activities for self-improvement and quality assurance.
. . . Use a sequential thinking process to gather the appropriate data, appraise its significance, take action and evaluate the effects of that action upon the patient.

## Mobile Intensive Care Technician Program

## Associate in Science Degree ( 72 Semester Credits)

The purpose of the Mobile Intensive Care Technician program is to prepare students to provide advanced life support functions to patients in the pre-hospital emergency care setting.

Upon successful completion of the Mobile Intensive Care Technician program, the student should be able to perform all competencies required of an Emergency Medical Technician, and in addition, should be able lo:
... Perform in an entry-level position as a Mobile Intensive Care Technician.
. . . Safely and accurately perform all advanced life support procedures as listed in Board of Medical Examiners rules for Emergency Ambulance Personnel, including:

- perform a history and physical examination to assess illness or degree of injury.
- perform advanced cardiac life support procedures.
- administer medications by the oral, sublingual, subcutaneous, intramuscular, intracardiac, intravenous, and/ or endotracheal routes to treat specific medical problems.
- perform tracheal intubation.
- perform electrocardiograms, interpret life threatening arrhythmias, and recognize abnormalities.
- perform defibrillation and cardioversion.
- perform closed chest needle thoracostomy.
- insert nasogastric tubes and perform gastric lavage.
- perform pericardiocentesis.
- perform cricothyroid needle insertion.
- perform direct laryngoscopy for forcep removal of foreign body.
- perform techniques for reflex vagocardiac stimulation.
... Initiate and continue emergency medical care under medical control including the recognition of presenting conditions and initiation of appropriate invasive and non-invasive treatments for: surgical, medical, cardiac and psychiatric emergencies; trauma; and airway and respiratory problems.
... Take a leadership role with ambulance, first responder and other personnel to ensure the safely and care of the patient.
. . Communicate data to the designated medical command authority and carry out medical orders for the patient.
... Exercise personal judgment in case of interruption in medical direction caused by communication failure or in cases of immediate life threatening conditions; under these conditions, provide such emergency care as has been specifically authorized by approved standing orders.
... Participate in continuing education activities for self-improvement and for the education of others within the field, including following up on selected cases for education and quality assurance.


## Certificate of Completion in Emergency Medical Technician and <br> Associate in Science Degree in Mobile Intensive Care Technician

First SemesterCreditsEMT 100, Pre-hospital Emergency Care9
EMT 101, Pre-hospital Emergency Care Practicum ..... 3
BIOL 130, Anatomy and Physiology ..... 4
BIOL 130L, Anatomy Laboratory ..... 1
HLTH 125, Survey of Medical Terminology ..... 1
TOTAL CREDITS18
EXIT POINT FOR CERTIFICATE OF COMPLETION PROGRAM FOR EMERGENCY MEDICAL TECHNICIANS

Student wishing to enter the Mobile Intensive Care Technician sequence of courses would be required to have: 1) work experience as an EMT, or 2) EMT Internship credits. The EMT internship will be offered as an optional course (EMT 110, Emergency Medical Technician Internship, variable credits up to 6 per semester) for those students who wish to enter the MICT program, but do not have employment on an emergency ambulance. This course will be offered all semesters, including summer session.

Note: All students admitted to the EMT program must have current First Aid or equivalent experience and a BCLS card no later than the second week of instruction.

## Second Semester (Spring)

Credits
MICT 150, Pre-hospital Assessment and Treatment I 10
ENG 100, Expository Writing 3
MATH 25 or above $\quad 3$

Summer Session ( 8 weeks)
MICT 160, Pre-hospital Assessment and Treatment II
Humanities (course numbered 100 or above) $\quad 3$

Third Semester (Fall)
MICT 200, Advanced Pre-hospital Assessment and Treatment5

MICT 201, Pre-hospital Assessment and Treatment Clinical Experience
MICT 202, Pre-hospital Assessment and Treatment Internship I
*FAMR 230, Survey of Human Growth and Development 3. 16

Fourth Semester (Spring)
MICT 250, Pre-hospital Assessment and Treatment Internship II


MICT students practice immobilizing checking vital signs of an accident victim during a role-playing session.

## Allied Health Department



Sanae Moikeha, Department Chairperson
Instructors: Marcia Armstrong; Roland Clements; Lynn Hamada; Thomas Harrer; Ann Kadoguchi; Marilyn Miller; Kenneth Mito; Harry Nakayama; Carol Paul-Watanabe; Sally Pestana; Carolyn Tani; Stephan Wehrman; Joan Young
Telephone: 734-9272
Programs: Dental Assisting
Medical Assisting
Medical Laboratory Technician
Occupational Therapy Assistant
Phlebotomy
Physical Therapist Assistant
Radiologic Technology
Respiratory Care Technician
Respiratory Therapist

## Dental Assistant Curriculum

## Certificate of Completion (16 Semester Credits)

This curriculum is designed to prepare students for employment in private dental offices, hospitals, out-patient clinics, eleemosynary institutions, State and Federal agencies, insurance companies and dental supply houses. Students are trained in basic dental operatory and laboratory skills and in dental office and business procedures.

Upon satisfactory completion of the Dental Assisting program, students should be able to:
... Assist at the chair in diagnostic, operative, surgical , periodontal, preventive, orthodontic, removable and fixed prosthodontics, endodontic and pediatric dentistry procedures.
... Assist in the management of medical and dental emergencies and administer basic life support procedures, when indicated.
... Perform clinical supportive functions, including preparing and dismissing patients, manipulating dental restorative and impression materials and dental cements, sterilizing instruments and disinfecting equipment, providing postoperative instructions prescribed by the dentist and preparing tray setups.
.. Expose, process and mount radiographs of such quality as to be clinically acceptable for diagnostic purposes according to standardized techniques and procedures.
Complete laboratory procedures, including pouring, trimming and polishing study casts, fabricating custom impression trays from preliminary impressions, cleaning and pol-
ishing removable appliances and fabricating temporary restorations.
... Perform business office procedures, including telephone management, appointment control, receiving payment for dental services, completing third-party reimbursement forms, maintaining a supply inventory, and maintaining an active recall system.
... Exercise sound clinical judgment with awareness of values and attitudes as evidenced by appropriate performance in class, clinical and laboratory experiences.
... Demonstrate communication skills by interacting with patients and colleagues with ease and effectiveness.
... Provide oral health instruction including plaque control programs and basic dietary counseling.
... Participate effectively in public health programs and continue professional education.
. Abide by the professional code of ethics, know and abide by the state laws which are applicable to dentistry.

DENT 70, Essentials of Dental Assisting 3
DENT 70L, Essentials of Dental Assisting Lab 3
DENT 72, Dental Materials 1
DENT 72L, Dental Materials Lab 1
DENT 74, Dental Sciences 3
DENT 76, Dental Radiography 1
DENT 76L, Dental Radiography Lab 1
DENT 78, Clinical Rotations; Seminar _ 3
TOTAL CREDITS


Photo by Randall Ajimine
Dental Assisting student learns how to do $x$-rays.

Medical Assisting Curriculum

## Associate in Science Degree (62-66 Semester Credits)

## Certificate of Achievement (40-41 Semester Credits)

This program provides a career ladder in medical assisting. Students may enter in either fall or spring semester. Students may choose to exit at the end of two and a half semesters with a Centificate of Achievement. After one year of employment, certificate graduates will be eligible to write the certification examination of the American Association of Medical Assistants. Certificate graduates may also return to continue their course of study and earn an Associate in Science degree in medical assisting. An entering student may also choose to pursue the Associate in Science degree.

The Medical Assisting curriculum is designed to prepare students to assist physicians in private medical offices and clinics and hospital outpatient clinics with patient care as well as with routine office laboratory and diagnostic tests (clinical medical assisting). In addition, students are prepared to perform administrative medical office and business practices and procedures (administrative medical assisting).

The AS degree program has been accredited by the Council on Medical Education of the American Medical Association in collaboration with the American Association of Medical Assistants. Associate degree graduales are qualified to write the national certification examination of the American Association of Medical Assistants.

Upon completion of the Medical Assisting Program, the student should be able to:
... Function in the professional role of the Medical Assistant under direct supervision of a licensed physician.
... Perform clinical patient care skills safely while assisting the physician with examination and treatments.
. . Assist the physician in appraisal of the health status of patients through the application of diagnostic concepts and procedures, with prescribed diagnostic tests, follow-up care and treatment.
... Collect routine laboratory specimens for processing safely and following acceptable procedures.
... Perform routine office diagnostic tests and procedures accurately.
... Implement effective communication skills both written and oral, verbally and non-verbally, with patients, physicians and other allied health team professionals.
... Recognize ethical and legal responsibilities in patient management and in the physician's practice, adhering to legal and governmental safety standards for patient care and record maintenance.
... Apply the basic concepts of medical economics to analyze and evaluate situations involving the delivery of and payment for medical care services.
. . Recognize emergency situations and administer emergency first aid and cardiopulmonary resuscitation.

Function and demonstrate professional characteristics expected of a beginning praclicing Medical Assistant.
... Function effectively as an allied health team member in the delivery of quality patient care through knowledge and skill as a Medical Assistant.
First Semester ..... Credits
BIOL 22/130, Human Anatomy and Physiology ..... 3(4)
MEDAS 100, Introduction to Medical Assisting ..... 3
MEDAS 120, Clinical Medical Assisting ..... 2
MEDAS 120L, Clinical Medical Assisting Lab ..... 2
MEDAS 125, Clinical Medical Assisting Practicum ..... 1
HLTH 130, First Aid/CPR ..... 1
HLTH 110, Medical Terminology ..... 2
OAT 80, Machine Transcription I ..... 2
16(17)
Second Semester
MEDAS 140, Administrative Medical Assisting ..... 2
MEDAS 140C, Admin. Medical Assisting Lab ..... 2
MEDAS 145, Admin. Medical Assisting Practicum ..... 1
MEDAS 201 Medical Law and Ethics ..... 2
MLT I 00, Intro. to the Clinical Lab
HLTH 150, 152, Study of Disease ..... 3
PHARM 103, Intro to Pharmacology ..... 1
PHARM 104, Pharmacology of Common Drugs ..... 1
PHARM 105, Administering Medications OAT 83, Medical Transcription ..... 318
Summer or Third Semester ..... 5
MEDAS 215, Externship ..... 5
MEDAS 210, Seminar
MEDAS 210, Seminar ..... 6TOTAL CREDITS40
PROGRAM EXIT POINT FOR CERTIFICATE OF ACHIEVEMENT
Fourth Semester
COMUN 145, SP 151, ENG 100, or ENG 160 ..... 3
FAMR 230 or PSY 100 ..... 3
MEDAS 220, Clinical Medical Assisting Specialties ..... 2
MEDAS 2201, Clinical MEDAS Specialties Lab ..... 1
MEDAS 225, MEDAS Specialties Practicum ..... 1
Math requirement (BUS 55, MATH 25 or higher) ..... $\frac{3}{13}$
Fifth Semester
MEDAS 250, Cardiac Arrhythmias ..... 3
FSHE 185 or 285, Nutrition ..... 3
Humanities course over 100 for AS degree requirement ..... 3
Elective as needed for full-time status ..... 3

## A STUDENT WITH NO PREVIOUS TYPING COURSE WHO elects to enter the a.s. degree track directly WOULD ENROLLI IN A DIFFERENT SEQUENCE OF COURSES AS follows:

| First Semester | Credits |
| :--- | ---: |
| MEDAS 120, Clinical Medical Assisting | 2 |
| MEDAS 120L, Clinical Medical Assisting Lab | 2 |
| MEDAS 125, Clinical Medical Assisting Practicum | 1 |
| *BIOL 22/130, Human Anatomy and Physiology | $3(4)$ |
| OAT 20, Keyboarding | 3 |
| HLTH 130, First Aid/CPR | 1 |
| HLTH 110, Medical Terminology | 2 |
| MEDAS 100, Intro to Medical Assisting | 3 |
|  | $17(18)$ |

Second Semester
MEDAS 130, Administrative Medical Assisting MEDAS 130L, Admin. Medical Assisting Lab 2
MEDAS 135, Admin. Medical Assisting Practicum ..... 1
HLTH 150, 152, Study of Disease ..... 3
Math requirement (BUS 55, MATH 25 or 100) ..... 3
COMUN 145, SP 151, ENG 100 or ENG 160 ..... 3
OAT 80, Machine Transcription ..... 16
Third .Semester
MEDAS 201, Medical Law and Ethics ..... 2
MEDAS 220, Clinical MEDAS Specialties ..... 2
MEDAS 220L, Clinical MEDAS Specialties Lab ..... 1
MEDAS 225, Practicum ..... 1
PHARM 103, Intro to Pharmacology ..... 1
PHARM 104, Pharmacoiogy Of Common Drugs ..... 1
PHARM 105, Administering Medications ..... 1
OAT 83, Medical Transcription ..... 3
FAMR 230 or PSY 100 ..... 3
Humanities course over 100 for AS degree ..... 18
Fourth Semester
MEDAS 250, Cardiac Arrhythmias ..... 3
MEDAS 215, Externship ..... 5
MEDAS 210, Seminar ..... 1
MLT 100, Intro to Clinical Lab ..... 2
FSHE 185, Nutrition ..... 3
14
TOTAL CREDITS65(66)
Note: A grade of " C " or better must be maintained in all requiredcourses in order for the student to continue in the prgram. *BIOL 130 may be taken in place of BIOL 22; BIOL 130L is strongly recommended to accompany BIOL 130.

# Medical Laboratory Technician Curriculum 

## Associate in Science Degree (71 Semester Credits)

This curriculum is designed to prepare students to perform many laboratory procedures and to operate and care for laboratory equipment, under the general direction of a medical technologist, physician or biological scientist.

Graduates of this program will be eligible to write the national registry examination for MLT given by the American Society of Clinical Pathologists and/or the national examination for CLT given by the National Certification Agency for Medical Laboratory Personnel. When certified, the MLT graduate will meet the requirements to become licensed to work in the State of Hawai'i as a Medical Laboratory Technician.

Upon successful completion of this program, the student should be able to:
... Perform routine clinical laboratory procedures within acceptable quality control parameters in Hematology, Chemistry, Immunohematology and Microbiology under the general supervision of Medical Technologist or Pathologist.
. . . Demonstratetechnical skills, social behavior and professional awareness incumbent upon a laboratory technician as defined by the American Society for Medical Technology and the American Society of Clinical Pathologists.
... Effect a transition of information and experiences learned in the MLT program to employment situations and performance on the written examinations conducted by the American Society of Clinical Pathologists and/or the National Certifying Agency for Clinical Laboratory Personnel.
Apply systematized problem solving techniques to identify and correct procedural errors, identify instrument malfunctions and seek proper supervisory assistance and verify the accuracy of laboratory results obtained.
... Operate and maintain laboratory equipment, utilizing appropriate quality control and safety procedures.
... Perform within the guidelines of the code of ethics of the American Society for Medical Technology, the American Society of Clinical Pathologists and the restrictions established


Photo by Helen Hamada Students practice drawing blood from each other.
by state and local regulatory groups.
... Recognize and participate in activities which will provide current knowledge and upgrading of skills in laboratory medicine.


Note: A grade of "C" or better must be maintained in all required courses to continue in the program. A student who does not satisfactorily complete the required courses as sched uled must have program director's approval to continue in the program.
*Clinical courses conducted in affiliated community hospitals and laboratories.
**Must be in courses numbered 100 and above.

## Phlebotomy Curriculum

## Certificate of Completion (5)

Upon successful completion of this program, the student should be able to:
. . Demonstrate knowledge of the health care delivery system and medical terminology.
. . Demonstrate knowledge of infection control and safety.
.. Demonstrate basic understanding of the anatomy and physiology of body systems and anatomic terminology in order to relate major areas of the clinicallaboratory to general pathologic conditions associated with the body systems.
. . Demonstrate understanding of the importance of specimen collection in the overall patient care system.
. Demonstrate knowledge of collection equipment, various types of additives used, special precautions necessary and substances that can interfere in clinical analysis of blood constituents.
Demonstrate proper techniques to perform venipuncture and capillary puncture, performing a stated minimum number of successful unaided venipunctures, fingersticks and heel sticks using appropriate supplies for each sample.
. . Demonstrate understanding of requisitioning, specimen transport and specimen processing.
.. Demonstrate understanding of quality assurance in phlebotomy.
. . Demonstrate understanding of the basic concepts of communications, personal and patient interaction, stress management, professional behavior and legal implications of this work environment.
. . Make a state minimum number of blood slides meeting stated criteria.
.. Exhibit a professional demeanor while performing phlebotomist duties.
... Provide standard first aid to someone who needs it.
... Perform cardiopulmonary resuscitation to the American Red Cross standards for professional rescuers.
... Pass the National Certifying Agency for Clinical Personnel and/or American Society of Clinical Pathologists certification examination.

Credits
MLT 100, Introduction to the Clinical Laboratory 2
MLT 100B, Phlebotomy Practicum I
MLT 100C, Phlebotomy Practicum II
HLTH 130, First Aid/CPR for Medical Personnel

TOTAL CREDITS

## Occupational Therapy Assistant Curriculum

## Associate in Science Degree ( 66 Semester Credits)

This curriculum is designed to prepare students to work under the supervision of a registered occupational therapist with clients who are in need of activities to increase or maintain their muscle or individuals who are unable to cope with daily life tasks as a result of injury, illness, the aging process, developmental delays, poverty or cultural differences. These remediation activities take place in a variety of health care facilities such as hospitals, clinics, rehabilitation centers, public and private schools, nursing homes and home care settings. Students have faculty supervised clinical learning experiences in a variety of these setlings.
Graduates of the Associate in Science degree program are eligible to take the national certification examination administered by the American Occupational Therapy Certification Board to become Certified Occupational Therapy Assistant.
The program is approved by the American Occupational Therapy Association
Upon successful completion of this program, the student should be able to:


Photo by Bryan Sekiguchi OTA student assist the patient in strapping on a brace.

Define occupational therapy as a component of total habilitation/rehabilitation to other professionals as well as to the lay public.
Use health terminology correctly.
. . . Extrapolate relevant data about patient/client to assist in evaluation/treatment in an occupational therapy department.
... Assist a registered occupational therapist in administering selected and prescribed treatment of patient/clients in hospitals, clinics, nursing homes, school and outpatient programs.
... Apply basic knowledge of the anatomy and physiology of the human body, disease conditions and processes, psychology, mental health concepts and dysfunctional conditions in a treatment setting.
Demonstrate a basic awareness of psychological, social and physical needs of patients/clients and demonstrate the ability to use interpersonal relationships to facilitate treatment.
... Demonstrate a basic knowledge of normal human growth and development, dysfunctional conditions and needs pertinent to the developmental levels from infancy through aging and apply this to occupational therapy treatment regimes appropriate for each level and role.
... Demonstrate basic skills in the activities, modalities and media used in occupational therapy practice and an ability to teach and utilize theseskills in patient treatment to individuals or groups.
... Adapt activities to meet the problems and needs of the client. Train patients in life skills (activities of daily living, work, recreation, and leisure) and assist a registered occupational therapist as assigned.
... Utilize skills in work simplification to help the patient regain or maintain life skills capacity.
. Report and record observations of patients/clients.
. . Organize, train and supervise volunteers.
... Lead activity group using the dynamics of group process.
... Plan occupational therapy programs to prevent deterioration of occupational performance.
... Function as a constructive member of a patient treatment team.
... Demonstrate an understanding of health care systems.
Lobby for a community/professional need in the Hawai'i legislative system and understand how to influence the health care services of the Hawai'i community.
Display entry level competency in a variety of clinic settings concurrent with academic instruction.
... Qualify to sit for the national certification examination for Certified Occupational Therapy Assistants.

First Semester (Fall)
Credits
OTA 100, Introduction to Occupational Therapy 4
OTA 121, Therapeutic Activities: Minor Crafts 2

FAMR 230, Survey of Human Growth and
Development
HLTH 125, Survey of Medical Terminology 1
BIOL 130, Anatomy and Physiology 4
BIOL 130L, Anatomy Lab $\quad 1$
15
*Second Semester (Spring)OTA 102, Physical Dysfunction4
** OTA 105B, C, D: Field Work Level I ..... 1
OTA 112, Critique: Field Work Level I ..... 1
OTA 123, Therapeutic Activities-Major Crafts ..... 2
OTA 132, Life Skills Lab 1 ..... 2
ENG 100, ENG 160 or SP 151 ..... 3
PSY 100, Survey of Psychology or PSY 170, Psychology of Adjustment ..... 316
Third Semester (Fall)
OTA 203, Pediatric Disabling Conditions ..... 4
** OTA 205B, C, D: Field Work Level I ..... 1
OTA 213, Critique: Field Work Level I ..... 1
OTA 253, Therapeutic Interpersonal Skills ..... 3
Quantitative Mathematics (Group 1) ..... 3
BUS 55 or Math 24 (or higher) or Phil 110 ..... 3
Approved Elective ..... 318
Fourth Semester (Spring)
OTA 204, Psychosocial Dysfunction ..... 4
** OTA 205 B, C, D: Field Work Level I ..... 1
OTA 214, Critique: Field Work Level I ..... 1
OTA 234, Life Skills Lab II ..... 2
OTA 256, The Role of OT in the Community ..... 3
OTA 260, Field Work Level I ..... 314
Summer**OTA 261, Field Work Level 113
TOTAL CREDITS66

## Physical Therapist Assistant Curriculum

## Associate in Science Degree (69 Semester Credits)

The purpose of this curriculum is to prepare students for licensure and employment as Physical Therapist Assistants (PTA) with the knowledge and abilities to provide care in the hospital, clinic, home or long term care facility for the rehabilitation of patients who were born with a disability or are disabled as a result of illness or accident. The PTAs work under the direction of and implement plans of care developed by Licensed Physical Therapists.

Upon successful completion of this program, the student should be able to perform:

## I. Measurement and Treatment Behaviors

A. Prepare patients, treatment areas and equipment as directed by the physical therapist in a manner that assures the patient's safety, personal care, and dignity.
B. Treat the patient, as directed by the physical therapist, by using the following modalities and therapeutic procedures in a safe and skillful manner according to accepted procedure:

- hot and cold packs
- paraffin
- whirlpool
- contrast baths
- Hubbard tanks
- pools
- shortwave
- microwave
- ultrasound
- ultraviolet
- electrical stimulation
- massage
- emergency care
- bandaging
- medical asepsis and isolation
- taking of vital signs
- lifting, moving and transfer of patients
- traction
C. Use appropriate body mechanics in the application of treatment procedures at all times to assure safety of both the patient and the student.
D. Apply skillfully fundamental exercise procedures and exercise equipment as directed by the physical therapist, with proper positioning, medical precautions and observing patient response.
E. Apply skillfully the techniques of ambulation and functional activities with or without the use of assistive and supportive devices.
F. Apply skillfully the techniques of ambulation and functional activities with or without the use of assistive and supportive devices.
G. Use selected measurement procedures, such as joint ROM tests, manual muscle tests and functional and coordination tests.
H. Assist the physical therapist in conducting complex evaluation and treatment procedures.

1. Teach patients, families and other health workers to perform selected treatment procedures and functional activities as directed by the physical therapist.
J. Apply braces, corsets, splints, prostheses and other supportive and assistive devices accurately and in such a manner as to avoid possible harm to the patient or damage to the equipment.
K. Modify technique(s) within personal limitations of knowledge and skill based on changes in patient's physical/mental status, unanticipated rate of progress, patient intolerance to treatment and secondary effects of treatment.
II. Communication Skills
A. Recording and Reporting

- Perform and record simple standardized measurement procedures when directed to do so by the physical therapist.
- Record results of tests and evaluations performed by the physical therapist.
- Note and describe symptoms of frustration, anxiety and other distress a patient and his family may suffer as a result of illness and disability.
- Take notice and describe ways in which individual patients and their families cope with psycho-social distress associated with health problems.
- Document clearly and concisely the treatment performed and patient's reaction to such treatment using medical terminology and observing departmental policy to document all other data required by the department at all times.
- Participate in clerical and reception duties inherent in the delivery of physical therapy services as determined by the policy and procedures of the physical therapy department
B. Human Interaction
- Interact with patients and their families in a manner which provides the desired support.
- Ask relevant and understandable questions of the physical therapist to clarify one's role in the treatment and progress of the patient.
III. Professional Behavior
A. Follow with $100 \%$ accuracy the policies and procedures of the physical therapy department to ensure safe and ethical practice in keeping with medico-legal principles.
B. Interpret the guide for conduct of the assistant in relation to activities in the approach and treatment of patients and in relationship with other health care workers.
C. Know the assistant's role in the delivery of health care services.

Spring semester Credits
PTA 206, Massage 1
PTA 207, Aquatic Physical Therapy 1
PTA 208, Advanced Therapeutic Exercise 1
PTA 208L, Advanced Therapeutic Exercise Lab 1
PTA 209, Modalities and Techniques 1
PTA 212, PTA Techniques for Neuropathol 1
PTA 212L, PTA Techniques for Neuro Lab 1
PTA 265, Electrotherapy for the PTA 1
PTA 265L, Electrotherapy Lab for the PTA 1
PTA 255, Clinical Practicum and Seminar II 3
PTA 275, Pediatrics for the PTA 2
HLTH 270, Aging and Rehabilitation 1
HLTH 280, Disease and Disability 2
17
Summer
PTA 260, Clinical Education Practicum $\underline{6}$
Program Credits 40
General Studies Credits $\quad 29$
TOTAL CREDITS

## Radiologic Technology Curriculum

## Associate in Science Degree (85 Semester Credits)

This curriculum includes a combination of subject matter and faculty supervised clinical experiences designed to prepare a person for the safe use of $x$-ray equipment in clinical settings under the supervision of a radiologist or other physician.

Satisfactory completion of the requirements for the Associate of Science degree permits the student to take the qualifying examinations of the American Registry of Radiologic Technologists and the Hawai'i Board of Radiologic Technology. This program is accredited by the Joint Review Committee on Education in Radiologic Technology.

Upon successful completion of this program, the student should be able to:
. Given a Radiology Department situation, demonstrate work habits and behavior appropriate to the profession as described in Directive for Students Training as Radiologic Technologists at the Co-operating Hospital.
. Given a Radiology Department situation, identify all patients who should be given emergency care according to the standards maintained by the hospitals.
... Given any patient requiring emergency care, perform the appropriate emergency procedures which could include external cardiac resuscitation, lung ventilation, and/or administering oxygen to the standards maintained by the hospitals.
... Given any patient requiring an injection or having a contagious disease or operative procedure, the student will maintain asepsis in all such cases to the standards maintained by the affiliated hospitals.
... Given any patient, instruct the patient by whatever method can best be understood including interpreter, sign language and/or demonstration, what the examination requires of him including breathing techniques and what items must be removed from his person which would cause an artifact or obscure possible pathology to obtain a diagnostic radiograph to the standards of the supervising radiologists.
... Given an ambulatory patient, a wheelchair patientor a guerney patient, physically assist or move the patient into each of the required positions for all radiological examinations by using the medically accepted standard of body mechanics methods and without injuring himself or the patient.
... Given any patient for radiographic and fluoroscopic procedures, maintain radiation protection measures to minimize radiation exposure to oneself and the patient as stated in the National Council on Radiation Protection Measurements Report.
... Given any patient, evaluate the diagnosis, the age and body habitus and select the accurate technical exposure factors to obtain a diagnostic radiograph to the standards of the supervising radiologists.
. . . Given a patient, take diagnostically acceptable radiographs of any or all parts of the body (anatomy) to the standards of the supervising radiologists.
... Given a standard processing room, store, handle and process any or all film using either manual or automatic processing, without artifacts, to the departmental standards of the affiliated hospitals.
... Use oral and written medical communication.
... Demonstrate knowledge of human structure, function and pathology.
... Adapt exposure factors for various patient conditions, equipment, accessories and contrast media to maintain appropriate radiographic quality.
... Evaluate radiographic images for appropriate positioning and image quality.
... Evaluate the performance of radiographic systems, know the safe limits of equipment operation and report malfunctions to the proper authority.
... Exercise independent judgement and discretion in the technical performance of medical imaging procedures.
... Given any patient, obtain and prepare the patient information for billing and film identification for all radiologic procedures and retrieve such information including previous radiographs to the standards of the affiliated hospitals.
Given 200 objective, multiple choice test items administered by the American Registry of Radiologic Technologist relating to and including items from the following subject areas: Radiographic Techniques, Standard Positioning, Anatomy \& Physiology, X-ray Physics and Electricity, Darkroom, Special Procedures, Radiation Therapy, Radiation Protection, Professional Ethics and Related Nursing, and Medical Terminology; answer correctly $75 \%$ of the questions.
Given 200 objective, multiple choice test items administered by the Hawai'i Board of Radiologic Technologist relating to and including items from the following subject areas: Radiographic Techniques, Standard Positioning, Anatomy \& Physiology, X-ray Physics and Electricity, Darkroom, Speciai Procedures, Radiation Therapy, Radiation Protection, Professional Ethics and Related Nursing, and Medical Terminology; answer correctly $75 \%$ of the questions.
First Semester (Fall) Credits
HLTH 125, Survey of Medical Terminology ..... 1
HLTH 130, First Aid and Safely ..... 1
RAD 100, Introduction to Radiologic Technology ..... 3
RAD 100L, Introduction to Radiologic Technology Lab ..... 1
RAD 140, Hospital Radiologic Technique ..... 6
MATH 100 or higher ..... 3
BIOL 130, Anatomy and Physiology ..... 419
Second Semester (Spring)
RAD 110, Radiologic Techniques ..... 3
RAD 110L, Radiologic Techniques Lab ..... 1
RAD 120, Radiologic Physics ..... 3
RAD 141, Hospital Radiographic Technique ..... 6
RAD 149, Radiographic Film Critique I ..... 1
ENG 100, Expository Writing or ENG 160, Business/Technical Writing ..... 317
Summer: 12 weeks
RAD 150, Radiographic Film Critique II ..... 2
RAD 142, Hospital Radiographic Technique ..... 68
Third Semester (Fall)
RAD 200, Advanced Radiologic Positioning ..... 3
RAD 200L, Advanced Radiologic Positioning Lab ..... 1
RAD 210, Advanced Radiographic Technique ..... 3
RAD 240, Hospital Radiographic Technique ..... 6
RAD 248, Radiographic Film Critique III ..... 1

* Social Science ..... 3

Fourth Semester (Spring)
RAD 220, Departmental Administration 1
RAD 230, Special Radiographic Procedures 3
RAD 230L, Special Radiographic Procedures Lab 1
RAD 241, Hospital Radiographic Technique 6
RAD 249, Radiographic Film Critique IV 1
RAD 255, Applied Radiological Principles 1

* Humanities $\quad 3$

Summer: 12 weeks
RAD 260, Radiologic Biology and Protection 2
RAD 242, Hospital Radiographic Technique $\underline{6}$

TOTAL CREDITS
*Must be in courses numbered 100 and above.
Note: A grade of " C " or better must be maintained in all required courses in order to continue in the program. All courses in radiologic technology may be transferable to institutions offering baccalaureate degrees in radiologic technology. At the present time, UH-Mānoa does not have such a program. Information about transfering to a baccalaureate program in radiologic technology is available from program faculty.

# Respiratory Care Curriculum 

## Associate in Science Degree ( 86 Semester Credits)

## Certificate of Achievement (47-50 Semester Credits)

The purpose of this curriculum is to provide classroom, laboratory and faculty supervised clinical learning experience designed to prepare students with entry-level competencies as respiratory care practitioners.

The program provides a career ladder in respiratory therapy with two points of exit. Students exiting with a Certificate of Achievement after 11 months are eligible to take the entry-level certification examination of the National Board for Respiratory Care. Students receiving the Associate in Science degree after 21 months areeligible to take the Registry examination of the National Board for Respiratory Care. These two levels correspond with the job description of the Respiratory Care Technician and the respiratory therapist respectively.

It is recommended that interested persons take high school chemistry and two years of high school algebra. Additional mathematics and science courses are encouraged.

Upon successful completion of the Associate in Science program in respiratory therapy, the student should be able to:
... Perform the entry-level job description of a respiratory therapist in the acute care general hospital wards, cardiopulmonary laboratories, critical care units,pediatric/newborn units and rehabilitation/home care settings.
... Adequately communicate with hospital patients and visitors, and co-workers including allied health personnel, nurses and physicians.
Independently, at physician's request, knowledgeably, skillfully and safely perform the tasks of general therapeutics.
... Independently, at physician's request, knowledgeably, safely and skillfully perform the tasks of cardiopulmonary laboratory and critical respiratory care.
.. . Perform the procedures necessary to support an organized approach to the therapeutics described above including evaluation of therapeutic outcomes, charting and recordkeeping, organization of work priorities and maintenance, cleaning, sterilization and assembly of respiratory therapy equipment.
... State the function of the respiratory care department in the hospital, and be familiar with the supervisory and administrative tasks of the respiratory care technical director and the organizational and professional relationships with national and stateinstitutions, as well as the community.
... Pass the comprehensive final examination for the respiratory therapist program.
... Appreciate the value of continuing professional education and involvement with the development of the respiratory care profession and better patient care.

Upon successful completion of the Certificate of Achievement program, the student will have achieved the same basic competencies as those listed above except for the following differences:
... Perform the entry-level job description of a respiratory care technician in the acute care general hospital wards, cardiopulmonary laboratories and the intensive care unit.
... At the physician's request, safely perform the tasks of the cardiopulmonary laboratory and critical respiratory care but on a more limited basis than does the respiratory therapist.
... Pass the comprehensive final examination for the respiratory care technician program.
Prerequisite CoursesCredits
BIOL 130, Human Anatomy and Physiology ..... 4
BIOL 130L, Human Anatomy and Physiology Lab ..... 1
HLTH 126, Survey of Medical Technology ..... 1
MATH 25, Elementary Algebra, or higher ..... 3
*CHEM 101, Survey General, Org, Biochem or SCI $122+$ lab ..... 312
Fall I
ENG 100, ENG 160, COMUN 145 or SP 151 ..... 3
RESP 110, Clinical Practice I ..... 5
RESP 113, Respiratory Care Techniques 1 ..... 3
RESP 116, Respiratory Care Science I ..... 3
RESP 127, Cardiopulmonary Pathophysiology ..... 216
Spring I
RESP 120, Clinical Practice II ..... 5
RESP123,RespiratoryCareTechniquesII ..... 3
RESP 126, Respiratory Care Sciences II ..... 3
RESP 129, Pulmonary Diagnostic Techniques ..... 4

## Summer I

RESP 131, Clinical Practice III 3
RESP 136, Respiratory Care Seminar $\quad 3$
SUBTOTAL CREDITS
47-50

PROGRAM EXIT POINT FOR CERTIFICATE OF ACHIEVEMENT
Fall II
**Social Sciences ..... 3

* PHYS 100, Survey of Physics or SCI 122, 122L ..... 3
RESP 220, Clinical Practice IV ..... 5
RESP 223, Intensive Respiratory Care ..... 3
RESP 216, Advanced Pharmacology and PFT ..... 2
RESP 217, Respiratory Care Administration ..... 2
18
Spring II
MICRO 130, General Microbiology ..... 3
MICRO 140, General Microbiology Lab ..... 2
***Humanities ..... 3
RESP 210, Clinical Practice $V$ ..... 5
RESP 213, Neonatal/Pediatric Resp. Care ..... 3
RESP 226, Adv Cardiopulmonary Pathophysiology ..... 218
TOTAL CREDITS ..... 80
PROGRAM EXIT POINT FOR ASSOCIATE IN SCIENCE DEGREE
*See Program Director or Counselor; SCI 122, 122L May be taken in place of CHEM 101 and PHYS 100.
**Recommend FAMR 230, ICS 100, PSY 100.
***Recommend HUM 100, PHIL. 207, HIST 151. Clinical Practice in affiliated community hospitals.

Note: A grade of "C" orbetter must be maintained in all Respiratory Care courses in order to remain in the program. It is strongly recommended that one or more of the support courses be taken prior to program entry.


Photo by Bryan Sekiguchi
Respiratory Care students practice using the infant ventilator.

## Nursing Department

Joan Matsukawa, Department Chairperson<br>Instructors: Josephine Aoki; Eileen Bahrami; Terry Basuel; Linda Belisle; Kay Blackwell; Kuuipo Chai; Gheslaine Chock; Elsie Choy; Karen Coker; Donna DeMello; Pat Douville; Lois Duffy; Mary Ann Johnson; Connie Jongewaard; May KealohaBeck; Judith Keyworth; Shirley LaForge; Linda Miguel; Andrea Nedervelt; Patricia Olson; Liz Ottoson; Martha Sean Parmelee; Katherine Shideler; Ruth Stewart; Kathleen Sullivan; Evelyn Takazawa; Barbara Tredick; Barbara Waggoner; Maryellen Walker; Elva Yoshihara; Naomi Yoshimura<br>Programs: Adult Residential Care Home Personal Care Attendant<br>Nurses' Aide<br>Long Term Care/Home Health Nurses Aide Practical Nursing<br>Associate Degree Registered Nursing (ADN)

Telephone: 734-9272

## Adult Residential Care Home Curriculum

This is a special curriculum designed in cooperation with the Department of Health for individuals who wish to operate an Adult Residential Care Home. Applicants must have Nurse's Aide training, verification of one year employment as a nurses aide in long term care or home health care and a 8.0 or better reading level to register for these courses.

## Program Requirements:

Credits
NURS 12, Diseases, Special Diets, Medicines 1
NURS 13, Helping Therapies and Behavior Management 1
NURS 14, Regulations, Accounts, Community Resources 1

## Nurses ${ }^{\prime}$ Aide Curriculum

## Certificate of Completion (8 Semester Credits)

A course designed to prepare Nurses' Aides to work in hospitals, nursing homes, private homes and clinics. Classroom, laboratory, and faculty supervised clinical learning experiences are offered.

Upon successful completion of the Nurses' Aide program, the student should be able to:
. . Function in the role of the Nurses' Aide as a member of the
health care team under the supervision of the LPN, RN, or MD.
... Perform basic nursing skills safely.
... Perform basic patient care skills safely.
... Perform selected therapeutic nursing care safely.
. . . Implement effective communication skills.
Program Requirements:
Credits
NURS 16, Nurses' Aide
8

Note: All students in the NA program must have one man CPR certification prior to the start of class.

## Long Term Care/ Home Health Nurses' Aide

## Certificate of Completion (4 Semester Credits)

Long Term Care/ Home Health Nurses Aide is a one-week course to prepare entry level nurses' aides who can function in the long term care and home health settings. Students in the course will learn to provide basic personal care, communicate with patients and staff, perform simple nursing procedures and provide basic emotional support to the elderly, ill and disabled in the long term care and home health settings.

Upon successful completion of this program, the student should be able to:
. . Function as a member of the Long Term Care health care team under the supervision of a nursing instructor.
... Experience the role and skills of the home health aide and be aware of the adaptions of basic care to the home setting.
... Provide safe, simple basic nursing care to clients in Long Term Care and in the home care setting.
... Assist the clienvfamily to meet the nutritional and therapeutic needs as required or ordered.
... Use communication skills to facilitate understanding between client, self, and agency staff.
. . . Effectively carry out simple housekeeping tasks.
. . . Provide companionship and comfort to clients in Long Term Care and at home.
... Recognize the legal and ethical responsibilities of a Long Term Care/Home Health Aide.

Program Requirements:
Credits
NURS 09, Long Term Care/Home Health Nurses' Aide
4

Note: All students in the LTC/HHNA program must have one man CPR and Multimedia or Basic First Aid certification prior to the start of class.

## Practical Nursing Curriculum

## Certificate of Achievement (41 Semester Credits)

This curriculum is designed to prepare students with entry level competencies as Licensed Practical Nurses. The program consists of planned learning experiences in classroom, laboratory and faculty supervised clinical seltings which will prepare the student upon graduation to function in the role of a beginning practitioner of practical nursing. The program is 11 months in length.

Upon graduation from the program, students are eligible to take the licensing examination to become a Licensed Practical Nurse. The program is fully accredited by the Board of Nursing, State of Hawai'i.

Upon sauccessful completion of this program, the student should be able to:
... Pass the licensing examination for practical nurses.
... Function as a member of the health care team under the supervision of the RN and/or MD.
... Participate in the planning, implementation and evaluation of nursing care.
... Administer safe nursing care for patients throughout the life cycle.
... Identify the legal and ethical responsibilities of the practical nurse.
First Semester ..... Credits
NURS 101, Nursing Perspectives ..... 1
NURS 120, Fundamentals of Nursing ..... 13
BIOL 130, Anatomy and Physiology ..... 18
Second Semester
NURS 122, Medical-Surgical Nursing ..... 14
FAMR 230, Survey of Human Growth and Development ..... $\frac{3}{17}$
Third Semester
NURS 126, Child Nursing ..... 3
NURS 128, Perinatal Nursing ..... 3.
TOTAL CREDITS ..... 41

A grade of "C" or better must be maintained in all courses in order for the student to continue in the practical nursing program.
*BIOL 130 L (lab) is recommended but not required.
Note: Students expecting to apply for the registered nurse (ADN) program within the following five years may choose to take ZOOL . $141,141 \mathrm{~L}, 142$ and 142 L in place of BIOL 130.

All students admitted to the Practical Nursing Program must have current First Aid and CPR cards no later than the fourth week of instruction. The minimum requirement for first aid is a MultiAcdia first-aid certificate; standard first aid is strongly encouraged.

# Associate Degree Nursing Curriculum 

## Associate in Science Degree (74 Semester Credits)

The Associate Degree Nursing curriculum is a two year (five semester) program designed to prepare students for the nursing profession. Graduates of the program are eligible to sit for the State Board of nursing examination to become registered nurses. New students are admitted each semester and are given both theoretical instruction and an opportunity for clinical application of nursing skills as they prepare to begin entry level practice as registered nurses.

After they have passed the nursing licensure examination, graduates of the program will be prepared to fill beginning level positions as Registered Nurses in hospitals, doctors' offices or other health related institutions, participating in planning, implementing and evaluating nursing care for patients throughout the life cycle. Graduates will also be eligible for admission to the third year of the Bachelor of Science in Nursing program at UH-Mänoa.

Prerequisite College Courses (must be completed before the first nursing course)

$$
\begin{array}{ll}
\text { ENG 100, Expository Writing } & \\
\text { or ENG 160, Business/Technical Writing } & 3 \\
\text { ZOOL 141,141L Human Anatomy and Physiology } & 4 \\
\text { FAMR 230, Lifespan Human Growth and Development } & 3 \\
\text { MATH 25, Elementary Algebra or higher } & 3 \\
\text { Chemistry (high school or college) } &
\end{array}
$$

## Spring Admission

Spring I (16 credits) Credits
NURS 153W, Basic Nursing Concepts and Skills 8
NURS 158, Issues \&Trends in Nursing 1
PSYCH 100, Survey of Psychology 3
ZOOL 142, Human Anatomy and Physiology 3
ZOOL 142L, Human Anatomy and Physiology Lab $\quad 1$ 16

Summer ( 5 credits)
NURS 156, Adult Health Nursing

[^2]| Spring II (12 credits) |  |
| :---: | :---: |
| NURS 253, Mental Health/Psychiatric Nursing | 5 |
| NURS 264, Family Health Nursing II, III | 4 |
| PHARM 203, General Pharmacology | 3 |
|  | 12 |
| Fall II (12 credits) |  |
| NURS 258, Issues \& Trends in Nursing II | 1 |
| NURS 256, Adult Health Nursing IIt | 5 |
| ANTHRO 200, Cultural Anthropology | 3 |
| Humanities Elective | 3 |
| Fall Admission |  |
| Fall I (16 credits) |  |
| NURS 153W, Basic Nursing Concepts and Skills 8 |  |
| NURS 158 Issues \& Trends in Nursing I |  |
| ZOOL 142, Human Anatomy and Plhysiology |  |
| ZOOL 142L, Human Anatomy and Physiology Lab |  |
| PSYCH 100, Survey of Psychology | 3 |
|  | 16 |
| Spring I(15 credits) |  |
| NURS 156,Adult Health Nursing 5 |  |
| NURS 157,Adult Health Nursing II 5 |  |
| MICRO 130, General Microbiology 3 |  |
| MICRO 140, General Microbiology Laboratory | 3 |
|  | 15 |
| Summer I (6 credits) |  |
| NURS 154 Family Health Nursing I | 3 |
| NURS 155 Child Health Nursing I |  |
| 6 |  |
| Fall II (12 credits) |  |
| NURS 253, Mental Health/Psychiatric Nursing 5 |  |
| NURS 264, Family Health Nursing II, Ill 4 |  |
| PHARM 203, General Pharmacology | 3 |
|  | 12 |



Sludent nurses pursuing the Associate's degree do clinical work in the various Honolulu hospitals as well as classroom studies.
Spring II (12 credits)
NURS 256,Adult Health Nursing III ..... 5
NURS 258,Issues \& Trends in Nursing II ..... 1
Humanities Elective ..... 3
ANTH 2OO, Cultural Anthropology ..... 3TRANSIFION FOR LICENSED PRACTICAL NURSE
Prerequisites (completion of the following):
Chemistry (high school or college)
ZOOL 141, 141L, Human Anatomy and Physiology ..... 4
ZOOL 142, 142L, Human Anatomy and Physiology ..... 4
FAMR 230, Survey of Human Growth and Development ..... 3
MICRO 130, General Microbiology ..... 3
MICRO 140, General Microbiology Lab ..... 2
PSYCH 100, Survey of Psychology ..... 3
ENG 100, Expository Writing of ENG 160, Business/Technical Writing ..... 3
MATH 25, Elementary Algebra or higher ..... 3
Most science courses have a 5 -year time limit; there is nolimit on Chemistry.
PN program equivalent to $\mathrm{KCC}^{\prime}$ s.
Six months of last three years in SNF or acute care oracceptable score on the NLN Mobility Test for PNs.
Semester 1
NURS 166W, Nursing Transition ..... 5
Semester I (12 credits)
NURS 253, Mental Health/Psychiatric Nursing ..... 5
NURS 264, Family Health Nursing II, III ..... 4
PHARM 203, General Pharmacology ..... 12
Semester 11 (12 credits)
ANTH 200, Cultural Anthropology ..... 3
NURS 256, Adult Health Nursing 111 ..... 5
NURS 258, Issues \& Trends in Nursing ..... 1
Humanities Elective ..... 12

Note: A grade of "C" of above must be maintained in all courses in order for the student to continue in the Associate Degree Nursing Program and to graduate from the program.

> All students admitted to the Associate Degree Nursing Program must have current First Aid and CPR cards no later than the first week of instruction. The minimum requirement for First Aid is a Multi-Media first aid certificate. The minimum requirement for CPR is one and two person CPR. It is the responsibility of each student to keep these certifications current throughout enrollment in the nursing program. All students must take the NL.N Pre-Nursing test prior to acceptance and submit evidence of high school graduation or GED certification by the document deadline.

## Legal Assistant

Robert LeClair, Department Chairperson; Bruce Barnes Telephone: 956-6637

## Legal Assistant Curriculum

## Associate in Science Degree ( 60 Semester Credits)

In 1984, KCC's Legal Assistant Program won the Secretary's Award from the United States Department of Education for being one of the ten most outstanding vocational education programs in the nation. The legal assistant (paralegal) is a new and emerging occupation. The legal assistant is a person who assists in the delivery of legal services by performing the technical and paraprofessional aspects of maintaining any law practice. These aspects may include:

> Interviewing and assisting clients
> Communicating effectively
> Implementing legal procedures
> Performing investigative functions
> Conducting legal research
> Preparing instruments and documents
> Assisting in judicial and administrative appearances
> Completing client projects
> Coordinating office functions

Thus, the legal assistant is someone specially trained to perform, under the supervision of an attorney, legal functions traditionally undertaken by either an attorney or an expert legal secretary.

Legal costs have dramatically increased; and the legal assistant is one of the major means of making services more widespread, efficient and available to all with resultant cost savings to the client. The legal assistant fulfills a role that is roughly analagous to the role of the paramedic in the medical field.

The program graduate will be qualified to work in private law firms, corporations, public agencies, and public law firms.

Upon successful completion of this program, the student should be able to:

Recognize and avoid potential problems in the unauthorized practice of law and other ethical problems that arise in the course of a legal assistant's duties.
... Recognize, define, analyze and evaluate facts elicited in the course of legal investigation; and should further know how to classify facts into the following categories: verified, unverified, admissible in court and inadmissible in court.
... Know the principles of law office management relating to: design of office procedures system, organization and maintenance of information files, personnel management, job training, purchase and maintenance of office equipment and maintenance of a law library.

... Research and draft legal documents, memoranda, and briefs, in an insightful and analytical manner; should further know how to locate and cite legal authority quickly and accurately.
... Express thoughts and ideas in a concise and straightforward manner, whether this communication is to a client, an attorney, a witness or a court official.
... Interview clients in a way that produces a maximum of information in a minimum amount of time; the legal assistant should also be able to question and cross-examine witnesses at administrative hearings.

Note: Basic accounting, basic typewriting and introduction to computers are highly recommended electives.

Program Requirements:
General Education Credits
English (ENG 100, SP 151, SP 251 or COMUN 145) 3
Social Sciences 3
Humanities 3
Mathematics 3
Natural Sciences $\quad \begin{array}{r}3 \\ \hline \quad 15\end{array}$

Note: It is recommended that all of these basic requirements be from courses numbered 100 level and higher to provide for maximum transferability to baccalaureate programs.

| Required Core Courses | Credits |
| :--- | ---: |
| LAW 101, The Hawai'i Legal System | 3 |
| LAW 102, Legal Research | 3 |
| LAW 201, Law Office Management | 3 |
| LAW 202, Legal Interviewing, Counseling and |  |
| Negotiating | 3 |
| LAW 203, Legal Writing | $\frac{3}{3}$ |

## Substantive Law Courses:

The student is to elect any combination of the courses below sufficient to total 12 hours of credit.
LAW 104, Civil Investigation ..... 3
LAW 111, Litigation (highly recommended) ..... 3
LAW 121, Law of Business Organizations ..... 3
LAW 126, Taxation ..... 3
LAW 131, Property Law ..... 3
LAW 136, Tort and Insurance Law ..... 3
LAW 140, Family Law ..... 3
LAW 151, Estate Planning and Probate ..... 3
LAW 161, Public Sector Law ..... 3
LAW 166, Employment Related Law ..... 3
LAW 171, Consumer Law ..... 3
LAW 176, Criminal Law ..... 3
LAW 181, Legal Rights of the Disadvantaged ..... 3
LAW 250, Advanced Legal Topics
(B) Advanced Investigation ..... 3
(C) Advanced Litigation ..... 3
(D) Advanced Law of Business Organizations ..... 3
(E) Advanced Taxation ..... 3
(F) Advanced Real Property Law ..... 3
(G) Advanced Tort and Insurance Law ..... 3
(H) Advanced Family Law ..... 3
(i) Advanced Estate Planning and Probate ..... 3
(j) Advanced Public Sector Law ..... 3
(K) Advanced Employment Related Law ..... 3
(L) Advanced Consumer Law ..... 3
(M) Advanced Criminal Law ..... 3
LAW 282, Computer Assisted Legal Research ..... 3

Cooperative Education (Field Placement)
Three hours of cooperative education are required for graduation.

LAW 193V, Cooperative Education 3
LAW 293V, Cooperative Education (optional)

TOTAL CREDITS

## The library



Photo by David Kusumoto Students follow the presidential elections in the communications alcove of the library.


Photo by Bryan Sekiguchi
Representatives from Beijing University and the UH Community Colleges gather for the signing of the exchange agreement between the two institutions in the Char Asian-Pacific Room of the library.


Photo by Moriso Teraoka The library is located in Lama, the Hawaiian name for light. The length of a football field, the library is designed to take advantage of the latest in telecommunications equipment. Students can access data bases on the island and as far away as London. It will eventually provide resource materials to countries in the Pacific Rim.


## Associate in Arts Degree ( 60 Semester Credits)

This program is designed to provide students with an associate of arts degree and to prepare them for transfer to a baccalaureate degree program at a four-year college or university. The requirements listed below are the requirements for the Associate in Arts degree at Kapi'olani Community College. Students should note that baccalaureate degree requirements at UH-Mānoa, may differ, so please see your academic advisors for details.

Note: Students who entered the College for the first time as freshmen in the Fall of 1987 or Spring of 1988 are advised that they will be expected to complete two writing-intensive courses before receiving the baccalaureate degree from any of the colleges at UHMānoa. One of these courses must be at UH-Mānoa. One of these courses must be in the lower division and one in the upper division. Students enrolling in the school year 1988-1989 for the first time as f́reshmen must complete three writing-intensive courses, two in the lower division and one in the upper division. Students must complete ENG 100 with a "C" or better before enrolling in a writing-intensive course.

## Liberal Arts Departmental Competencies

The Competencies expected of the Associate in Arts degree student are not achieved in a single course or in the courses in a single department. However, primary responsibility for assisting the student in achieving certain competencies is assigned to a particular department. Liberal Arts courses fall within the Arts and Sciences Division. The following four departments make up this division: Mathematics and Natural Science, Language Arts, Social Science and Humanities. Faculty members and competencies for each department are grouped below.

## Mathematics and Natural Sciences

Charles Matsuda, Department Chairperson
Instructors: Andrew Astromoff; Maria Bautista; John Berestecky; Allen Breed; Nancy Bushnell; Karen Chock; Kyong Soo Chung; Charles Daniels; Harry Davis; Ronald Dunn; Anne Flanigan; Linda Kodama; Eric Kostlan; Jerry Masada; John Mowbray; Wayne Neidhardt; Vera Okamura; Andrew Pak; Nelda Quensell; John Rand; John Uno; Don Voyce; Lane Yoder
Telephone: 734-9237

The student who completes required courses in mathematics and natural sciences as part of the Associate in Arts degree should be a able to:
. . . Demonstrate awareness of science as a discipline that has been and continues to be objective, rational, cumulative, international and quantitative.
... Reason mathematically and understand mathematical concepts.
... Apply mathematical reasoning and concepts in a study of the relationship of mathematics to the modern world.
. . . Express the ethical nature of the scientific attitude with attention to its strict intelleclual honesty and accuracy of observation, calculation and conclusion.
... Show an awareness of the fundamental physical, chemical and biological processes that operate in the human individual and in the human environment.
... Understand the observational and experimental techniques and methodologies employed in the natural sciences.
... Make simple measurements and tests of reality according to a degree relative to current and future lifestyles.
... Show acquisition of sufficient scientific knowledge necessary to continue pursuit of anticipated academic, vocational and personal needs.

## Language Arts

Guy Nishimoto, Department Chairperson
Instructors: Carol Beresiwsky; Maureen Bogdanowicz; Janice Cook; Shu-Fen Fujitani; Yukiyasu Ishigami; Robert Johnson; Keith Kashiwada; Dennis Kawaharada; Judith Kirkpatrick Thomas Kondo; Amy Kurata; Irena Levy; Jill Macagon; Kathleen MacDonald; Guy Nishimoto; Esther Noguchi; Frank Noji; Louise Pagatto; James Robinson; Meena Sachdeva; James Shimabukuro; Steven Singer; Charlotte Toguchi; Kahi Wight Telephone: 734-9283

The student who completes required courses in language arts, as part of the Associate in Arts degree should be able to:
... Demonstrate thinking that is clear, constructive and critical in writing and in speaking.
... Develop a thesis statement and design an expository essay and/or term paper, with attention to research skills and writing form.
. . . Show a capacity to communicate either in a formal speech or in interpersonal discussion, with awareness of the audience to whom the speaking is directed, types of oral presentations, diction, choice of ideas and information and organization.
Discern and explain the main meaning of a thesis statement in various types of written and oral presentations.
... Separate value judgements and inferences from factual statements in various types of written and spoken material.

Illustrate growth toward a self-concept and confidence in expression in written and spoken form.
Read with comprehension commensurate with expectations in college-level work.

## Humanities

Caroline Nakamura, Department Chairperson
Instructors:John Cole; Robert Engle; Kauka DeSilva; Robert Fearrien; Robin Fujikawa; Sheldon Hershinow; Delmarie Klobe; Janet McWilliams; Michael Molloy; Noreen Naughton; Jonathan Osorio; Loretta Pang; Sandra Perez; Brendan Wall
Telephone: 734-9282
The student who completes required courses in humanities as part of the Associate in Arts degree should be able to:
.. Understand the nature of the humanities as a collection of disciplines that study the nature of the human being and human culture, attitudes, accomplishments and relationship to the universe.
... Recognize the commonality, interrelatedness, tensions and affirmations of human existence.
... Critically examine the values and attitudes of one's own culture and appreciate the values of other cultures separated in time or space from ones own.
... Regard oneself as personally responsible for one's own creations, assertions, decisions and valuations.
... Learn to listen to and communicate with one's peers and tolerate opposing viewpoints.
... Understand and participate in intellectual and aesthetic pursuits.


Photo by Stephen Robley Ceramics students have the opportunity to experiment with a variety of stock and natural glazes and firing techniques.
... Develop leisure-time activities which encourage a constructive and self-fulfilling existence.
... Foster a spirit of continuous inquiry in pursuit of wisdom.

## Social Sciences

Mike Tagawa, Department Chairperson
Instructors: Ibrahim Dik; Jeanne Edman; Robert Franco; Jane
Fukunaga; Robin-Claire Mann; Neghin Modavi; Judith T.
Renner; Barbara Ross-Pfeiffer; C. Eric Sears; Marcia Somer; Michael Tagawa
Telephone: 734-9438
The student who completes required courses in the social sciences as part of the Associate in Arts degree should be able to:
. . Illustrate awareness of the social sciences as a related collection of disciplines that furnishes the opportunity for the analysis of the individual and interaction of the individual with society.
.. . Evaluate and utilize knowledge to form valid conclusions and solutions.
... Possess an understanding of issues, analyses, approaches, resources and methodologies by which the values and attitudes of society and the community might be examined and tested.
... Exhibit skills in critical analysis and persuasive discussion, arriving at possible solutions and establishing a viewpoint that is defensible as evidence accumulates.

## ASSOCIATE IN ARTS DEGREE REQUIREMENTS

|  | Least Credits Most Credits |  |
| :---: | :---: | :---: |
| General Education |  |  |
| ENG 100 or ESL 100 | 3 | 3 |
| Mathematical/Logical Thinking | 3 | 4 |
| History 151 | 3 | 3 |
| History 152 | 3 | 3 |
| Oral Communications | 3 | 3 |
| Foreign/Hawaiian Language 101* | 3-4 | 4 |
| Foreign/Hawaiian Language 102* | 4 | 4 |
|  | 23 | 24 |

Arts and Humanities: Three semester course selected from three of four groups.

| Arts and Humanities | 3 | 3 |
| :--- | :--- | :--- |
| Arts and Humanities | 3 | 3 |
| Arts and Humanities | $\underline{3}$ | $\underline{3}$ |
|  | 9 | 9 |

Natural Sciences: Three semester courses. One of the three courses must include a lab. At least one course each must be chosen from Biological Sciences and Physical Sciences.

| Natural Science (Biological) | 3 | 3 |
| :--- | ---: | ---: |
| Natural Science (Physical) | 3 | 3 |
| Natural Science | 3 | 3 |
| Natural Science Laboratory | $\frac{1}{4}$ | $\frac{4}{3}$ |

Social Sciences: Three semester courses from three different disciplines.

| Social Science | 3 | 3 |
| :--- | :--- | :--- |
| Social Science | 3 | 3 |
| Social Science | $\underline{3}$ | $\underline{3}$ |
|  | 9 | 9 |

Electives: A minimum of nine semester Liberal Arts credits in courses numbered at or above the 100 level.

Elective
Total A.A. Degree Credits

| 9 | open |
| :--- | :--- |
| $\overline{60}$ | $\overline{60}$ or more |

Students must complete, before they graduate with an A.A. degree, Iwo Writing Intensive (WI) courses.

* The foreign/Hawaiian language requirement may be met through the completion of first level study of approved language foreign to the student (i.e., through 102) and/or through demonstrated proficiency at same level.


## Liberal Arts

Associate In Arts Degree Requirements

| Least CreditsMost Credits |  |  |
| :--- | ---: | :---: |
| General Education |  |  |
| Eng 100/ESL 100 | 3 | 3 |
| Mathematical/Logical Thinking | 3 | 4 |
| History 151 | 3 | 3 |
| History 152 | 3 | 3 |
| Oral Communications | 3 | 3 |
| Foreign/Hawaiian Language 101* | $3-4$ | 4 |
| Foreign/Hawaiian Language 102* | 4 | $\underline{4}$ |
|  | 23 | 24 |

Arts and Humanities: Three semester course selected from three of four groups.

| Arts and Humanities | 3 | 3 |
| :--- | :--- | :--- |
| Arts and Humanities | 3 | 3 |
| Arts and Humanities | $\underline{3}$ | $\underline{3}$ |
|  | 9 | 9 |

Natural Sciences: Three semester courses. One of the three courses must include a lab. At least one course each must be chosen from Biological Sciences and Physical Sciences.

| Natural Science (Biological) | 3 | 3 |
| :--- | ---: | ---: |
| Natural Science (Physical) | 3 | 3 |
| Natural Science | 3 | 3 |
| Natural Science Laboratory | 1 | $\underline{4}$ |
|  | 10 | 13 |

Social Sciences: Three semester courses from three different disciplines.

| Social Science | 3 | 3 |
| :--- | :--- | :--- |
| Social Science | 3 | 3 |
| Social Science | $\frac{3}{2}$ | 3 |
|  | 9 | 9 |

Electives: A minimum of nine semester Liberal Arts credits in
courses numbered at or above the 100 level.
$\begin{array}{lrr}\text { Elective } & 9 & \text { open } \\ \text { Total A.A. Degree Credits } & \overline{60} & \overline{60}\end{array}$ or more

Students must complete, before they graduate with an A.A. degree, two Writing Intensive (WI) courses.

* The foreign/Hawaiian language requirement may be met through the completion of first level study of approved language foreign to the student (i.e., through 102) and/or through demonstrated proficiency at same level.


## Courses Satisfying A.A. Degree Requirements

The courses which follow are divided into two categories those which fulfill both UH Mānoa and KCC core requirements and those which fulfill KCC core requirements only.

Students intending to transfer to UH Mānoa must be careful when selecting courses which satisfy only KCC requirements. Students should note that baccalaureate degree requirements vary at UH Mānoa and should see their academic counselor for program details. Substitutions to the A.A. Degree requirements may be granted if identical substitutions are officially granted to a college at UH Mānoa.

Students majoring in Liberal Arts may substitute other courses for a specific requirement listed below if the Dean of Instruction agrees that the substitution is required at the college to which the student intends to transfer. The student must complete and submit a course waiver form with supporting documentation.


Photo by Brock Pemberton The college chorus rehearses for the annual Fine Arts concert.

# Office Administration and Technology 



## Trude Pang, Department Chairperson

Instructors: Margaret Harris; Theresa Hunt; James Johnson;
Geraldine Kabei; Debbie Miller; Phyllis Moore; Ellen Nagaue; Joyce Nakamura; Estelle Ogawa; Evelyn Sugihara; Iris Taketa Telephone: 734-9140

In the Office Administration and Technology programs listed below, students must achieve a grade of "C" or better in all required Office Administration and Technology courses to be eligible for a certificate or degree.

## Clerical <br> Certificate of Completion (29 Semester Credits)

This curriculum prepares students for positions in various types of officesGraduates develop competencies in performing a variety of clerical duties, including oral and written communication; typingkeying in simple copy from rough draft and printed materials; completing business forms and miscellaneous records; filing; operating computers and business machines; using computer software application programs; distributing mail; answering the telephone, and meeting the public.

Upon successful completion of this program, the student should be able to:
... Type/key, proofread and produce mailable business forms and correspondence.
... Maintain the currently used filing system for alphabetic, numeric, geographic, and subject systems; retrieve items from files; and prepare cross-reference forms.
. . . Use various reference materials.
. . . Use computer software for word processing, spreadsheet and database applications.
... Display appropriate business attire and etiquette and express oneself through proper verbal communication.
... Perform duties common to most clerical positions such as telephone usage, receptionist duties, mail handling, etc.
... Identify job opportunities for which one is qualified, prepare for job interview, participate in job interview and follow up.
... Operate various types of office equipment such as computers, electronic calculators, scanners, etc.
... Apply correct grammar, punctuation and spelling rules in documents.
. . . Perform basic business math applications.
... Demonstrate appropriate professional attitudes and behavior.
. . . Compose basic business documents.
First Semester
Credits
BUS 55, Computational Problems in Business
(Gen. Ed.- Group 1,Math) ..... 3
ENG 51B, Business English: Sentence Structure and Grammar ..... 1
ENG 51C, Business English: Punctuation and Mechanics ..... 1
ENG 51D, Business English: Word Choice and Spelling ..... 1
OAT 40B, Filing ..... 2
OAT 23, Document Formatting ..... 3
OAT 43, Professional Development ..... 314
Second Semester ..... Credits

* SP 51, Oral Communication Techniques or
SP 151, Personal and Public Speech
(Gen. Ed.-Group 1, Communication) ..... 3
OAT 30, Information Processing ..... 3
OAT 38, Spreadsheet/Database ..... 3
** OAT 53, Office Simulation ..... 4
***OAT 66B, Beginning Shorthand, Alpha I ..... 2
TOTAL CREDITS ..... 29
* Students planning to major in Certificate of Completion Secretarial-Administrative must enroll in SP 151.
**Students planning to major in Associate in Science Degree, Office Administration and Technology, Legal must substitute OAT54, Legal Office Procedures I for OAT 53, Office Simula tion.
***OAT 60, Beginning Symbolic Shorthand may be substituted.


## Court Reporting Certificate of Completion (28 Semester Credits)

This extended-day enrichment program is designed to prepare students for positions as Court Reporters at 225 wpm writing speed as well as for positions as hearings reporters, secretary-reporters and police reporters. Emphasis is placed on acquiring the specialized vocabulary and writing/transcribing skills required of reporters.

Upon successful completion of this program, the student should be able to:
... Transcribe multiple-voice dictation, jury charge and legal opinion dictation; citations; voir dire examinations, opening statements and summations and colloquy; and be able to locate specific portions of testimony for readback.
... Proofread and make neat and accurate corrections of transcripts.
Mark shorthand tapes appropriately for identification of court examinations and pass timed transcriptions at speeds ranging from 60 to 235 words per minute.
Take dictation at high and sustained speed using a variety of terminology; business, medical, and legal and have an understanding of court and jury procedures.
Use reference materials and forms and have a working knowledge of court reporting procedures expected of reporters.
... Identify reporting job opportunities.
Credits
OAT 56, Court Reporting Office Procedures 3
OAT 71, Machine Shid. Theory I (None) 5
OAT 72, Machine Shtd. Theory II (60-80 wpm) 4
OAT 73, Machine Shtd. Theory III (80-100 wpm) 4
OAT 74, Machine Shid./Sklbidg. I (100-140 wpm) 4
OAT 75, Machine Shid./Sklbldg. II (140-180 wpm) 4
OAT 76, Machine Shid./Sklbldg. III ( $180+\mathrm{wpm})$ 4

TOTAL CREDITS
28
This program does not accept students into the program continuously. Students in this program are not required to complete the Clerical Certificate of Completion. Call Department Chaiperson for information, 734-9140.

## Certificate of Achievement

Certificates of Achievement are available to students who have successfully completed the Certificate of Completion OAT Clerical core or have the approval of the Office Administration and Technology Department chairperson.

## Medical Transcription Certificate of Achievement (42 Semester Credits)

The College offers a sequence of courses to prepare students for employment in clinics, hospitals and doctor's offices in medical transcription positions. Training emphasis is placed on acquiring general stenographic skills related to the needs of medical transcribers and using medical terminology.

In addition to successfully completing the competencies of the clerical core, the student should be able to:

Become proficient in the use of dictation/transcription machines while transcribing medical reports.
. . Accomplish stenographic tasks requiring the use of the most frequently used medical terms/phrases related to the various types of medical record reports and the various specialities of medicine.
Use various medical references (medical dictionaries, drug references, instrument catalogs, anatomy texts, etc).
. . Use various formats for producing medical record reports.

## Credits

(Clerical Core or Equivalent)
BIOL 22, Human Anatomy and Physiology 3
HLTH 110, Medical Terminology 2
OAT 33, Principles of Office Automation 3
OAT 80, Machine Transcrition $1 \quad 2$
OAT 83, Medical Transcription ___ 3
TOTAL CREDITS

## Stenography

## Certificate of Achievement

 (43-45 Semester Credits)This curriculum prepares students for employment as stenographers. Emphasis is given to a variety of basic office skills with machine transcription and shorthand being the two principal skills required for employment.

In addition to successfully completing the competencies of the clerical core, the student should be able to:
. . Become proficient in the use of dictation/transcription machines while transcribing business reports.
.. Become proficient in writing symbolic shorthand and transcribing written notes accurately.


Photo by Debbie Yamao Students in the Employment Training Center get a head start in the OAT program by learning to use computers.
Credits
Specialization A: Symbolic Shorthand (Clerical Core or Equivalent) ..... 29
OAT 33, Principles of Office Automation ..... 3
OAT 62, Intermediate Symbolic Shorthand ..... 4
OAT 64, Advanced Symbolic Shorthand ..... 4
OAT 80, Machine Transcription I ..... 2
OAT 81, Machine Transcription II ..... 3
TOTAL CREDITS ..... 45
Specialization B: Alpha Shorthand
(Clerical Core or Equivalent) ..... 29
OAT 33, Principles of Office Automation ..... 3
OAT 66C, Beginning Shorthand, Alpha II ..... 2
OAT 68, Intermediate Shorthand, Alpha ..... 4
OAT 80, Machine Transcription I ..... 2
OAT 81, Machine Transcription II ..... 3
TOTAL CREDITS ..... 43
Word Processing
Certificate of Achievement (40 Semester Credits)

The College offers a sequence of courses to prepare students for employment in the fast-growing field of word processing as operators of information processing equipment. Training emphasis is placed on acquiring skills in the operation of various kinds of office ecuipment, such as computers, electronic typewriters and dictation/transcription equipment.

In addition to successfully completing the competencies of the clerical core, the student should be able to:
. . . Demonstrate the ability to apply advanced information processing skills.
... Become proficient in the use of dictation/transcription machines while transcribing business reports

## Credits

(Clerical Core or Equivalent) 29
OAT 31, Information Processing Applications 3
OAT 33, Principles of Office Automation 3
OAT 80, Machine Transcription I
2
OAT 81, Machine Transcription II

TOTAL CREDITS

## Associate in Science Degree

This curriculum combines specialized courses in office skills, shorthand, information processing and typewriting with related business and general education courses to prepare students for OAT positions.

## Office Administration - General <br> Associate in Science Degree (60-62 Semester Credits)

Students enrolled in this curriculum must complete the OAT core for an Associate in Science degree and either Option A or B.

In addition to successfully completing the competencies of the clerical core, the student should be able to:
. . Become proficient in the use of dictation/transcription machines.
.Perform duties common to most secretarial positions including decision making, supervision, and office management.
. . Perform basic accounting activities.
. . Compose and edit business correspondence.

## OFFICE ADMINISTRATION CORE

Credits
(Certificate of Completion-Clerical) ..... 29
ACC 24, Principles of Accounting ..... 3
ENG 55, Business Communications ..... 3
GENERAL EDUCATION Groups II, III, \& IV ..... 9
OAT 80, Machine Transcription I ..... 2
OAT 93V, Cooperative Education ..... 3
OAT 33, Principles of Office Automation ..... 3
TOTAL CREDITS ..... 52
Specialization A: Non-Shorthand


Photo by Debbie Yamao
OAT students work with calculators.
OFFICE ADMINISTRATION CORE ..... 52
ENG 100, Expository Writing ..... 3
ENG 209, Business and Managerial Writing ..... 3
OAT 81, Machine Transcription II ..... 3
TOTAL CREDITS61
Specialization B: Symbolic Shorthand
OFFICE ADMINISTRATION CORE ..... 52
OAT 62, Intermediate Symbolic Shorthand ..... 4
OAT 64, Advanced Symbolic Shorthand ..... 4
TOTAL CREDITS ..... 60
Specialization C: Alpha Shorthand
(OFFICE ADMINISTRATION CORE) ..... 52
OAT 66C, Beginning Shorthand, Alpha II ..... 2
OAT 68, Intermediate Shorthand, Alpha ..... 4
OAT 70, Advanced Shorthand, Alpha ..... 4
TOTAL CREDITS ..... 62
Office Administration - Legal

## Associate in Science Degree <br> (70-72 Semester Credits)

Students enrolled in this curriculum must complete the OAT core for an Associate in Science degree and either Option A or B.

Students aspiring to become legal secretaries will be able to find employment in law offices, courts, legal departments and governmental agencies. Emphasis is placed on acquiring general secretarial skills as well as gaining specialized knowledge needed to obtain a position.

In addition to successfully completing the competencies of the OAT Program, the student should be able to
... Type/key and proofread legal documents and papers.
... Use various legal references.
... Use legal terms/phrases in producing legal documents.
... Accomplish stenography tasks requiring the use of the most frequently used legal terms/phrases related to the various types of legal documents.
... Use various formats for producing legal documents.

|  | Credits |
| :--- | ---: |
| (OFFICE ADMINISTRATION CORE) | 52 |
| (SPECIALIZATION A OR B) | $\mathbf{8 - 1 0}$ |
| LAW 30, Business Law I or LAW 200, Legal Environment | 3 |
| of Business | 4 |
| OAT 55, Legal Office Procedures II | 4 |
| OAT 31, Information Processing Application | 3 |
|  | TOTAL CREDITS |

## Advanced Certificate of Completion

Advanced Certificates of Completion are available to students who have successfully completed the A.S. Office Administration and Technology general core or have the approval of the Office Administration and Technology Department chairperson and have one year secretarial experience.

Upon successful completion of this program, the student should be able to:
. . Explain the importance of organization structure and levels of management.
. . Describe the major changes taking place in today's office environment.
. . Distinguish between work organization and time management through adaptability and flexibility on the job.
. . Recognize major information sources for identifying job lasks and responsibilities.
. . Identify various employee motivational programs and sources of professional growth.
.. Understand public relations responsibilities typically performed by administrative assistants.
. . Understand the importance of professionalism and ethics in a business environment.
. . Recognize the importance of compusition skills for administrative assistants and apply correct grammar and punctuation skills.
. . Recognize the impact electronic data processing has on the business and office environment.
. . Understand the law as it affects businesses.

# ADMINISTRATIVE - (GENERAL 15 Semester Credits) <br> Credits (OAT, Clerical Core or Equivalent) 

BUS 20, Introduction to Business 3
BUS 70, Human Relations in Business 3
ENG 209, Business and Managerial Writing 3
LAW 200, Legal Environment of Business 3
MGT 18, Introduction to Supervision 3
TOTAL CREDITS 15

ADMINISTRATIVE - (LEGAL 15 Semester Credits)
Credits (OAT, Clerical Core or Equivalent)
BUS 70, Human Relation in Business
ENG 209, Business and Managerial Writing
*LAW 101, The Hawai'i Legal System

* LAW 111, Litigation
* LAW 201, Law Office Management
TOTAL CREDITS

*Students must receive approval of Paralegal Department Chair-
person for admittance into course.

## Description of Courses

The following pages list courses of instruction by subject area. Since all courses are not offered each semester, a student should obtain from the Student Services Center a list of the current offerings at the lime of registration. The College reserves the right to make changes in course content and to add or delete course offerings.

## Credit

The credit of each course is indicated by a number in parentheses following the title of each course.

## Course Numbering

A course shall be designated by an abbreviated alpha which stands for the subject-content or discipline of the çourse followed by a number. The number indicates:

1-10 Courses not generally applicable toward associate degrees. These courses may, however, count to ward certificates.*
11-99 Courses which meet requirements for Associate in Science degrees and Certificates of Achievement and Completion.*
100-299 Courses which meet requirements for all associate degrees and certificates and which are transferable toward baccalaureate programs offered by UHMānoa.*
*Check program requirements in your major area.

## Lettering System

There are some courses which have the letters A, L, or V after the course number. These letters indicate the following: $A$ (honors), L (laboratory), and V (variable credit). All other suffixes ( $B$ through $K$, $M$ through $U$, and $W$ through $Z$ ) are used to designate sections of a course, each section having distinctive content such that a student may earn credit towards his or her degree for each section taken.

Example: ENG 50B
50 C
50D

## Core Designations

Courses approved for the General Education Core are identified by one of the following at the end of the course description. See page 13 for a detailed listing for core requirements.

BASIC SKILLS AND UNDERSTANDING<br>WR - Written Communication (Introductory-level writing)<br>OR - Oral Communication<br>M/L - Mathematical or Logical Thinking<br>WC - World Civilization<br>FL - Foreign or Hawaiian Language<br>AREA REQUIREMENTS<br>AH - Arts and Humanities<br>AH1- Group 1 The Arts

AH2 - Group 2 History and Culture<br>AH3 - Group 3 Language and Literature<br>AH4 - Group 4 Values and Meaning<br>NS - Natural Sciences<br>NS1 - Group 1 Biological Sciences<br>NS2 - Group 2 Physical Sciences<br>SS - Social Sciences

## Foreign Language Courses

All students who have previously taken a course in a foreign language and wish to continue their study of that language at Kapi'olani Community College must take a placement test prior to enrollment.

Students who are native or proficient speakers of a foreign language may not enroll in or receive credit of any kind for beginning courses in that language. Specific regulations regarding these courses may be found in the office of the Language Arts Department Chairperson. Kapi'olani's regulations adhere to the policy statements regarding European Languages and East Asian Languages at the UH-Mānoa Campus.

## Individual and Specialized Group Study

Opportunity is afforded in each of the areas in which credit courses are offered for individual and specialized group study. Individual Study 299V in any subject area may be arranged by consuling with an appropriate instructor and by the completion of forms obtained from the department chairperson. Likewise, when a number of students are interested in the pursuit of a similar topic, special sections of 199 V , Specialized Group Studies, may be arranged.

## Cooperative Education

Academic credit is awarded for (a) seminar sessions and (b) planned and evaluated cooperative work experience related to the student's educational objectives in the following curriculum areas:
Curriculum
Accounting
Office Administration/Technology
Sales \& Marketing
Legal Assistant
Hotel Operations

## Course Alpha

ACC 93V OAT 93V SMKT 93V LAW 193V, 293 V FSHE 193, 293 V

A student participating in Cooperative Education Internship may receive from two to four credits per semester. No more than a total of eight credits may be counted toward a Certificate or Associate degree. Credits are awarded as follows:

| Seminar <br> Planned and evaluated <br> cooperative work <br> experience | 1 hour/week | 1 credit |
| :--- | :--- | :--- |
|  | 3 hours/week | 1 credit |

Additional information is available from the appropriate department chairperson.

24 Principles of Accounting I (3)
3 hours lecture per week
Prerequisite: Satisfactory performance on Math Placement Test.
Basic accounting procedures. Includes insight into a service business and a merchandise business proprietorship.
Upon successful completion of this course, the student should be able to:
. . . Demonstrate understanding of the procedures involved in the basic accounting cycle and apply those procedures to the recording and reporting of accounting data at the introductory level.
... Maintain a set of books for a sole proprietorship engaged in a professional or small service-type business.
... Maintain subsidiary ledgers for customers and creditors.
... Prepare routine source documents such as invoices and receipts and perform routine accounting clerical tasks.

## 25 Principles of Accounting II (3)

3 hours lecture per week
Prerequisite: ACC 24
Accounting systems and controls, principles and concepts; accounting for partnerships and corporations.
Upon successful completion of this course, the student should be able to:
... List the various accounting principles and concepts and apply them to basic accounting procedures and reporting requirements at the introductory level.
... Demonstrate understanding of the basic differences in the characteristics of the partnership and corporate form of business organization and relate such differences in the accounting for and the reporting of owner's equity.
... Prepare basic financial statements for proprietorships, partnerships and corporations, properly classified.

## 26 Principles of Accounting III (3)

3 hours lecture per week
Prerequisite: ACC 25 (may be taken concurrently with consent of instructor/advisor)
Accounting and reporting of manufacturing operations; analysis and interpretation of financial statements and preparing Cash Flow Statements.
Upon successful completion of this course, the student should be able to:
... Demonstrate understanding of the rudiments of computing product costs and of accounting reporting for manufacturing activities.
... Demonstrate general understanding of basic concepts and accounting procedures underlying combined financial statements for branches and subsidiaries and segmental reporting for departmental operations.
. . Prepare common size and percentage financial statements, describe basic quantitative technique used for analysis and interpretation of financial statements; and perform related calculations.
... Prepare Cash Flow Statements based on transactions at the introductory level.

## 32 Payroll and Hawai'i General Excise Taxes (30)

## 3 hours lecture per week

Prerequisite: ACC 24 or concurrent enrollment in ACC 24
Training in the preparation and maintenance of payrolls and personnel records; preparation and filing of returns and forms for payroll taxes and the Hawai'i General Excise Tax.
Upon successful completion of this course, the student should be able to:
. . Demonstrate awareness of the basic provisions of Federal and State laws pertinent to payroll and personnel records.
... Maintain payroll and timekeeping records.
... Prepare payrolls and returns for payroll taxes and Hawai'i General Excise Tax.

## 34 Income Tax Preparation (3)

3 hours lecture per week
Prerequisite: ACC 24
introduction to Federal and Hawai'i Income tax laws for individual and sole proprietors.
Upon successful completion of this course, the student should be able to:
... Demonstrate knowledge of the Federal and Hawai'i basic tax structure for the computation of income tax liability for individuals.
... Prepare Federal and Hawai'i income tax returns and forms for reporting and payment of income taxes for individuals.
. . . Demonstrate recognition of transactions and events having income tax significance and their importance in planning.

## 36 Cost Accounting (3)

Spring
3 hours lecture per week
Prerequisite: ACC 26
An introduction to the principles and procedures of cost accounting, including a study of job order and process of cost systems, manufacturing cost controls and variance analysis.
Upon successful completion of this course, the student should be able to:
.. Demonstrate understanding of manufacturing operations and describe procurement, costing and control procedures for the three elements of production costs (materials, labor and overhead).
. . . Record the flow of costs through the cost records and accounts; and compute costs under job order, process and standard costing.
... Describe the importance and use of cost accounting data in planning, control and management decision making.

## 37 Business Income Taxation (3)

Fall
3 hours lecture per week
Prerequisite: ACC 34
Continuation of Federal and Hawai‘i Income Taxes. Preparation of
returns for small businesses, tax treatment on disposals of business property, business deductions and study of tax saving provisions. Upon successful completion of this course, the student should be able to:
... Demonstrate understanding of the reporting and taxation of business income.
... Prepare schedules and returns for proprietorships, partnershipsand corporations at the elementary level.
. . . Demonstrate awareness of the tax benefits of overall tax planning and the availability of tax-saving devices for individuals and businesses.

## 40 Intermediate Accounting (4)

3 hours lecture, 2 hours lab per week
Prerequisite: ACC 26 or 202
Advanced theory with emphasis on general accounting: the accounting process, reporting and interpretation of financial statements.
Upon successful completion of this course, the student should be able to:
. . . Demonstrate understanding of generally accepted accounting principles and concepts and their application to recording and reporting requirements beyond the introductory level.
Prepare comprehensive financial reports with Balance Sheets, Statements of Retained Earnings and Operations including those for manufacturing activities, properly classified.
... Demonstrate understanding of advanced problems involving valuations, recording and reporting alternatives, analysis and interpretation of financial data.

## 50 Using Computers in Accounting (3)

3 hours lecture per week
Prerequisite: ACC 24 or 201
Familiarizes Accounting majors with computer equipment functions, vocabulary and accounting applications. Provides com-puter-oriented experience in processing accounting data.
Upon successful completion of this course, the student should be able to:
... Demonstrate general understanding of the application of computers to the processing of accounting information.
Usetypical, integrated general ledger software to accomplish the recording and reporting functions for accounting information.

## 55 Using Spreadsheets in Accounting (3)

3 hours lecture per week
Prerequisite: ACC 24, 201 or instructor's permission.
This is an intensive course in the use of spreadsheets on microcomputers in the accounting field. Financial and managerial accounting applicalions will be emphasized.
Upon successful completion of this course, the student should be able to:
... Demonstrate proficiency in using computerized spreadsheets to accomplish the accounting function.
. . . Complete compatible Accounting 202 or appropriate portions of Accounting 25/26 homework problems using a computerized spreadsheet.
. . . Apply general spreadsheet knowledge to courses other than accounting, such as Business, Office Procedures, Quantitative

## Methods and Sales and Marketing.

Diagnose accounting information needs within the context of a computerized accounting environment; determine which concepts introduced in Accounting 201/202 (or 24/25/26) lend themselves to computer implementation using a spreadsheet.
Apply these abilities to accounting jobs requiring the use of spreadsheets to perform the accounting function.

## $93 V$ Cooperative Education (1-4)

1 hour seminar or 3 hours work experience each week for 1 credit. Prerequisite: Consent of Program Coordinator
Cooperative Program between the employer and the college that integrates classroom learning with supervised practical experience.
Upon successful completion of this course, the student should be able to:
... Perform activities in the cooperative work area involving such areas as routine tasks, problem or crisis situations, creative suggestions or initiatives, personal development, work attitudes and other competencies as determined by the instructor.
... Write an essay on an overall competency, such as analyzing or describing the student's job in terms of the organization and its relationship to principles, concepts or procedures covered in the field of study.

## 201 Elementary Accounting I (3)

## 3 hours lecture per week

Introduction to accounting theory and methods to record and report financial information for sole proprietorships in service and retail operations.
Upon successful completion of this course, the student should be able to:
... Demonstrate understanding of and the application of procedures embraced in the accounting cycle.
... Demonstrate proficiency in recording transactions based upon an understanding of and analysis in terms of the accounting equation.
... Explain "internal control" as a function of accounting and indicate basic principles involved in establishing controls for minimizing errors and fraud.
. . . Demonstrate introductory understanding of basic accounting principles and concepts and their application to accounting procedures and financial reporting requirements.

## 202 Elementary Accounting II (3)

3 hours lecture per week
Prerequisite: ACC 201
Introduction to methods for evaluating financial performance, including cost accounting, budgeting, break-even analysis, ratio analysis and sources and uses of funds.
Upon successful completion of this course, the student should be able to:
. . . Recognize the differences in the nature of partnerships and corporations and relate such differences in the accounting for and reporting of owner's equities.
Demonstrate general understanding of the flow of production costs and record rudimentary transactions involved in manufacturing operations.
... Prepare financial statements (basic and special) and demon-
strate broad understanding of the analytical techniques used in the analysis and interpretation of financial reports for decisionmaking purposes.

| AMERICAN | $\because \because \because$ |
| ---: | :--- |
| STUDIES |  |
| (AMST) | $\because$ |

201 Introduction to American Civilization I: Fall Individualism and the American Character (3) AH2

## 202 Introduction to American Civilization 11: <br> Spring

 Minority Views of Majority America (3) AH23 hours lecture per week
Recommended Preparation: Qualification for, or completion of English 100 or 160
Note: American Studies 201 and 202 need not be taken in sequence. Central themes of American life seen in the context of history, literature and the social sciences, 201 examines the mainstream of American beliefs and 202 examines minority views. Upon successful completion of either American Studies 201 or 202, the student should he able to:
... Appreciate the interdisciplinary approach to the study of America.
... Gain a better understanding of the student's own cultural heritage.
. . . Develop and defend value judgments.
. . . Recognize the importance of historical perspective for understanding various kinds of social problems.
Recognize the major themes in literary works dealing with the American experience.
. . . Recognize the importance of empirical data for understanding various kinds of social problems.
. . . Appreciate the complexity of American values and identity.
... Conceive and carry out an independent study project.
... Express ideas and opinions clearly in writing.

## 211 Contemporary American Issues I (3) SS

3 hours lecture per week
Recommended preparation; Qualification for or completion of ENG 100 or 160
Prerequisite: None
An interdisciplinary introduction to selected contemporary American domestic problems.
Upon successful completion of this course, the student should be able to:
. . . Gain a better understanding of the values that comprise the American character.
. . . Demonstrate knowledge of the influence of recent technological developments on American values and culture.
... Understand the social, political and economic causes of environmental problems.
... Understand those factors in American society that give rise to social intolerance and discriminatory behavior.
. . . Gain a better understanding of the social, economic and political currents that are changing American society and values.
. . . Conceive and carry out an independent study project.
... Express ideas and opinions clearly in writing.

## 212 Contemporary American Issues II (3) SS

3 hours lecture per week
Recommended preparation: Qualification for or completion of ENG 100 or 160.
Prerequisite: None.
An interdisciplinary introduction which explores America's relationship with the rest of the world.
Upon successful completion of this course, the student should be able to:
. . Gain a better understanding of the values which comprise the American character.
. . . Gain a better understanding of how Americans have historically viewed themselves in relation to other cultures and how they have been viewed in return.
... Gain a better understanding of the cultural barriers between Americans and others which create the misunderstandings that continually mark American foreign relations.
. . . Understand the changes that have occurred in post World War II foreign affairs.
. . . Develop a better understanding of national defense issues.
... Conceive and carry out an independent study project.
... Express ideas and opinions clearly in writing.


150 Human Adaptations (3) SS
3 hours lecture per week
Recommended Preparation: Qualification for or completion of ENG 100 or 160
An examination of the processes and stages of human evolution. Analysis of human biological and cultural variation.
Upon successful completion of this course, the student should be able to:

Identify the interactions between the two major fields of anthropology, physical anthropology and cultural anthropology.
... Explain how archeology contributes to both physical and cultural anthropology.
. . Identify the physical, biological and cultural factors that influence human evolution.
. . Specify the biological and behavioral differences between humans and other animal species.
. . . Trace the evolutionary record from early primates to modern humankind.
... Identify the biological processes - heredity, variation and natural selection - involved in human evolution.
Differentiate biological and cultural differences and similarities in human populations.
Develop a concept of culture that will be useful in analyzing and discussing cross-cultural issues in Hawai'i, the United States and the world.
... Identify cross-cultural issues and develop a research paper using literature sources and interviews.
... Express and discuss research results clearly in writing.

200 Cultural Anthropology (3) SS
3 hours lecture per week
Recommended Preparation: Qualification for or completion of ENG 100 or 160
An examination of the concept of culture, with a focus on culture as an adaptive strategy developed by human populations in response to their environment.
Upon successful completion of this course, the student should be able to:
... Identify the major theoretical orientations in cultural anthropology and understand how these orientations shape the fieldwork experience.
. . . Explain how anthropologists study economics, kinship, political and religious systems, personality development and cultural change.
. . . Explain how applied anthropological research can be used in social planning and development and in problem-solving.
... Use anthropological perspectives on work to shape career interests and investigate employment opportunities.
. . . Develop a concept of culture that will be useful in analyzing and discussing cross-cultural issues in Hawai'i, the United States and the world.
... Differentiate cross-cultural differences and similarities in Hawai'i's multi-cultural society.
... Identify cross-cultural issues and develop a research paper using literature sources and interviews.
... Express and discuss research results clearly in writing.

## 210 Archaeology (3)

3 hours lecture per week
Recommended Preparation: Qualification for or completion of ENG 100 or 60
An introduction to prehistoric archaeology and methods and techniques of excavation and laboratory analysis with a brief survey of man's cultural growth in prehistoric times.
Upon successful completion of this course, the student should be able to:
. . . Identify the methods archacologists use in gathering material evidence about man's past.
... Analyze and diagnose anatomical and attribute differences and understand the process of archaeological inference.
... Identify the major explanatory concepts and theories in archaeology.
. . Identify environmental and cultural processes which shape the archaeological record.
... Identify how archaeologists examine living human populations to gain insights into the formation of archaeological sites and materials.
... Delineate major archaeological work in Hawai'i and the Pacific.
... Apply archaeological concepts and theories and utilize literature and informant sources to prepare a research paper.
... Express clearly in writing and verbally present research results.

## 215 Physical Anthropology (3)

3 hours lecture per week

## Prerequisite: ENG 100 or 160

Introduction to physical anthropology: modern methods, techniques and theories of the study of human evolution, primates and physical adaptations of modern humans to their environment.
Upon successful completion of this course, the student should be able to:
.. Identify the major concerns, methods and theoretical orientation of the field of physical anthropology and relate it to other social science fields and branches of anthropology.
... Describe the major causes of biological variation in living human populations and theories relating these factors to environment and culture.
Identify the major explanatory concepts and theories now accepted in the study of human evolution, including genetics and DNA analysis.
... Explain how primate evolution and behavior relates to the study of human evolution and variation.
. . . Demonstrate the use of computers and laboratory techniques to gather and interpret physiological data on human and primate populations.
Identify and explain the relationships of fossil evidence to current theories of primate and hominid evolution.
. . . Apply fieldwork observations, laboratory work and library research to obtain and analyze data and prepare research reports.
... Express clearly in writing and verbally present research results.

## 235 Introduction to Pacific Island Peoples (3)

3 hours lecture per week
Recommended Preparation: Qualification for or completion of ENG 100 or 60
An introduction to the traditional and contemporary cultures of the Pacific. Emphasis is placed on cultural change and comparisons between Hawai'i and other Pacific Island societies.
Upon successful completion of this course, the student should be able to:
... Recognize the voyaging spirit and skills of Pacific island navigators.
... Explain Pacific settlement theory and the role of archeology in the development of this theory.
... Explain the relationship between culture and ecology in the Pacific Islands.
. Identify cultural differences and similarities in the three culture areas of the Pacific: Melanesia, Micronesia and Polynesia.
... Analyze oral narrative materials to gain insight into traditional Pacific cultures.
... Evaluate the impact of European and Asian influence in Hawai'i and other Pacific island societies.
... Compare and contrast economic opportunities and constraints in Hawai'i and other Pacific societies.
... Identify social problems in the contemporary Pacific and assess their potential impact on the State of Hawai'i.
... Identify cross-cultural issues and develop a research paper using literature sources and interviews.
... Express and discuss research results clearly in writing.


Nephrite jade
sculpture, a gift from
Christchurch
Polytechnic in New
Zealand, symbolizes
the "first touching of hands" with KCC. The school was one of the hosts in KCC's Study
Abroad program.


100 Introduction to the Crafts (3) AH1

## 6 hours lecture/lab per week

Introduction to various craft media through the creative process. Upon successful completion of this course, the student should be able to:
... Demonstrate a knowledge of three different craft media through the creation of at least nine different projects.
. . . Create both utilitarian and non-utilitarian craft objects.
. . Utilize the principles and elements of art in creating craft objects.

## 101 Introduction to the Visual Arts (3) AH1

## 3 hours lecture per week

Recommended preparation: complete or qualify for ENG 22
Primarily through lectures and demonstrations, this course introduces the nature of the visual arts and their expression in various forms.
Upon successful completion of this course, the student should be able to:
. . . Demonstrate a knowledge and understanding of the elements of art, principles of design and the creative process.
. . . Demonstrate a familiarity with major historical and contemporary movements in art and be able to understand how art reflects its time.
... Demonstrate an understanding of the various art media.
. . . Appreciate the visual arts' influences on quality of life.
... Incorporate writing as a tool for analyzing art forms.

## 103 Introduction to Fiber Arts (3) AH1

## 6 hours lecture/lab per week

Recommended preparation: ART 101, 113, 114
Studio projects and lectures in weaving, and related fiber techniques. Upon successful completion of the course, the student should be able to:
... Demonstrate an understanding of basic on and off loom fiber techniques including weaving, basketry and knotting.
. . . Comprehend and sensitively apply the visual elements of line, shape, color, texture, volume and mass and the design principles of balance, rhythm, dominance, contrast, variation and unity to fiber projects.
... Use weaving and related fiber techniques as a tool which generates imagery and stimulates ideas on structure, texture, color and pattern.
... Begin to use technique primarily as a vehicle for personal expression and conceptual work.
... Demonstrate an understanding of drawing as a tool for conceplualization and documentation of personal imagery.
. . . Establish procedures for fiber processes.
... Complete the creative problem-solving process from planning to implementation and evaluation.
... Demonstrate an awareness of historic and contemporary examples of textiles and fiber art.

104 C Introduction to Printmaking-Intaglio (3) AH1
6 hours lecture/lab per week
Recommended Preparation: ART 101, 113 (may be taken concurrently)
Studio practice in concepts and techniques of producing printed images from metal plates including monotype, etching, aquatint, drypoint and engraving.
Upon successful completion of this course, the student should be able to:
. . Comprehend and sensitively apply the visual elements of line, shape, value, color, texture, space and motion and the design principles of balance, rhythm, dominance, contrast, variation and unity to monotype and intaglio projects.
... Know historic and contemporary examples of monotype and intaglio technique.
... Complete the creative problem-solving process from planning and discovery to implementation and evaluation.
... Begin to experiment by taking risks through the process of exploration and revision during the creative problem-solving process.
... Demonstrate an understanding of monotype and intaglio materials, procedures and concepts.
... Establish procedures for the monotype and intaglio technical processes.
... Begin to use the printmaking process to express personal imagery.

## 104D Intro Printmaking-ScreenPrint (3) AH1

6 hours lecture/lab per week
Recommended preparation: ART 101, 114 (may be concurrent)
Abeginning course providing hands-on experience in the development of skills used in designing for silkscreening on paper. Includes skills in photo-silkscreening.
Upon successful completion of this course, the student should be able to:
. . Comprehend and sensitively apply the visual elements of line, shape, value, color, texture, space and motion, and the design principles of balance, rhythm, dominance, contrast, variation and unity to screenprinting projects.
... Know historic and contemporary examples of screenprinting technique.
... Complete the creative problem-solving process from planning and discovery to implementation and evaluation.
... Begin to experiment by taking risks through exploration and revision during the creative problem solving process.
... Demonstrate an understanding of screenprinting materials, procedures and concepts.
... Establish procedures for the screenprinting process.
. . Learn to use contemporary as well as traditional techniques of screenprinting, including computer graphics techniques.
... Begin to use the screenprinting process to express personal imagery.

## 105 Introduction to Ceramics (3) AH1

6 hours lecture/lab per week
Recommended preparation: ART 101 (may be taken concurrently) Three dimensional concepts in clay; hand-building and wheelthrowing techniques.
Upon successful completion of this course, the sludent should be able to:
. . Demonstrate through finished ceramic objects a basic understanding of hand building and wheel throwing techniques.
... Proceduralize the ceramic process.
. . . Comprehend and sensitively apply the visual elements of line, shape, color, texture, volume and mass, and the design principles of balance, rhythm, dominance, contrast, variation and unity to the execution of ceramic objects.
... Demonstrate a basic understanding of color and color theory as it relates to the use of glazes.
. . . Complete the creative problem-solving process from planning and discovery to implementation and evaluation.
. . . Demonstrate a basic understanding of drawing as a means of notation, conceptualization and visual organization.
. . . Demonstrate an awareness of historic and contemporary examples of ceramics.
... Begin to use the ceramic process to express personal imagery.
. . . Demonstrate an ability to articulate the concepts and intent of a finished ceramic piece.

## 106 Introduction to Sculpture (3) AH1

6 hours lecturellab per week
Recommended preparation: ART 101 (may be taken concurrently) Sculpture studio experience in assemblage, carving, moldmaking, metal construction and casting.
Upon successful completion of this course, the student should be able to:
... Demonstrate an understanding of the following sculpting processes: assemblage, carving, mold making, metal construction and casting.
. . Utilize creative problem-solving and procedures in the sculpting process.
. . . Demonstrate and sensitively apply the visual elements of line, texture, color, volume and mass and the design principles of balance, directional force, rhythm, dominance, contrast, variation and proportion.
. . Demonstrate a basic understanding of drawing as a means of notation, conceptualization and visual organization.
... Demonstrate an awareness of historic and contemporary examples of sculpture.
... Begin to use the sculpting process to express personal imagery.


The Koa Art Gallery exhibits work by students and artists.

## 107 Introduction to Photography (3) AH1

## 6 hours lecture/lab per week

Recommended preparation: ART 101 (may be taken concurrently) This course introduces elements and principles of photography. Lectures, demonstrations and projects. Assumes no prior knowledge of photography. Students must have a camera with adjustable shutter speed, aperture and light meter.
Upon successful completion of this course, the student should be able to.
... Show a knowledge of historic and contemporary concepts of photography.
. . . Demonstrate a knowledge of the functions of the camera and the ability to control lighting situations.
. . . Demonstrate the ability to perform all the necessary dark-room techniques.
... Demonstrate useful professional presentation techniques.
. . . Comprehend and sensitively apply the visual elements of line, shape, value, texture, space and motion, and the design principles of balance, rhythm, dominance, contrast, variation and unity to photography projects.
... Complete the creative problem-solving process from planning and discovery to implementation and evaluation.
... Begin to experiment by taking risks through the process of exploration and revision during the creative problem solving process.

## 108 Elementary Studio-Drawing and Painting (3) AH1

6 hours lecture/lab per week
A beginning course for the non-Art major who desires to learn how to draw and paint. Required supplies usually cost the student $\$ 80$ $\$ 150$.
Upon successful completion of this course, the student should be able to:

Understand the process of visually expressing on a twodimensional plane what is seen.
Appreciate various forms of art expression found in drawing and painting through the act of doing.
... Show proficiency in the use of the art elements.
... Draw in more than one medium and use different drawing techniques.
... Execute works in a painting medium.
... Demonstrate creativity in creating an original work of art.

## 111 Introduction to Watercolor Painting (3) AH1 <br> 6 hours lecture/lab per week <br> Recommended preparation: ART 101, 113, 114 (may be taken concurrently)

This course provides an introduction to watercolor materials and techniques.
Upon successful completion of this course, the student should be able to:
... Select and use watercolor materials.
. . Show proficiency in the use of various watercolor techniques.
. . . Utilize the various art elements in communicating visual ideas.
... Utilize various design principles in composing a watercolor painting.
. . . Complete the creative problem-solving process, from planning and discovery to implementation and evaluation.

## 112 Introduction to Computer Art (3) AH1

6 hours lecture/lab per week
Recommended preparation: ART 101, 115
This course provides an introduction to technology, vocabulary and procedures of computer produced images; and the use of the computer as an artist's tool.
Upon successful completion of this course, the student should be able to:

Demonstrate an understanding of the technology and vocabulary of computer art.
Demonstrate an understanding of how the computer is used as a contemporary art tool through an examination of how computer art fits into the contemporary artist's environment.
Understand and use several computer graphic systems, application software packages, input and output devices.
Understand and complete the following computer art procedures: layout, drawing, painting and elementary programming. Sensitively apply the visual elements of line, shape, value, color, texture, space, time and motion and the elements of balance, rhythm, dominance, contrast, variation and unity to this process.
Complete the creative process from preliminary drawing or planning stage through revisions to the final output print.
. . . Learn to be experimental by taking risks through the process of exploration during the creative process.
. . . Learn to use the computer to create personal visual images.
ART CORE. ART 113, 114, 115 are intended for potential Art majors, but are also open to others. These courses are the building blocks for all of the 200 level studio courses.

## 113 Introduction to Drawing (3) AH1

## 6 hours lecture/lab per week

Recommended Preparation: ART 101 (may be taken concurrently) Two-dimensional visualization and rendering of forms, spaces and ideas through a variety of approaches and media.
Upon successful completion of this course, the student should be able to:
... Demonstrate a skillful use of a variety of drawing materials and techniques.
... Use the basic elements of the visual arts (line, value, shape, texture, modeling, pattern, composition) to arrive at an illusion of space, image and form.
... Develop an awareness of the interaction of seeing, imagining and drawing.
. . Demonstrate hand-eye coordination.
114 Introduction to Color (3) AH1 6 hours lecture/lab per week
Recommended Preparation: ART 101 (may be taken concurrently) Theory and application of color as related to studio practice.
At the end of the course the student should be able to:
.. Demonstrate an ability to perceive the multiple dimensions of color: hue, value, intensity and temperature.
. . . Demonstrate a solid understanding of color interaction, theories and vocabulary.
... Demonstrate skills in paint mixing, matching and application.
. Utilize cut colored paper and paint to creatively solve posed color problems.
... Begin to develop a personal sense of color.

115 Introduction to Design (3) AH1
6 hours lecture/lab per week
Recommended Preparation: ART 101 (may be taken concurrently)
This course introduces elements of form and principles of design. It emphasizes projects in basic two-dimensional design.
Upon successful completion of this course, the student should be able to:
.. Comprehend and sensitively apply the visual elements of line, shape, value, color, texture, space, time and motion; and the design principles of balance, rhythm, dominance, contrast, variation and unity to design assignments.
. Complete the creative problem-solving process from the preliminary planning stage and exploration through revisions to the final product.
.. Learn to experiment by taking risks through the process of exploration during the creative problem solving process.
. . Learn to skillfully use traditional and contemporary design media, i.e., paint, paper, computer graphics, etc.
. . . Employ design theory to practical application.
... Demonstrate awareness of structure in design through use of grid and modular systems.
... Appreciate and understand the scope of design in the contemporary world.

## 123 Introduction to Painting (3) AH1

6 hours lecture/lab per week
Recommended Preparation: ART 101, 113, 114 (may be taken concurrently)
This course introduces the student to theory and practice of painting; basic material and technical procedure will beaddressed. Oil or acrylic paints will be used.
Upon successful completion of this course, the student should be able to:
... Comprehend and sensitively apply the visual elements of line, shape, light and shadow, color, texture, space, and motion; and the design principles of balance, rhythm, dominance, contrast, variation and unity to painting projects.
Begin to perceive color, shape, edge and space with increased sensitivity.
. . . Complete the creative problem-solving process from planning and discovery to implementation and evaluation.
... Trust one's own decisions and insights during the creative problem-solving process.
... Demonstrate an understanding of painting materials, procedures and terminology.
Experience paint as structure and demonstrate an awareness of the plastic quality of paint.
Establish procedures for the painting process from thumbnail sketches, canvas preparation to the completion of a painting.

## 152 Introduction to Jewelry (3) AH1

6 hours lecture/lab per week
Recommended Preparation: ART 101
Jewelry studio experience in assemblage, carving, mold-making, metal construction and casting.
Upon successful completion of this course, the student should be able to:

Demonstrate an understanding of the following jewelry
processes: assemblage, carving, mold making, metal construction and casting.
Utilize creative problem-solving and proceduralization in the jeweiry process.
Demonstrate understanding of and ability to apply the visual elements of line, texture, color, volume and mass; and the design principles of balance, directional force, rhythm, dominance, contrast, variation and proportion.
Demonstrate a basic understanding of drawing as a means of notation, conceptualization and visual organization.
. . . Demonstrate an awareness of historic and contemporary examples of jewelry.
... Begin to use the jewelry process to express personal imagery.

THE 200 LEVEL STUDIO COURSES in photography, drawing, figure drawing, painting, ceramics, visual studies and sculpture (ART 207, 208, 213, 214, 223, 243, 244, 247, 253) are intended primarily for ART majors but are also open to others. They build on skills and concepts learned in ART 101, 106, 113, 114, 115.

## 207 Intermediate Photography: Black/White Studio (3)

6 hours lecture/lab per week
Prerequisite: ART 107 or instructor's consent
This course teaches black and white photography emphasizing commurication and self expression. Lectures, demonstration and projects. Student must supply camera and materials.
Upon successful completion of this course, the student should be able to:
... Develop an increased awareness, appreciation and articulation of the aesthetic issues of $B / W$ photography.
... Develop language skills in critical evaluation of $B / W$ photographs.
. . . Perceive and photograph shape, line, texture, and value relationships with increased sensitivity and personal confidence.
... Trust one's own decisions, insights and perceptions during the creative problem-solving process.
... Communicate visual concepts through the BMW photographic process.
... Develop more indepth procedures for the B/W photographic technical process, including exposure development ratios for film, focus functions, basic lighting, and finishing, spotting and mounting of prints.
. Develop refined BM printing techniques.

## 208 Intermediate Photography: Color Studio (3)

6 hours lecture/lab per week
Prerequisite: ART 107 or instructor's consent.
Color in photography emphasizing communication and self expression. Lectures, demonstration and projects. Student must supply camera and materials.
Upon successful completion of this course, the student should be able to:
. . . Acquire a working knowledge of recent developments of color photography, as well as a historical perspective.
... Demonstrate a working knowledge of the types of lighting, filters, color film and chemistry used in color photography processes.
... Proceduralize the color photography technical process.
... Develop language skills in critical evaluation of color photography.
... Perceive and photograph color relationships with increased sensitivity and personal confidence.
... Trust one's own decisions, insights and perceptions during the creative problem-solving process.
. . Begin to communicate visual ideas through the color photographic process.
. . . Trust one's own decisions, insights and perceptions during the creative problem-solving process.
. . . Begin to communicate visual ideas through the color photographic process.

## 212 Intermediate Computer Art (3)

6 hours lecture/lab per week
Prerequisite: ART 112 or instructor's consent
This course provides studio experience in concepts and techniques of computer art, including high resolution image production, image processing, elementary animation and three dimensional modeling.
Upon successful completion of this course, the student should be able to:
... Understand and use the three main computer art software systems, specifically color-mapping, true color and 3-D modeling.
. . Comprehend and complete the following computer art procedures: high resolution image production, image processing, elementary animation, three dimensional texture mapping and basic computer literacy, including elementary disk operating system (DOS) procedures and batch file processing.
. . Use creative problem-solving procedures to develop unique personal visual images.
... Demonstrate an increased understanding of how the computer is used as a contemporary art tool.
... Sensitively apply the visual elements of line, shape, value, color, texture, space, time and motion; and the design principles of balance, rhythm, dominance, contrast, variation and unity to this process.
... Complete the creative process from preliminary drawing or planning stage through revisions to the final output.
... Access resources outside the college environment for advanced input and output needs.
... Demonstrate an increased understanding of the technology and vocabulary of computer art.

## 213 Intermediate Drawing (3)

6 hours lecture/lab per week
Prerequisites: ART 113 or instructor's consent
Recommended Preparation: ART 101 (may be taken concurrently) A continuation and development of ideas and skills introduced in ART 113. Drawing concepts unique to this century are explored. Upon successful completion of this course the student should be able to:
... Experience drawing as a way of "seeing" involving all the faculties of the mind: perception (observation, sensation), intellect (analysis, organization, synthesis), intuition and emotion.
. . . Demonstrate an increased familiarity with the language of art; the basic vocabulary of drawing: line, shape, value, color, form and space; and organize these elements and their relationships.
... Demonstrate an ability to integrate the dynamic nature of the picture plane with the representational aspects of drawing.
... Demonstrate an ability to focus on the "process" of drawing through the various developmental states of observation, analysis, construction, reorganization and transformation.
... Develop skills in drawing as a descriptive language for greater personal expression.
.. . Show a developed proficiency in the use of a variety of drawing materials, techniques and concepts, particularly pertaining to drawing concepts unique to this century.

## 214 Life Drawing (3)

6 hours lecture/lab per week
Prerequisile: ART 101,113 or consent of instructor
Recommended preparation: ART 213
Study of the figure. Repeatable.
Upon successful completion of this course, the student should be able to:
. . . Begin to draw the human figure accurately.
... Demonstrate a knowledge of the landmarks of skeletal and musculature systems of the human figure.
... Sensitively apply the visual elements of line, shape, volume, mass, value, color and space; and the design elements of balance, proportion, rhythm, movement and dominance to the drawing process.
... Show a developed proficiency in the use of a variety of drawing materials and techniques.
... Begin to draw the human figure expressively.

## 223 Intermediate Painting (3)

## 6 hours lecture/lab per week

Prerequisite: ART 123 or instruclor's consent
Painting from observation with attention to contemporary issues and technical procedures. Oil or acrylic paint will be used. Course may be repeated once for credit.
Upon successful completion of this course, the student should be able to:

Acquire a working knowledge of recent developments in the pictorial structure of painting.

"Ode to Leonardo," a drawing by KCC student Jamen Chai, was one of the entries accepted by College Art '93, a juried show.
.. Become familiar with alternative contemporary strategies for making paintings, based on perceptual painting experience.
... Develop language skills in critical evaluation of paintings.
... Understand the dynamic organization of pattern, two and three dimensional space, and rhythmic demands of the flat picture plane.
... Perceive and paint shape, edges, color relationships and space with increased sensitivity and personal confidence.
... Demonstrate during the painting process an understanding that perceptual experience leads to the development of painting abstraction.
... Trust one's own decisions, insights and perceptions during the creative problem-solving process.
. . Begin to develop intuitive artistry by discovering personal technical alternatives in painting.
... Begin the search for an original and personal vision.
. . . Establish procedures for the painting technical process.

## 243 Intermediate Ceramics: Hand Building (3)

6 hours lecturellab per woek
Prerequisite: ART 105 or instructor's consent
Development of sculptural and vessel concepts using hand building techniques.
Upon successful completion of this course, the student should be able to:
... Demonstrate an understanding of the three basic hand building techniques and the potential of each as structural and decorative elements.
... Demonstrate an understanding of two different clay bodies and their potential as structural and decorative elements.
... Demonstrate an awareness of the varieties of materials and techniques of the glazing and firing processes.
. . . Demonstrate innovative and inventive problem-solving, through creative decision-making and insightful articulation of finished ceramic vessels and sculptural forms.
... Demonstrate an ability to generate creative ideas through three-dimensional visualization techniques.
... Demonstrate an understanding of color and color theory as it relates to three-dimensional form in the use of glazes and oxides.
... Demonstrate an understanding of historic and contemporary examples of hand-built ceramics.
... Demonstrate an understanding of drawing as a tool for conceptualization and documentation of personal imagery and technical investigation of the ceramic process.
... Demonstrate an appreciation for and awareness of ceramic objects.
... Demonstrate an awareness of the visual elements and the design principles while creating ceramic vessels and sculptural forms.
... Demonstrate an ability to articulate the concepts and intent of a completed piece.

244 Intermediate Ceramics: Wheel Throwing (3)
6 hours lecture/lab per week
Prerequisite: ART 105 or instruclor's consent
Development of vessel and sculptural concepts using wheel throwing techniques.
Upon successful completion of this course, the student should be able to:
... Demonstrate through completed projects a basic proficiency in wheel throwing techniques.
. . . Demonstrate an understanding of color and color theory through the use of various decorating techniques: slips, oxides, engobes, stains and glazes.
... Demonstrate an understanding of clay bodies, oxidation and reduction firing and of the basic chemical compositions of glazes.
... Demonstrate an awareness of the visual elements and the design principles while creating ceramic vessels and sculptural forms.
... Demonstrate innovative and inventive problem-solving, through creative decision-making and insightful articulation of finished ceramics vessels and sculptural forms.
... Demonstrate an ability to generate creative ideas through three-dimensional visualization techniques.
... Demonstrate an understanding of drawing as a tool for conceptualization and documentation of personal imagery and technical investigation of the ceramic process.
. . . Demonstrate an understanding of historic and contemporary examples of wheel made ceramics.
... Demonstrate an ability to articulate the concepts and intent of a finished ceramic object.

## 247 Perception and Notation: Space (3)

6 hours lecture/lab per week
Prerequisite: One 100-level art course (may be taken concurrently) or instructor's consent.
Recommended Preparation: ART 101 (may be taken concurrently) This course provides an investigation of the perception of space and its notation in two and three dimensional media; theory and application of real and illusory space in the visual arts.
Upon successful completion of this course, the student should be able to:
... Investigate spatial notational theories and their applications.
. . . Experience the perception of space and its notation in two and three dimensional media, including computer graphics.
... Explore imagery of the "mind's-eye" and the process of visualization.
... Understand the function of the eye and brain concerning space perception and the phenomenon of optical illusion.
... Complete the creative problem-solving process, fromplanning and divergent thinking to implementation and evaluation.
... Trust one's own decisions and insights during the creative problem-solving process.

## 253 Sculpture-Figure Modeling (3)

6 hours lecture/lab per week
Prerequisite: ART 106 or instructor's consent.
Modeling the human figure in clay, with emphasis on the basic skeletal structure and muscles in relation to surface modulation, proportion, volume and gesture.
Upon successful completion of this course, the student should be able to:
... Demonstrate through finished sculpture an understanding of the human figure; its basic skeletal and muscular structure, proportion, volume and gesture.
... Demonstrate an understanding of figure and portrait modeling, mold-making, fabrication and the casting process.
... Demonstrate an understanding of drawing as a tool for conceptualization and documentation of personal imagery.
... Demonstrate an awareness of historic and contemporary examples of sculpture.
. . Trust one's own decisions, insights, and perceptions during the creative problem-solving process.
. . Demonstrate an ability to articulate the concepts and intent of a finished sculpture.

264 Intermediate Design-3D (3)
6 hours lecture/lab per week
Prerequisite: ART 115 or instructor's consent
This course develops basic three-dimensional design concepts emphasizing the elements and principles of art.
Upon successful completion of this course, the student should be able to:

Utilize the three-dimensional elements (i.e., mass, space, texture, light, movement) to solve three-dimensional design problems.
. . . Complete the creative problem-solving process from the preliminary planning stage and exploration through revision to the final product.
Understand the principles of three-dimensional design.
. . . Demonstrate a knowledge of different media in working subtractively and additively to solve three-dimensional design problems.
.. Demonstrate a knowledge of the historical and cultural traditions, forces and movements which have shaped three dimensional form.
. . . Trust one's own decisions, insights and perceptions during the creative problem-solving process.
Appreciate and understand the scope of three-dimensional design in the contemporary world.

## 269 V Study Abroad (Designated Region, Variable Credit)

30 Hours per credit lecture/lab trip total.
An on-site study of the arVarchitecture of a designated location using lectures and discussions and/or an art studio medium as a tool to analyze, understand and appreciate the development of that region's arvarchitecture.
Upon successful completion of this course, the student should be able to:
... Become more informed about the peoples and culture of the designated location(s) visited.
. . . Become aware of internationalism and an interdependency of cultures.
Understand the development of the art and/or architecture of the designated location(s) visited.
. . Use group discussions, essays, examinations and/or a visual studio process as a tool to analyze, understand and sensitively appreciate and appraise forms and structures of the art studied.

## 270 Introduction to Western Art (3) AH1

3 hours lecture per week
Prerequisites: ART 101 or HIST 151
Major developments in Western art from prehistory to present.
Upon successful completion of this course, the student should be able to:
... Demonstrate an understanding that art is a visible manifestation of cultural values, a mirror of "reality" of its time period. Show a knowledge of major historical and cultural trends of Western art, including knowledge of various materials, techniques and art forms.
... Demonstrate an understanding of the present by comparing and contrasting it with the past.
... Analyze style both descriptively and comparatively.
... Demonstrate a knowledge of the diffusion of trends and styles from one country to another over space and time.
... Incorporate writing as a tool for analyzing art forms.

## 280 Introduction to Eastern Art (3) AH1

## 3 hours lecture per week

Prerequisites: ART 101 or HIST 151
Major developments in arts of Asia.
Upon successful completion of this course, the student should be able to:
... Demonstrate an understanding that art is a visible manifestation of cultural values, a mirror of "reality" of its time period.
... Show a knowledge of major historical and cultural trends of Asian art, including knowledge of various materials, techniques and art forms.
... Demonstrate an understanding of the present by comparing and contrasting it with the past.
... Analyze style both descriptively and comparatively.
. . . Demonstrate a knowledge of the diffusion of trends and styles from one country to another over space and time.
... Incorporate writing as a tool for analyzing art forms.


100 Asian Perspectives (3) AH2, SS
3 hours lecture per week
Prerequisite: ENG 22 or higher
This course will examine contemporary Asia using the perspectives of the Humanities and Social Sciences. Students will examine systems of values and their expression, historical experiences, social institutions and current issues of South, Southeast and East Asia.
Upon successful completion of this course, the student should be able to:
... Develop an appreciation and awareness of Asia.
... Develop an understanding of the environments and experiences of Asian peoples.
... Analyze events and conditions in contemporary Asia and options for the twenty-first century.
... Demonstrate an understanding of political, social, cultural, economic and other contributions of Asian civilizations.
. . . Critically examine the values of various Asian groups.
... Demonstrate familiarity with the geography of Asia and its interrelationship with the rest of the globe.
... Analyze contemporary issues and views of Asian peoples reflected in the mass media and other sources.
... Demonstrate an understanding of Asian cultural traditions, including their value systems, institutions, aesthetic expressions and their contemporary relevance.
... Identify the importance of different political, social and religious traditions of Asia.
... Identify and explain ethnicity in the Asian context.
. . . Demonstrate familiarity with the disciplines within the social sciences and humanities.


110 Survey of Astronomy (3)
3 hours lecture per week
Prerequisites: MATH 25
Recommended preparation: PHYS 100, SCI 122 or high school physics
A survey of astronomy and astronomical measurement techniques with emphasis on the structure, evolution and dynamics of the physical universe.
Upon successful completion of this course, the student should be able to:
... Explain how scientists use both qualitative and quantitative analysis methods to investgate how the universe works.
. . Understand the basic laws of physics which govern the movements and workings of the planets, stars and galaxies.
...Identify the instruments and methods astronomers use to investigate the physical universe.
.. Explain the nature, characteristics and distribution of various forms of matter in the physical universe.
. . . Define the theories of the origin and evolution of the planets, stars, galaxies and the universe itself.
... List the current theories of the origin of life in the physical universe.


241 Fundamentals of Biochemistry (3) NS2
3 hours lecture per week
Prerequisite: MATH 25 or equivalent
Recommended Preparation: high school science
The fundamentals of general, inorganic and bio-organic chemistry as they apply to living systems. This course can be taken as a Natural Science elective or to complete the biochemistry/chemistry requirement for some of the programs in Allied Health at Kapi'olani and at the UH-Mānoa campus.
Upon successful completion of this course, the student should be able to:
. . . Use the metric system and scientific notation.
. . . Understand modern theories of atomic structure and radioactivity.
... Understand modern concepts of chemical bonding.
. . . Write chemical formulas and names.
... Use kinetic molecular theory to explain chemical phenomena.
... Perform calculations using the mole concept.
. Write and balance chemical equations.
... Perform calculations in sioichiometry.
... Understand the concept of equilibrium.
... Understand Acid Base Theory and pH.
. . . Understand solution chemistry and the behavior of dissolved substances.
. . . Name the basic types of organic molecules.
... Explain the physical and chemical properties of hydrocarbons.
... Explain the physical and chemical properties of the major organic functional groups.

244 Essentials of Biochemistry (3) N52
3 hours lecture per week
Prerequisite: CHEM 151 or 161
Chemical principles and concepts of living systems. The composition, function and Iransformation of biological substances in animals, plants and micro-organisms. Sufficient organic chemistry is included to provide understanding of these principles.
Upon successful completion of this course, the student should be able to:
... Draw accurate pictures of molecules using conventional methods employed by chemists.
... Draw diagrams of the 20 common organic functional groups.
. . Name molecules using systems of nomenclature accepled by chemists.
... Draw structural isomers of a compound having been given the molecular formula.
... Distinguish between structural, geometric and optical isomers.
. . . Predict and draw the products of a chemical reaction given the reactants.
... Understand and explain how optical activity occurs in a molecule.
. . . Explain the basic concepts of Acid Base Theory.
... Distinguish between the molecules of three hasic food groups: carbohydrates, fats and proteins.
Show the major metabolic pathways using net chemical reactions, flow diagrams and, in some cases, very detailed drawings of all molecules involved.
Show in detail how energy in the form of ATP is derived from food during the metabolism of canbohydrates and fats.


## 20 Beginning Biology (3)

3 hours lecture per week
A non-laboratory course covering the cell, representative plants and animals, mammalian structure and function, heredity and evolution.
Upon successful completion of this course, the student should be able to:
... Describe a cell, its parts and functions.
. . . Explain how green plant structure has adapted to convert solar energy to the usable chemical bond energy trapped in carbohydrates.
... Describe the basic macromolecules that organisms use to meet their nutritional requirements and how they are synthesized and degraded.
... Describe how the parts of an organism's tissue and organ systems help to maintain that organism.
... Explain asexual and sexual reproductive patterns in plants and animals including development.
... Describe Mendelian Genetics.
... Discuss the theory of evolution.
... Examine the interrelationship of abiotic and biotic factors on the balance of nature.
.. Relate the sources and the effects of pollutants to the quality of the environment.

22 Human Anatomy and Physiology (3)
3 hours lecture per week
Thestructure and function of the human body, including reproduction. A non-laboratory course for students with no previous work in chemistry or physics.
Upon successful completion of this course, the student should be able to:
.. Describe the detailed structure and composition of the human body.
. . . Explain the functions of body parts and the interrelation of their
structure with function.
. . . Discuss the levels of biological organization within the body: cells, tissues, organs and the organ systems
... Demonstrate an intimate familiarity with the 10 major organ systems: epithelial, skeletal, muscular, nervous, circulatory, endocrine, respiratory, digestive, urinary and reproductive.
. . . Describe the effects of medical advancements in diagnosis and treatment on health and well-being.

## 130 Anatomy and Physiology (4) N51

4 hours lecture per week
Recommended Preparation: CHEM 101 or a higher level chemistry ofrbiochemistry course.
A basic course in the structure and function of the human body which includes a study of its gross anatomy, microanatomy, physiology, pathology and pathophysiology.
Upon successful completion of this course, the student should be able to:
... Describe the structural and functional relationships of the body as a whole, its systems and its organs.
... Analyze the structure and function of the cell and its interactions with the environment.
... Discuss the structure of the skeletal and muscular organs related to locomotion and support.
... Describe the ultrastructure of skeletal muscle and the mechanism of muscular contraction.
... Describe the anatomy and physiology of the endocrine system and relate hormonal regulation to the pathophysiology of the body.
... Describe the role of the nervous system in functional control of the humanbody, describe the nerve impulse mechanism, understand the role of the autonomic nervous system in homeostatic maintenance and analyze the integration of sensation.
... Discuss the anatomical structures and components of the
cardiovascular and lymphatic systems and demonstrate an understanding of cardiovascular and immune physiology.
Describe the anatomical structures of the respiratory system and demonstrate an understanding of pulmonary physiology. Describe the anatomy of the digestive system and analyze the physiological changes of the digestive process.
Describe the anatomy of the urinary system and explain how the urinary organs function in the removal of cellular wastes from the blood and transport the wastes from the body.
Demonstrate an understanding of the role of fluids, the movement of ions and the acid-base balance in maintaining homeostasis of the body.
Describe the anatomical structures of the reproductive system and their functions, including the human sexual response.

## 130L Anatomy Laboratory (1) N51

3 hours lab per week
Credit or concurrent enrollment in BIOL 130 preferred
Gross and microscopic anatomy of the human body with special emphasis upon the skeleton, muscles, heart, blood vessels and the nervous system.
Upon successful completion of this course, the student should be able to:
. . Identify the anatomical structures of the muscular, skeletal, nervous, hormonal, circulatory, respiratory, digestive, urinary and reproductive systems.
Describe the position and structural relationships of the anatomical components of the muscular, skeletal, nervous, hormonal, circulatory, respiratory, digestive, urinary and reproductive systems.

## 171 General Biology I (3) N51

3 hours lecture per week
Recommended Preparation: CHEM 101, 151, 161 or BIOCH 241 Intended to provide the beginning student with a background in the fundamentals of the Biological Sciences. Suitable for students preparing for careers in medical technology, nursing, the life sciences and medicine.
Upon successful completion of this course, the student should be able to:
. . . Define the basic principles held in common among the diversity of Biological Sciences.
... Describe the fundamentals of the genetics of Natural Selection, its history, its influence on modern biological thinking and research and competing explanations of evolution.
Apply knowledge of inorganic and biological chemistry principles to cell biology, metabolism and the origin of life.
. Describe cell structure and cell metabolism.
. . . Describe the distinguishing characteristics of microorganisms: prokaryotes, viruses, protists and fungi.
Demonstrate knowledge of the metric system and scientific notation.

## 171L General Biology Laboratory I (1) N51

3 hours lab per week
Prerequisite: Credit or registration in BIOL 171
Intended to provide the beginning student with selected laboratory experiences concerning the fundamentals of Biological Science.

The focus of the lab exercises will be organic molecules and cell structure and function.
Upon successful completion of this course, the student should be able to:
... Demonstrate approved techniques of handling laboratory specimens and equipment.
... Record data accurately and in proper form.
... Describe the characteristics and properties of cellular structures and biomolecules studied in the laboratory.
. . . Design and use dichotomous keys.
... Understand the principles of population genetics and solve multi-hybrid and sex-linked genetics problems.

## 172 General Biology II (3) NS1

3 hours lecture per week
Prerequisite: BIOL 171
Intended to provide the beginning student with the second part of an adequate background in the fundamentals of the Biological Sciences. Suitable for students preparing for careers in medical technology, nursing, the life sciences and medicine.
Upon successful completion of this course, the student should be able to:
... Demonstrate basic knowledge of Botany - The Plant Kingdom: evolution and diversity of plants, reproduction and development in plants, transport mechanisms of plants and regulation and control in plants.
. . . Demonstrate basic knowledge of the Animal Kingdom (including Humans): evolution and diversity (including taxonomy and syslematics), support and movement, digestion and nutrition, respiration, circulation and immunity, homeostasis - thermoregulation, osmoregulation and excretion; endocrine systems, neurons and nervous systems, sexual reproduction and development.
... Discuss the principle concepts in Animal behavior: evolutionary considerations, mechanisms of behavior and developmental behavior; comparative animal behavior.
... Discuss the principles of Ecology: biosphere and biomes, communities and ecosystems, populations; environmental interactions.

## 172L. General Biology Laboratory II (1) NS1

3 hours lab per week
Prerequisile: Credit or registration in BIOL 172
Intended to provide the continuing biology student with further laboratory experiences in the fundamentals of Biological Science. The focus of the lab exercises will be microbes, plants and animals. Upon successful completion of this course, the student should be able to:
... Demonstrate approved techniques of handling laboratory specimens and equipment.
... Record data accurately and in proper form.
... Describe the anatomy of microbes and the characteristics of microbial growth.
... Describe the anatomy, adaptations and life cycles of plants.
... Describe the anatomy, adaptation and behavior of several study animals.
... Demonstrate proper ecological sampling techniques.


## 101 General Botany (3) N51

## 3 hours lecture per week

Registration in BOT 101 L optional
Recommended Preparation: CHEM 101 or a higher level chemistry or biochemistry course
Growth, functions and evolution of plants, their relations to the environment and particularly to humans and their activities.
Upon successful completion of this course, the student should be able to:
. . . Demonstrate knowledge of the important biological concepts and theories (cell theory, energy flow, photosynthesis, growth, reproduction, etc.); and recognize that they may be explained in terms of the natural laws of physics and chemistry.
. . . Know the unique anatomical characteristics of the major plant groups and relate these structures to the functions they perform.
. . Demonstrate the basic knowledge of plant genetics and evolution of floral structures in terms of ecology and morphology.
... Develop a balanced and pragmatic knowledge in botany.

## 101L General Botany Laboratory (1) N51 <br> 3 hours lab per week

Prerequisites: Credit or registration in BOT 101 required
Laboratory observations and experiments illustrating basic principles of plant biology.
Upon successful completion of this course, the student should be able to:
. . . Demonstrate the ability of critical thinking and logical reasoning through the use of the scientific method.
. . Work independently or in groups in the laboratory by performing observations, drawings, dissections and behavioral objectives.
... Develop laboratory skills and techniques, including skill in the preparation of laboratory reports.

## 105 Ethnobotany (3) SS

## 3 hours lecture per week

Plants and their influence on the culture of Hawai'i and the Pacific; uses of cultivated and wild plants of the world.
Upon successful completion of this course, the student should be able to:
. . . Demonstrate a knowledge of habits, habitats, reproductions, and interactions of plants with the environment.
. . . Identify the role and influence played by plants on the culture of Hawai'i and the Pacific.
... Demonstrate a knowledge of the economic importance and ecology of cultivated and wild plants of the world.
... Understand and appreciate the complete dependence of all living things on green plants.

130 Plants in the Hawaiian Environment (3) N51
3 hours lecture per week
Registration in BOT 130 L optional
Introduction to the plant species and communities of Hawaiian ecosystems; their evolution, ecology and economic value to humans. Includes observations and systematics of native and introduced flora.
Upon successful completion of this course, the student should be able to:
. . . Discuss the geologic history of the Hawaiian Islands.
... Discuss the arrival and establishment of native and introduced plant species.
. . . Discuss major Hawaiian ecosystems.
... Discuss variations in plant parts, with special consideration to the relationship between structure and function.
. . . Recognize common native and introduced plant species.
. . . Discuss the ecology and economic value of native and introduced plant species.
Recognize the effect of man on the flora of the Hawaiian islands.


Photo by Moriso Teraoka This variety of night blooming cereus is one of the many unusual cacti found in the prize winning succulent and herb garden on the hillside below the administration building.

## 130L Plants in the Hawaiian Environment Laboratory (1) N51

3 hours lab per week
Prerequisite: BOT 130 (may be concurrent)
Observation of plant species, communities and their environment. Application of field survey methods. Field trips.
Upon successful completion of this course, the student should be able to:
. . . Critically think and logically reason through the use of the scientific method.
.. . Work independently or in groups in the laboratory by performing observations and dissections and by completing behavioral objectives for each lab exercise.
. . . Recognize the major plant families.
. . . Recognize and identify economic plants.
... Discuss the effects of environmental factors on plant distribution and dispersal.


## 20 Introduction to Business (3)

3 hours lecture per week
Fundamentals of American business organizations, management and operations. Impact of economic, political, legal and social factors and exploration of business career opportunities.
Upon successful completion of this course, the student should be able to:
. . . Demonstrate knowledge of the nature of American business its ownership, organizational structure, management and basic functional areas of operations.
... Demonstrate knowledge of the economic, legal, political and social environment in which it operates.
... Reflect knowledge of career opportunities in business.

## 25 Entrepreneurship (3)

3 hours lecture per week
Prerequisite: BUS 20
A practical approach to small business management in planning, organizing, controlling, operating and closing of a business establishment.
Upon successful completion of this course, the student should be able to:
... Demonstrate broad knowledge of planning procedures and considerations involved in organizing, locating and financing small business ventures.
... Apply basic management tools and strategies appropriate for planning, organizing, actuating, and controlling small business operations.
... Recognize common pitfalls contributing to small business failures.
... Demonstrate acquaintance with small business practices having significant influence in Hawai'i's economy.
... Comprehend that many environmental problems can be understood and solved by the application of basic chemical principles.
. Describe the categories, sources and effects of the major types of atmospheric and water pollutants.
... Discuss major environmental issues and become a generally well-informed citizen with regard to issues involving science.

## 55 Computational Problems in Business (3)

3 hours lecture per week
Prerequisite: Completion of MATH 1 or equivalent performanceon math placement test.
Basic math applications to common business and financial problems utilizing an electronic calculator.
Upon successful completion of this course, the student should be able to:
. . . Demonstrate proficiency in the use of the electronic calculator and 10-key adder.
. . . Demonstrate knowledge of basic arithmetic processes including fractions, decimals and percentages and their application to business problems.
... Solve business math problems for banking and sales records, interest in finance, markup and markdown, cash and trade discounts, taxes, payroll, depreciation, inventory, metric and basic financial reports.

## 56 Advanced Computational Problems in Business (3)

3 hours lecture per week
Prerequisite: BUS 55
Advanced computational skills in solving advanced business and financial problems.
Upon successful completion of this course, the student should be able to:
. . Demonstrate understanding of common quantitative problems of business and finance.
. . . Analyze and solve business math problems requiring reasoning skills.

## 70 Human Relations in Business (3)

3 hours lecture per week
A functional approach to interpersonal relations stressing the development of proper business attitudes.
Upon successful completion of this course, the student should be able to:
... Demonstrate an understanding of the area of human relations in business dealing with self-improvement and group dynamics.
. . Display an awareness of the social competencies (knowledge, skills, understanding and attitudes) required of people managers and employees - to adjust, work and relate together successfully in a business setting.


## 100 Chemistry and Man (3) NS2

## 3 hours lecture per week

Basic concepts in chemistry utilizing mathematics only where necessary. Designed for the non-science major.
Upon successful completion of this course, the student should be able to:
. . Use the metric system and scientific notation.
. . . Explain basic conceptual models used to describe atomic structure and chemical bonding in molecules.
. . Write chemical formulas for molecules and compounds.
... Write and balance chemical equations.
. . . Explain the differences between physical and chemical changes.
... Explain the varying solubilities of substances in different solvents.
. . . Comprehend that many environmental problems can be understood and solved by the application of basic chemical principles.
. . . Describe the categories, sources and effects of the major types of atmospheric and water pollutants.
... Discuss major environmental issues and become a generally well-informed citizen with regard to issues involving science.

## 101 Elementary Survey of General, Organic

 \& Biochemistry (3) NS23 hours lecture per week
Prerequisite: MATH 24
Covers the basic concepts of general, organic and biochemistry at an elementary level. The course is specifically designed for students enrolled in the A.D. Nursing Program who have no previous chemistry background. Serves as a preparatory course for the CHEM 151 or 161 courses.
Upon successful completion of this course, the student should be able to:
. . . Performall the necessary mathematical manipulations needed to solve the chemistry problems presented in the course.
. . . Understand the basic concepts of the Kinetic Molecular Theory.
... Understand the system for classifying all forms of matter.
... Understand the basic atomic structure of an atom according to the Bohr Theory.
... Tell what type of chemical bond is formed between two elements.
... Understand how the periodic table is constructed and how it is used to obtain information concerning elements.
... Write formulas for simple chemical compounds and also name them.
... Understand the mole concept and perform calculations using this convention.
... Write and balance chemical equations.
. . . Explain how and why a given solvent is able to dissolve one solute but not another.
... Understand the concept of chemical equilibria.
. . . Understand the basic concepts of Acid Base Theory.
. . Understand the causes of radioactivity and some ways in which radioactive isolopes may be used in the field of medicine.
. . . Draw the 20 organic functional groups.
. . . Distinguish between the major food groups: carbohydrates, fats and proteins.

## 151 Elementary Survey of Chemistry (3) NS2

## 3 hours lecture per week

Prerequisite: MATH 25
This course is intended to provide the beginning student with an adequate background in the fundamentals of chemistry. It is suitable for students preparing for careers in medical technology, nursing and the life sciences.
Upon successful completion of this course the student should be able to:
.. Use the metric system and scientific notation.
.. Explain the difference between lonic, Polar covalent and NonPolar covalent bonding.
. . Use chemical equations to calculate weight or volume relationships in chemical reactions.
. . Understand and use the mole concept in solving chemical problems.
. . Explain a variety of conceptual models used in describing atomic and molecular structure, chemical bonding and Acid Base Theory.

## 151L Elementary Survey of Chemistry Lab (1) NS2

## 3 hours lab per week

Prerequisile: CHEM 151 (may be concurrent)
Experiments introducing laboratory techniques and illustrating chemical principles.
Upon successful completion of this course, the student should be able to:
. . . Demonstrate approved technique in handling laboratory equipment.
. . . Record data accurately and in proper form on the lab report sheets.
. . . Make and use measurements to calculate descriptive properties of matter such as: density, mass, volume, concentration, chemical formulas, etc.

152 Survey of Organic and Bio-organic Chemistry (3) NS2
3 hours lecture per week
Prerequisite: CHEM 151, 161, or 171
Structure, nomenclature, properties, reactions of organic compounds.
Upon successful completion of this course, the student should be able to:
... Describe the phenomenon of orbital hybridization and its usefulness in explaining chemical bonding.
. . . Explain isomerization in organic compounds.
... Explain the phenomenon of optical isomerization.
... Apply the knowledge obtained in CHEM 151 or 171 to the study of organic chemistry.
... Explain the differences in physical properties and chemical reactivity between the three classes of hydrocarbons: alkanes, alkenes and alkynes.
. . . Explain the differences between the different types of substitutinn and elimination reactions.
... Explain the differences in physical properties and chemical reactivity between the following classes of organic compounds: alcohols, carboxylic acid's, esters, ethers, aldehydes and ketones.
... Describe the general characteristics and reactions of molecules found in living systems: carbohydrates, fats and proteins.

## 152L Survey of Organic and Bio-organic Chemistry Laboratory (1) NS2

3 hours lecture per week
Prerequisite: CHEM 151L, 161L, or 171L, and prior credit or registration in CHEM 152
Techniques of preparation, purification and identification of organic compounds.
Upon successful completion of this course, the student should be able to:
... Demonstrate approved techniques in handling laboratory equipment.
... Record data accurately and in proper form on lab report sheets.
. . . Demonstrate laboratory procedures for separation, purification and identification of organic compounds.

## 161 General Chemistry I (3) NS2

3 hours lecture per week
Prerequisite: MATH 25 or 2 years high school algebra

## Recommended preparation: MATH 135

Fundamental concepts of chemistry. Problem solving is emphasized. This course is suitable for students planning careers in science, engineering, nursing, or other areas which require a general chemistry course. CHEM 161 may serve as a prerequisite for CHEM 152 in place of CHEM 151. Students who wish to take a lab course should enroll concurrently in CHEM 161 L.
Upon successful completion of this course, the student should be able to:
... Use the metric system and scientific notation.
... Explain the differences between lonic Polar covalent and NonPolar covalent bonding.
... Write the formulae for chemical compounds and molecules.
... Balance chemical equations.
... Use chemical equations to calculate weight or volume relationships in chemical reactions.
... Understand and use the mole concept to solve chemical/ stoichiometric problems.
... Understand the concept of chemical equilibrium.
... Explain a variety of conceptual models used in describing atomic and molecular structure, chemical bonding and Acid Base Theory.
... Explain Acid Base Theory.

## 161L General Chemistry I Lab (1) NS2

3 hours lab per week
Prerequisites: CHEM 161 (or concurrent enrollment); MATH 25 An optional laboratory course which accompanies CHEM 161. Experiments are performed which relate to the lecture material in CHEM 161.
Upon successful completion of this course, the student should be able to:
... Demonstrate approved techniques in handling laboratory equipment.
... Record data accurately and in proper form on the lab report sheets.
... Make and use measurements to calculate descriptive properties of matter such as: density, mass, volume, concentration, chemical formulas, etc.

## 162 General Chemistry II (3) NS2

3 hours lecture per week
Prerequisite: CHEM 161, 2 years high school algebra or MATH 27 (MATH 130 strongly recommended)
Emphasis on chemistry fundamentals and problem solving. Normally this course is followed in sequence by CHEM 272. Students who wish to take a lab course should enroll in CHEM 162 L concurrently with CHEM 162.
Upon successful completion of this course, the student should be able to:
... Calculate an equilibrium constant.
... Calculate an ionization constant.
... Calculate a solubility product constant.
... Show the relationship between equilibrium and ionization constants.
... Calculate the pH of a weak acid or weak base solution.
Calculate a hydrolysis constant.
... Calculate the pH of a solution undergoing hydrolysis.
... Use a solubility product constant to determine if precipitation will occur.
... Explain the difference between voltaic and electrolytic cells.
... Calculate standard and non-standard cell voltages.
. . . Calculate the free energy of a reaction.
... Explain the relationship between free energy and cell voltage.
... Calculate the enthalpy for a given chemical reaction using heats of formation of reactants and products.
... Explain the relationship between free energy, entropy and enthalpy.
. . Explain the concepts of nuclear fission and fusion.
. . . Explain the difference between radioactive and non-radioactive isotopes.
... Predict the products of a nuclear decay scheme given the starting isotope and types of emissions occurring.
. . . Describe how a nuclear reactor operates.
... Distinguish between the basic type of organic molecules: alkanes, alkenes and alkynes.
. . . Name the basic types of organic molecules.

## 162L General Chemistry II Lab (1) NS2

3 hours lab per week
Prerequisites: CHEM 162 (or concurrent enrollment); MATH 25; CHEM 161L
Upon successful completion of this course, the student should be able to:
... Demonstrate approved techniques in handling laboratory equipment.
... Record data accurately and in proper form on the lab report sheets.
... Make and use measurements to calculate descriptive properties of matter such as: ionization constants, solubility product constants, pH , degree of hydrolysis and rates of chemical reactions.

## CHINESE (CHN)

## 50 Basic Conversational Mandarin (3)

3 hours lecture per week
A basic course in conversational Mandarin which helps students to develop listening and speaking skills as they better understand the social/cultural context of the Chinese language.
Upon successful completion of the course, the student should be able to:
... Produce with reasonable accuracy the phonetic sounds of Mandarin Chinese, including tones, initials and finals.
... Demonstrate an understanding of the basic structure patterns by creating sentences based on textbook vocabulary and patterns.
... Carry out tasks involving a variety of activities such as greetings, shopping, telephoning, inquiring, telling time, giving directions, eating out, etc.
... Read important directional signs in Chinese characters.
... Understand various aspects of Chinese language and culture.
. . . Develop Chinese dialogues directly relating to his/her interests of career goal.

## 101 Elementary Mandarin I (4) FL

3 hours of lecture, 2 hours of lab per week
A course designed for students with no background in the Mandarin dialect of Chinese. It is an introduction to understanding, writing and speaking Mandarin.
Upon successful completion of the course, the student should be able to:
... Read 90 characters and 85 special combinations.
... Write 90 characters and compose sentences with them.
... Properly pronounce and intonate words, phrases and sentences.
... Understand how the language reflects its culture.
... Appropriately vary vocabulary and usage in different social situations.

## 102 Elementary Mandarin II (4) FL

3 hours of lecture, 2 hours of lab per week
Prerequisite: CHN 101 or equivalent.
A continuation of CHN 101. The four skills of listening, speaking, reading and writing in the Mandarin dialect are further developed. Upon successful completion of the course, the student should be able to:
.. Read 200 characters and 354 special combinations and summarize the content of short paragraphs.
... Write 200 characters and compose sentences and short paragraphs using the 200 characters.
. . . Produce with reasonable accuracy the phonetic sounds of Mandarin Chinese, including the modification of tones, stress and intonation.
... Carry out familiar commands in Mandarin.
... Express ideas orally and in pin-yin romanization.
... Demonstrate understanding of dialogues and passages by creating sentences based on textbook vocabulary and patterns.
... Understand various aspects of Chinese culture and everyday life.

## 201 Intermediate Mandarin I (4) FL

## 3 hours lecture, 2 hours lab per week

## Prerequisite: CHN 102 or equivalent

Continuation of CHN 102. Student will add 300 more characters plus 736 special combinations. Student will translate and compose using Chinese characters. The student will use the language in practical situations.
Upon successful completion of the course, the student should be able to:
... Read 300 characters, 736 special combinations, and summarize the content of paragraphs read.
... Write 300 characters and compose sentences and paragraphs using them.
... Refine the production of the phonetic sounds of Mandarin Chinese, including the modification of tones, stress and intonation of more complex sentences.
. . . Carry out tasks involving a variety of activities such as ordering food in a Chinese restaurant, placing telephone calls, taking a friend to the airport, etc.
... Express ideas orally and in Chinese characters with increased proficiency.
... Demonstrate understanding of dialogues and passages by asking and answering questions based on textbook vocabulary and patterns.
. . . Have a deeper understanding and appreciation of the Chinese culture and language.

## 202 Intermediate Mandarin II (4) FL

3 hours lecture, 2 hours lab per week
Prerequisite: CHN 201 or appropriate score on language placement test.
A continuation of CHN 201. The four skills listening, speaking, reading and writing are further developed.
Upon successful completion of the course, the student should be able to:
... Read 400 characters, 1,133 special combinations and summarize the content of paragraphs read.
... Write 400 characters and use them to compose sentences and paragraphs.
. . . Further refine the production of the phonetic sounds of Mandarin Chinese, including the modification of tones, stress and intonation of more complex sentences.
... Carry out tasks involving a variety of activities such as traveling abroad, studying in a Chinese university, attending an evening party and story telling.
... Express ideas orally and in Chinese characters with clarity and conciseness.
... Demonstrate understanding of dialogues and passages by identifying main ideas, thinking critically and drawing accurate conclusions.
. . . Read a variety of materials with the help of the Chinese-English dictionary.
... Have an increased understanding and appreciation of the languages and culture of the Chinese people.

# CIVIL ENGINEERING (CE) 

113 Introduction to Computer and Design (3)
3 hours lecture per week
Prerequisites: Math 135 and Engineering Drawing or High School Mechanical Drawing.
Introduction to computer programming Methods with emphasis on planning, writing, debugging of programs, together with basic applications.
Upon successful completion of this course, the student should be able to:
. . Work in a windows operating systems environment.
. . . Use a word processor as a desk top publishing tool.
. . Work with a spreadsheet.
. . . Work with a Computer Aided Design (CAD) tool.
. . . Use a spreadsheet to solve civil engineering problems.
. . . Use a word processor to produce professional-looking reports by integrating the results of CAD and spreadsheet tools into one word processing document.

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## 145 Interpersonal Communication (3) OR

## 3 hours lecture per week

Prerequisite: Satisfactory performance on informal speech screening during first week of instruction
A basic course to introduce students to principles of interpersonal communication. In addition to discussing theory, students engage in activities in two-person, small group and public situations. Upon successful completion of this course, the student should be able to:
... Recognize and explain the meaning of the major concepts presented in the course.
.. . Select a concept of interpersonal communication for individual, in-depth analysis and investigation.
... List student's own interpersonal assets and liabilities in twoperson and small group communication to the satisfaction of a group of peers.
... Identify and accomplish to the mutual satisfaction of the student and the instructor a personal communicative goal and provide evidence of having achieved it during the course.
... Develop self-concept as a communicator.
... Explain the rationale for and consciously use new interpersonal communicative skills in two-person and small group interaction so as to promote better feelings and clearer understanding.


## 121 Ballet I (3) AH1

## 4.5 hours lecture/technique per week

This course is an introduction to Classical Ballet Technique. Upon successful completion of this course, the student should have:
... Developed a conceptual and kinesthetic understanding of movement concepts.
... Developed technical proficiency in elementary ballet technique.
... Developed proficiency in the use of ballet terminology.
... Developed strength, flexibility, endurance and overall coordination.
... Developed confidence and awareness when moving.
... Developed an appreciation for classical ballet.
... Developed knowledge of elementary principles of dance composition.

## 122 Ballet II (3)

1 hour lecture, 4 hours lecture/lab per week Prerequisite: Dance 121
The purposes of this course are to continue to introduce the fundamental techniques and principles of ballet to the beginning student and to develop an understanding of dance as a communicative art form through structured and creative classroom work.
Upon successful completion of this course, the student should be able to:
... Show a conceptual and kinesthetic understanding of movement concepts.
.. . Show technical proficiency in elementary ballet technique.
... Show strength, flexibility, endurance and overall coordination.
.. Show confidence and awareness when moving.
... Show an appreciation for classical ballet.
.. . Show knowledge of elementary principles of dance composition.

## 131 Modern Dance I (3) AH1

## 132 Modern Dance II (3) AH1

## 4.5 hours lecture/lab per week

Prerequisite for 132: DANCE 131 or consent of instructor.
Can be audited on a space available basis. May be repeated for credit.
A two semester sequence introducing basic technical skills in movement, rhythms, basic coordination and the creative process.
For either general interest or potential majors.
Upon successful completion of this course, the student should be able to:
... Show greater awareness of the use of the body and greater vocabulary of movement.
. Demonstrate an increased range of movement, flexibility, strength and control.
... Show an acute sense of rhythm, pulse and phrasing.
... Demonstrate by combining specific dance/movement patterns a development of muscle memory.
. . Demonstrate a development of the creative process by exploring movement problems to stimulate improvisation.

## 150 Introduction to Dance (3) AH1

## 3 hours lecture per week

This course introduces students to dance as an art form. Movement analysis, dance history and philosophy, dance techniques and choreographic styles are examined by lectures, demonstrations, participatory activities, videos and performances. A variety of types of dance are considered with an emphasis on western theatrical styles.
Upon successful completion of this course, the student should be able to:

Appreciate dance as a communicative art form.
. . Understand dance as an art form through the basic knowledge of the elements of dance and dance techniques.
. . . Demonstrate verbal, written and group communication skills relevant to dance.
... Appreciate the history, philosophy and cultural aspects of the various types of dance.

## 212 Ancient Hawaiian Dance (2) AH1

2 hours leclure/lab per week
Can be audited on a space available basis
Beginning traditional hula. Performance of repertoire and technique at elementary level.
Upon successful completion of this course, the student should be able to:
. Understand terminology and cultural aspects concerning this art form.
... Demonstrate chanting, basic dance steps and hand/implement movements associated with traditional hula.


Photo by Pat Myers

## DATA PROCESSING <br> (DP)

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For other related courses, see Information and Computer Sciences (ICS)

## 101 Introduction to Data Processing with Applications (3)

3 hours lecture per week
Prerequisite: Concurrent enrollment or credit in ENG 22, or ENG 50 , or tested placement at ENG 100 or ENG 160. MATH 1 or tested placement at MATH 24 or higher.
Recommended Preparation: OAT 20, Keyboarding
This course introduces the data processing major to business applications and the role of microcomputers in business. The role of computers in the evolution of an information-based society is introduced. Students review the history and the need for information processing, the basic information processing cycle and functions, the processing capabilities of computers, system development and program development. The course includes hands-on use of microcomputers to provide the students with experience in operating systems, word processing and spreadsheets.
Upon successful completion of this course, the student should be able to:
... Describe the relationship of data processing to business applications.
... Describe the evolution of data processing.
... Explain the basic features and operations of hardware and software in a computer system.
Describe the need for and identify major steps in formal process for information system development.
Describe the concepts of a disk operating system.
... Demonstrate on a microcomputer the common operating system features such as cold and warm start, file utilities, disk initialization and directory listing.
Produce writing assignments with a word processor.
Implement accounting worksheets that require the use of a spreadsheet program.

## 105 Computer Operations I (3)

2 hours lecture, 2 hours lecture/lab per week
Prerequisite: DP 101 (May be concurrent)
This course gives the student an overview of the operations aspect of the data processing industry. In addition, the student receives indepth exposure to a specific installation by means of extensive "hands-on" experience accomplishing supervised laboratory projects in the Computing Center. The course covers the functions of a computer operator with emphasis on the operations of a variety of computers, peripheral devices, systems and applications software.
Upon successful completion of this course, the student should be able to:
... Understand the operation of two different microcomputerbased architectures and a minicomputer-based system.
... Understand the organization of hardware and soflware manuals and know how to solve basic problems in the use of these systems.
Understand elementary concepts of filing and organizing.
... Demonstrate a basic functional knowledge of word processing, spreadsheet, database and graphics applications software.
... Understand the relationships between computer users and computer systems.
. . Identify programs used in standard computer information systems.
. . . Identify the major functional components of a typical business.
... Identify and explain the functions or sub-areas within a typical computing center.
. . . Start microcomputers and minicomputers and their associated communication facilities and supporting devices.
... Understand the fundamental concepts involved in regular preventive maintenance and to be able to perform elementary maintenance procedures.
... Use logs and journals to create records documentation and to demonstrate responsibility for delegated jobs.
. . . Participate in and contribute to periodic meetings as member of an operations team.
. . . Be able to select the most appropriate computer architecture and software to be used to complete a task.
... Understand the importance of appropriate attire and attitude in the workplace.

## 106 Computer Operations II (3)

2 hours lecture, 2 hours lecture/lab per week
Prerequisite: DP 105 or 156. DP 110 may be concurrent
This course introduces students to microcomputer-based networks and network administration. The startup and maintenance of network control and communications control are developed. This course adds to the student's overview of the operations aspect of the data processing industry, with particular attention to management concerns of computer operations. In addition, the student continues in-depth exposure to a specific installation by means of extensive hands-on experience in the supervised laboratory time in the Computing Center.
Upon successful completion of this course, the student should be able to:
... Diagram the organization of a large data processing shop and explain the role of each division.
... Diagram the structure of a typical business and to explain the various components.
... Understand the basic differences among the three major network topologies.
... Understand the role of the network administrator.
... Set up users on a network and write user scripts and menus.
. . . Respond to network errors by locating the problem and taking corrective action.
. . . Participate in and contribute to periodic meetings as a member of an operations team and to be able to make formal presentations on specific topics.
... Understand the importance of good work habits, including appropriate allire and attitude in the workplace.
... Interact effectively with users of a computing facility and respond to questions and/or problems.

## 110 Introduction to the Programming Process (3)

3 hours lecture per week
Prerequisite: DP 101 (May be concurrent)
This is a first course in programming emphasizing problem solving
and algorithm development. Emphasis is on identification and solution of business problems using top-down structured design techniques. The course provides skills in program design through the use of tools such as structure charts, flowcharts and pseudocode. Students will utilize a programming language to code computer instructions to implement their designs. Testing and debugging are treated as extensions of the coding job.
Upon successful completion of this course, the student should be able to:
. . . Identify programming as a problem-solving process and describe the steps in the development of a program to solve a stated problem.
. . . Define structured programming and state its advantages.
. . . Write design specifications to implement solutions of problems.
... Translate design specifications into high-level code.
... Write effective documentation.
... Demonstrate an understanding of data types.
. . . Implement the structured programming constructs of sequence, selection and iteration.

## 113 Database Fundamentals (3)

3 hours lecture per week
Prerequisite: DP 101 and 110 (Both may be concurrent)
This course is an introduction to the concepts of a database. Databases their roles and advantages are explained at the outset. The course covers file organization, information handling, management and control via a database management system. A substantial part of the course involves the development of an understanding of the data processing blocks: fields, records and files. Report generation techniques are also covered. The course includes hands-on use of microcomputers to provide the students with experience creating, implementing, loading and using a database.
Upon successful completion of this course, the student should be able to:
... Understand the concept of file organization.
... Define a database and describe the main logical differences between traditional files and databases.
. . . Define a database management system (DBMS) and describe relationships of a DBMS to a database and to users.
. . Identify and describe the main features of three primary types of models upon which databases are built: hierarchical, network and relational.
... Use database management system to create, maintain and generate report files.
.. Use sorting and indexing to produce reports.
... Design simple database applications including menus.
... Implement/program a database design in a suitable database language.
.. . Thoroughly document short designs, programs and printouts

## 151X Structured Programming in XBASE(3)

3 hours lecture per week
Prerequisite: DP 113, ENG 160. Completion of MATH 25 or tested placement at MATH 27 or higher
This is a course in programming in XBASE requiring experience with XBASE in an interactive mode. Application requirements are explained through presentation of a set of data structures, or logical schema, for sample applications. Structured programming tech-
niques and good programming style are emphasized. Students will develop complete menu-driven systems.
Upon successful completion of DP 151X, the student should be able to:
. . . Demonstrate an understanding of structured program design and methodologies.
. . Write systems of programs.
... Write program modules that perform multifile references and updates.
. . . Prepare program modules that perform string processing.
. . . Write program modules which perform interactive processing and include capabilities for on-line operation and handling of user interaction through menus, prompts and other screen presentations.
. . Use the modern design tools of structured programming.
. . . Prepare and use a data dictionary for a program under development.

## 155 Introduction to COBOL (3)

3 hours lecture per week
Prerequisite: DP101, 110. ENG 160 (May beconcurrent). Completion of MATH 24 or tested placement ai MATH 25 or higher
This course develops the basic skills a programmer needs to analyze, write and run structured COBOL programs. This course includes the use of flowchart diagrams and pseudocode to further develop a programmer's problem solving skills and the use of debugging techniques to ensure correct results. Students will learn to program in COBOL from stated problems or specifications, applying previously mastered structured programming methods to produce results that are accurate, reliable and maintainable. Skills to be mastered include control break reporting and documentation of programs maintainability.
Upon successful completion of this course, the student should be able to:
... Analyze, write and run elementary programs in structured COBOL for business application problems.
... Prepare and interpret flowchart diagrams and pseudocode.
. . Use a top-down structured approach in writing programs.
.. Identify and correct syntax and logical errors in COBOL programs.

## 156 Introduction to RPG (3)

3 hours lecture per week
Prerequisite: DP 105. ENG 160 (May be concurrent). Completion of MATH 24 or tested placement at MATH 25 or higher
This course introduces the student to the architecture and operation of a minicomputer and its peripherals utilized in an RPG programming environment. This course develops the basic operating skills a programmer needs to run elementary RPG programs. There is a heavy emphasis on the RPC logic cycle. Students will learn to program in RPG from stated problems or specifications, applying previously mastered structured programming methods to produce results that are accurate, reliable and maintainable.
Upon successful completion of this course, the student should be able to:
... Read manuals, find key words and interpret messages.
... Identify, operate and explain the function of the major components of a computer.
... Understand the purpose and structure of a minicomputer operating system.
... Utilize command language to manipulate messages, write control language statements and create and maintain files. Develop a strategy for the analysis of and response to systemlevel and logical error conditions.
. Reduce a recurrent set of commands into a single user command and provide a structured interface into a system via a menu, enabling novice users to interact more effectively with the system.
... Use problem solving strategies on the set of problems common to data processing and express the proposed solutions in an algorithmic form.
... Understand and be able to diagram using logical constructs of structured programming algorithms for simple reports with headings, overflow, grand totals and control break reporting.
. . . Use RPG to implement algorithms as computer-based solutions to accomplish the following - define and use numeric and alphanumeric constants and variables, utilize assignment statements, carry out arithmetic and comparison operations and conduct file input operations.
. . Utilize RPG to create files and perform file maintenance.
. . . Develop an understanding of business organizations, their data processing requirements, and the process of developing, implementing and maintaining computer-based systems.
Demonstrate the application of the principles of security and good data processing practice by listing the principle factors which a programmer can control.
State the general guidelines for data security and integrity in a minicomputer environment.
. Develop and demonstrate work ethics consistent with the data processing profession and its responsibility to the organization it supports.

## 184 Networking and Data Communications

2 hours lecture/2 hours lab per week
Prerequisite: DP 101 and 105
This course will provide the student with an overview of the types of local and wide area networks. It will also include hands-on training in the installation and administration of local area networks.
Upon successful completion of this course, the student should be able to:
. . . Identify the most appropriate Local Area Network topology and cabling to satisfy a user's needs.
. . . Configure and install Network Interface Cards (NICs) so the host computer can use them without hardware and software conflicts.
. . . Construct cabling and connect it to the NICs.
... Configure the File Server and load the Network Operating System.
. . . Load Workstation Software on each workstation.
. . . Set up local and remote printing cpability.
. . . Establish general network operating parameters (e.g., time of operation, accounting, etc.).
.. . Set up accounts for users and groups.
. . . Write startup scripts.
. . . Create user menus.
... Isolate and correct hardware and software problems.

## 255 Advanced COBOL (3)

## 3 hours lecture per week <br> Prerequisite: DP 155

This course develops the skitls a programmer needs to analyze, write and run advanced structured COBOL programs. It also develops the fundamental Job Control Language skills necessary to interface COBOL programs and a mainframe operating system. Skills to be mastered include table processing and file maintenance (applied to sequential, indexed, and direct files).
Upon successful completion of this course, the student should be able to:
. . Write, run and debugstructured COBOL programs for business type problems using advanced COBOL features such as multiple level tables, variable length records, the COBOL SORT verb and the Report Writer Feature.
... Demonstrate the ability to update various types of files.
... Analyze and writefundamental job control language statements.

## 256 Advanced RPG (3)

3 hours lecture per week
Prerequisite: DP 156 and ACC 201
This course increases the student's knowledge of the operation of a minicomputer and extends the basic skills of RPG into more complex environments. The course develops the control language skills necessary to interface RPG programs and a minicomputer operating system. This course further develops the skills a programmer needs to analyze, write and run advanced RPG programs to develop reports and maintain files. Algorithms essential to these two areas will be developed. By the end of the course, the student will develop programs on-line that interface with the System/38 command language, other RPG programs and relational databases. Upon successful completion of this course, the student should be able to:
... Discuss and demonstrate the creation of files and databases on a minicomputer, including the relationship of keys in data description to file maintenance, logical files, subsets of files, views of data and device files.
. . . Utilize the sort utility and logical file view to order data.
. . Utilize the copy command and its options to display data in file and to be able to interpret the output.
. . . Create interactive screens to be used in data maintenance.
... Understand and be able to diagram algorithms using the constructs of structured programming for sequential file maintenance using matching records and keyed file maintenance, and accounting computations including depreciation, amortization, and future and present value.
... Use RPG to implement algorithms as computer-based solutions to accomplish the following-input and output operations from files or terminals: selection; repetition including fixed loop, pre-test loop and post-test loop; modularization commands for internal and external modules; tables, and arrays.
... Use RPG to implement programs which reinforce accounting concepts and arithmetic computations in accounting, including journals, ledgers, balance sheets, standard applications to update accounting files, production of schedules to support adjusting entries, and production of aged receivables and payables. Review a case study and diagram the components required to support data processing requirements, including files, maintenance routines and reports.

Review strategies a user applies when processing data and to create an environment to facilitate the interaction between the user and the analyst.
Apply listening skills in systems development, to communicate proposed solutions to an audience of users, and to manage the process of change necessary for successful project implementation.
... Work in a group to solve a case study problem requiring an implementation more complex and extensive than a single student could do alone.

## 266 Assembly Language Programming (3) <br> 3 hours lecture per week <br> Prerequisite: DP 255 and 256

The course covers computer architecture. The major emphasis is on machine and assembly language programming techniques. There is heavy emphasis on top-down program design and implementation. Upon successful completion of this course, the student should be able to:
. . Demonstrate the understanding of the steps involved in assembly, link and execute of assembly language programs.
. . Write programs in assembly language to handle the screen, perform arithmetic, convert between ASCII and binary formats and perform table searches and sorts.
... Trace machine execution as an aid in debugging.
. . . Demonstrate the understanding of the signal flow and operation of the hardware in a microprocessor system.
Demonstrate the understanding of machine language code and hexadecimal format.

## 270 Systems Analysis and Design (3)

3 hours lecture per week
Prerequisite: DP 151 X, ENG 100 or 160, and SP 151
This course surveys established and evolving methodologies for the development of business-oriented computer information systems. Students are exposed to an overview of a structured approach to the definition of needs, creation of specifications and implementation of new systems. Students will be introduced to the use of advanced software tools to assist in system design and application generation. Upon successful completion of this course, the student should be able to:
. . Explain the role of the systems analyst.
. . . Describe the role, functions and importance of information within a management context.
... Describe the reasons for, values of and potential shortcomings involved in the traditional life cycle approach to systems development.
... Demonstrate an understanding of modern methodologies for systems development.
. . . Explain the role of users in systems development and methodologies for interaction between users and systems analysts.
... Partition a system into a series of modules for solution of the stated problem.
. . Use the tools and techniques of systems development.
... Work with Computer Aided Software Engineering (CASE) software.
... Participate in the analysis, design, development and implementation of a system.

## 277 Comparative Programming Languages (3)

3 hours lecture per week
Prerequisite: DP 255 and 256
The course covers the elements of programming languages. Languages will be compared by their design and for their appropriateness for problem solving. Syntactic descriptions and semantic issues will be discussed. Programs will be written in several programming languages.
Upon successful completion of this course, the student should be able to:
. . . Demonstrate a more detailed understanding of compilers and interpreters.
... Describe the differences between syntax and semantics.
. . Use meta-languages.
... Use formal grammars.
... Prepare the input, output and processing algorithms for a problem.
... Describe the major features and compare specific examples implemented in several languages.
... Select an appropriate language to solve a given problem.

## 280B Mainframe Applications Development (3)

## 3 hours lecture per week

Prerequisites: DP 255
This course emphasizes designing and implementing a system in a mainframe environment. On-line programming and some advanced features of COBOL will be covered. Students will also learn to use the Job Control Language text editor to establish and update processing job streams.
Upon successful completion of this course, the student should be able to:
... Develop and implement a business applications system in a mainframe environment.
... Write and link subprograms.
. . Understand VSAM (Virtual Storage Access Method) file processing.
. . . Understand on-line processing on a mainframe system.
. . . Understand CICS (Customer Information Control System) operations.

280C Minicomputer Applications Development (3)
3 hours lecture per week
Prerequisite: DP 256
This course increases the student's RPG programming skills in a more sophisticated computing environment. Programs are longer and problems more complex. The student will develop menu-based, user-friendly systems. The majority of the programming effort during the course is directed toward the development of the major components of an accounting system in a minicomputer environment. The student will also learn to fine-tune the System/ 38.
Upon successful completion of this course, the student should be able to:
... Understand the strategies used to resolve conflict in a concurrent shared database environment.
... Understand and utilize RPG commands to accomplish file operations, multi-file applications, resource allocation, contention resolution, recovery/logging and inter-process communication.
... Implement programs in RPG using batch or interactive mode
against files which are database or non-database to accomplish general ledger maintenance, accounting month end, aging reports, statements, financial proforma and specialized displays for maintenance or inquiry.
... Utilize the interactive debugging facility on complex problems.
... Create interactive screens and supporting device files for online programming.
. . . Write programs that use subtle support of screen files for multirecord update.
. . . Use data areas to communicate between command language and RPG language programs.
... Demonstrate and apply good listening skills in systems development to communicate proposed solutions to an audience of users and manage the process of change necessary to the successful implementation of a project.
Write system documentation, user manuals and conduct training on a developed system.
... Participate in a group to set goals, deadlines, quality control, and conduct structured walkthroughs to solve a case study problem requiring an implementation more complex and extensive than a single person could do alone.

## 284 Data Communication Fundamentals (3)

3 hours lecture per week
Prerequisite: DP 270
This course will cover the fundamental concepts of data communications. Topics to be discussed include: local area networks; layered architecture of communications; distributed systems; Systems Network Architecture (SNA); and competitive approaches to SNA.
Upon successful completion of this course, the student should be able to:
... Understand the vocabulary of data communications.
... Understand the hardware and software components required for data communications and how they are related.
... Understand the architectural principles used in development of the Open Systems Interconnection (OSI) Reference Model.
... Demonstrate familiarity with the basic concepts and terminology of major communication vendor architecture (Systems Network Architecture, Distributed Network Architecture, etc.).
... Demonstrate familiarity with the major functions and protocols at each level of the OSI reference model.
. . . Demonstrate basic understanding of the technology available for both wide and local area networks (transmission and sharing techniques, topologies, and interfaces).
. . . Demonstrate basic understanding of selected distinctions between computer networks and distributed processing systems.
... Appreciate the security issues and approaches relevant to communication-based information systems.
... Recognize the need for planning network management capabilities from the beginning of a design.

## 286 Applied Systems Analysis and Design (3)

3 hours lecture per week
Prerequisite: DP 270
This course integrates all previous work and provides the opportunity for the student to get a working knowledge of the systems development process. No new computer concepts are involved. Instead, emphasis is placed on the human element and the development process. Students will carry out an actual project as members of
systems development teams. Students are required to prepare both written and oral presentations on systems under development and to document a systems development project on a cumulative basis. Upon successful completion of this course, the student should be able to:
... Interact with a user who requires a computer-based system to complete a data processing need.
... Design and implement a system to solve a data processing requirement.
... Conduct team meetings, structured walkthroughs, group presentations and other activities required to complete a system analysis project.
. . . Develop documentation for a complete systems analysis project from investigation through design to implementation.

## DENTAL. ASSISTING (DENT)



70 Essentials of Dental Assisting (3)

## 4 hours lecture per week, 12 weeks

A lecture course designed to offer historical aspects of the dental profession, dental terminology, the concept of four-handed dentistry, charting procedures, instruments and instrument transfer, isolation techniques, asepsis and infection control measures. Dental ethics and jurisprudence will be included.
Upon successful completion of this course, the student should be able to:
... Describe and discuss program policies and standards as they apply to students in training.
... Identify five individuals recognized for their major contributions to the dental profession.
... List the significance of understanding prefixes, suffixes and root words in using dental terminology.
... Explain the concept of four-handed, sit-down dentistry.
... Explain the role of the dental assistant in recording clinical findings.
... Explain the importance of isolation techniques, asepsis and infection control in the dental environment.
... Explain the ethical standards established by professional dental organizations.
... Explain the legal responsibilities and obligations of the dental assistant and the dentist.

## 70 L Essentials of Dental Assisting Lab (3)

71/2 hours lecture/lab per week, 12 weeks
Laboratory sessions scheduled for the application of knowledge gained in DENT 70. Emphasis on the safe and efficient use of dental operatory equipment, proper positioning in the delivery of quality dental care, anesthetics, rubber dam use, proper care and use of the autoclave and tray setups. Importance of asepsis and infection control measures.
Upon successful completion of this course, the student should be able to:
... List the policies and standards of the Dental Assisting Program as they relate to student safety.
... Contrast the importance and efficient use of 15 proper dental terms.
... Explain and list three examples each of a prefix, root and suffix.
... Demonstrate the principles of four-handed dentistry.
. . Identify 15 items in a dental operatory.
. . . Demonstrate appropriate positions for the patient, dental assistant and operator.
... Demonstrate proper positioning of the dental light.
... Locate and operate the various control mechanisms for the dental chair, dental unit, oral evacuation system, air and water supply and the handpieces.
... Demonstrate proper patient dismissal procedures.
... Demonstrate accurate recordings of clinical findings with appropriate symbols and color coding.
... Demonstrate knowledge of syringes, anesthetics and needles with the selection of appropriate items for a selected procedure.
... Demonstrate the proper passing and retrieval procedures in handling a loaded syringe.
... Demonstrate knowledge in the identification and efficient transfer of dental instruments.
... Demonstrate proficiency in the application of isolation procedures.
. . . Explain the importance of infection control in the dental office.
... Explain the OSHA guidelines and their categorization of tasks, work areas and personnel.
... Explain the American Dental Association (ADA) and Centers for Disease Control (CDC) recommendations for infection control.
... Identify four local and national dental organizations and explain their Code of Ethics.
. . Cite the importance of the Hawai'i Dental Practice Act and the Board of Dental Examiners.
... Explain certification and licensure.

## 72 Dental Materials (1)

1 hour lecture per week, 12 weeks
This is a lecture course which addresses the various materials used in the practice of dentistry the structure, composition, uses, manipulation and properties of these materials.
Upon successful completion of this course, the student should be able to:
... Explain dental materials and cite their importance in dentistry.
... Define and use selected terminology in regards to dental materials.
. . List the various types of dental cements, their properties, setting times and uses in dentistry.
. . Explain the effect of temperature, humidity and rate of spatulation on the various cements.
. . . Explain the use of a base and cavity varnish.
. . . Cite the importance and benefits of a cavity liner.
... Discuss the various restorative materials used in dentistry and the factors involved in the selection process.
... List the component parts of an amalgam alloy.
... Explain trituration.
... List the importance of finishing and polishing restorations.
... Discuss the composite resin restorative materials.
... Explain the use of pit and fissure sealants in preventive dentistry.
. . Explain the gypsum products and their uses in dentistry.
. . . Identify five commonly used impression materials and discuss
their properties and manipulation.
Identify five commonly used waxes.
72L Dental Materials Lab (1)
2.5 hours lecture/lab per week, 12 weeks

A laboratory course emphasizing the practical application of the knowledge gained in DENT 72. The effects of time, temperature and the rate of spatulation on the final products will be demonstrated. The importance of proper use and maintenance of small pieces of laboratory equipment will be stressed.
Upon successful completion of this course, the student should be able to:
. . . Identify the paraphernalia used in working with dental materials.
... Demonstrate the various mixing techniques.
... Demonstrate knowledge in the use of proper terminology regarding dental materials.
... Differentiate among various dental cements regarding composition, mixing times and uses.
... Demonstrate the effects of temperature and the rate of spatulation on the final product.
... Identify a base and explain the rationale for its use.
. . . Select a cavity varnish from among several items and explain its principal function.
... Identify three commonly used restorative materials and cite some of the advantages and disadvantages in the use of each of them.
... Demonstrate knowledge in the proper manipulation of a dental amalgam.
... Demonstrate competency in recognizing properly triturated amalgam.
. . Identify the materials commonly used in finishing and polishing restorations.
... Demonstrate the significance of polishing and finishing.
... Demonstrate competency in identifying and mixing composite resins.
... Illustrate the use of pit and fissure sealants on posterior teeth. Identify the gypsum products and demonstrate competency in the manipulation of the products.
... Demonstrate competency in the manipulation of commonly used impression materials.
... Differentiate between a gold alloy and a gold foil.
... Select the correct wax, from a group of items, for a particular procedure as cited by the instructor.

## 74 Dental Sciences (3)

4 hours lecture per week, 12 weeks
A lecture course which includes a brief review of general anatomy, dental histology and embryology, dental anatomy, oral and dental pathology, oral microbiology and nutrition.
Upon successful completion of this course, the student should be able to:
... Describe the anatomical position and explain the significance of it.
... Identify and use terminology specific to general anatomy and physiology.
... Explain oral histology and embryology.
... Explain dental anatomy and physiology.
... Discuss five oral and dental conditions.
... Discuss oral microbiology and the causative agents of gingivi-
tis and periodontitis.
.. Explain the acidogenic theory of dental caries.
. . Explain the interaction of nutrient needs to good physical and dental health and well being.

## 76 Dental Radiography (1)

1 hour lecture per week, 12 weeks
A lecture course offering basic knowledge on the discovery of $x$ rays, role of $x$-rays in dentistry, physical properties and the hazards of radiation. Radiation safety measures will be emphasized. Radiographic techniques and processing procedures will be discussed. Common anatomical landmarks critical to proper mounting of $x$-rays will be identified.
Upon successful completion of this course, the student should be able to:
. . . Cite the historical beginnings of $x$-rays.
... Explain the role and practice of radiology in dentistry.
. . . Define electromagnetic radiation.
... List three principal characteristics of electromagnetic radiation.
... Explain the generation of x-rays.
... Identify the component parts of an x-ray machine.
. . Cite the importance of radiation safety measures.
... Contrast the paralleling vs. bisection-of-the angle techniques.
... Explain the importance of proper film placement and accurate exposure factors.
... Explain the film developing process.
... Cite the importance of proper film mounting and storage.
... List the Consumer-Patient Radiation Health and Safety Act of 1981.

## 761. Dental radiography Lab (1)

3.5 hours lab per week, 12 weeks

A laboratory course emphasizing the practical application of the material presented in DENT 76. Under close supervision of the instructor, clinical time will include film taking on manikins, critiques of finished products and retakes as necessary. Radiation safety measures will be stressed and implemented.
Upon successful completion of this course, the student should be able to:
... Explain the role of the dental assistant in exposing dental $x$-rays.
... Identify the component parts of the x-ray machine.
. . . Assemble the component parts of the XCP setup.
... Identify the component parts of a dental x-ray film.
... Expose and process a full-month series of good diagnostic quality using the paralleling technique on an adult manikin.
Expose and process a full-mouth series using the bisection-of-the-angle technique on an adult manikin.
... Expose and process two series of bitewing $x$-rays on an adult manikin.
. . Implement radiation safety measures at all times.

## 78 Clinical Rotations; Seminar (3)

38 hours clinical and seminar, 4 weeks
During the last four weeks of the semester, weekly clinical assignments to various dental clinics throughout the community will be made. This course provides excellent opportunities to apply the knowledge and skills acquired during theon-campus training period. The weekly seminar sessions should foster dynamic interpersonal
relationships and develop a strong social support system among the students.
Upon successful completion of this course, the student should be able to:
... Demonstrate competency in the skills needed to function as a dental assistant.
. . . Demonstrate a high level of achievement in clinical situations.
. . . Demonstrateknowledge and skills in the application of asepsis and infection control procedures.
... Demonstrate confidence in patient management.
... Demonstrate positive attitudes about self, members of the dental team, and the dental profession.


## 101 Introduction to Drama and Theatre (3)

3 hours lecture per week
Recommended preparation: Completion of or qualification for ENG 100 or 160.
A course dealing with the reading and analysis of plays as literature and theatrical productions. A survey of the major forms of Western drama.
Upon successful completion of this course, the student should be able to:
... State the characteristics of the major periods of theater and dramatic literature from classical Greece to the present.. . . Show how the socio-political characteristics of the major periods of theater and dramatic literature are realized in one representative play from each period studied
. . . Demonstrate his/her understanding of at least one representative play from each of the major periods of theater and dramatic literature by explaining the play's structure, acting
style, production style, and by sketching the type of theater in which it was presented.
... Show how the theater is an artistic medium of communication by explaining the basic elements of theater production and relating them to three plays seen during the course of the semester.
Express opinions and responses to dramatic literature clearly and effectively in writing.

221 Beginning Acting I (3) Fall
222 Beginning Acting II (3)
3 hours per week, plus mandatory rehearsal
Regular attendance mandatory
Can be audited on a space available basis
Prerequisite for Drama 222: Drama 221 or consent of instructor A two-semester sequence for the beginning student. Extra-class rehearsals required in 222. 221: Emphasis on scene production. 222: Emphasis on full-length production.
Upon successful completion of this course, the student should be able to:
... Demonstrate progress in developing imagination, sensory awareness, and concentration through a variety of drills, exercises, and improvisations in order to believably portray a character in a scene from a published play of his/her choice.
. . . Utilize vocal control in range intensity, resonance, phrasing, and inflection in order to convey emotion in exercises, improvisational sketches, and one scene from a published play of the student's choice.
. . . Develop his bodily mechanism in order to make it flexible and capable of projecting a wide range of physical expressions in exercises, improvisational sketches, and one scene from published play of the student's choice.
... Analyze a dramatic character according to that character's physical qualities, by the nature of his speech, by what he says, by what he does, by what others say about him, by the environment in which he is found in the play, and by the stage directions supplied by the playwright in order to portray him in a scene from a published play of the student's choice.

... Identify the basic acting areas and body positions used on stage.
... Demonstrate a knowledge of basic stage terminology in order to understand instructions given by a director.

240 Basic Stagecraft (3) AH1
Spring
6 hours per week lectures, rehearsal/performance
Introduction to sel construction and stage lighting. Works with acting class on a common project. Lab work at Diamond Head Theatre.
Upon successful completion of this course, the student should be able to:
... Understand and appreciate what is involved technically in mounting a theatrical production.
. . . Name the various stage directions, various standard masking techniques and various lighting positions.
... Construct from scratch a standard flat and a standard $4 \times 8$ platform and demonstrate the various methods of altering both.
... Draw and label a floor plan usable to a director in blocking a production and make knowledgeable decisions concerning placement of walls and furniture as they relate to a particular production.
... Name the basic instruments used for lighting the stage and where and why they are used.
. . . Name and know the responsibilities of the various technicians involved in creating a theatrical production, e.g. stage manager, sound man, light man.

## EAST ASIAN LANGUAGE\& LITERATURE (EALL)



261 Chinese Literature in Translation to 850
(3)

3 hours lecture per week
Recommended Preparation: Qualify for or credit in ENG 100 or 160.

Major works of Chinese prose, poetry, fiction and history from the earliest era to the Tang dynasty. Emphasis on analysis and cultural context.
Upon successful completion of this course, the student will be able to:
. . . Demonstrate knowledge of some major Chinese authors.
.. Show knowledge of the form and content of some Chinese prose, poetry and fiction.
. . Write papers on different literary problems related to Chinese literature.
. . . Consider a work of Chinese literature as a reflection of its cultural milieu and compare that milieu with the student's own.
...Examine a work of Chinese literature using various critical approaches.
. . Recognize major themes in Chinese literature, explore their implications and identify their basic assumptions.
. . .Show greater sensitivity to language and literary devices authors use in literature.
.. Express opinions and responses to Chinese literature clearly and effectively in writing.

262 Chinese Literature in Translation - 850 to the present (3) 3 hours lecture per week
Recommended Preparation: Qualify for or credit in ENG 100 or 160
Major works of Chinese poetry, fiction and drama from the Tang dynasty to the 20 th century. Emphasis on analysis and cultural context.
Upon successful completion of this course, the student should be able to:
. . .Demonstrate knowledge of some major Chinese authors.
. . Show knowledge of the form and content of some Chinese prose, poetry and fiction.
. Write papers on different literary problems related to Chinese Literature.
. Consider a work of Chinese literature as a reflection of its cultural milieu and compare that milieu with the student's own.
. Examine a work of Chinese literature using various critical approaches.
Recognize major themes in Chinese literature, explore their implications and identify their basic assumptions.
Show greater sensitivity to language and literary devices authors use in literature.
... Express opinions and responses to Chinese literature clearly and effectively in writing.

## 269 Study Abroad (3)

90 hours
Prerequisite: Consent of Instructor.
Recommended Preparation: Completion of first-year college level language course.
A summer seminar tour of a country in East Asia, Southeast Asia, the Pacific or Europe. Students will study the language and culture of the country by participating in seminars/courses at a host university or institution and traveling to important cultural and historical cities. Upon successful completion of this course, the student should be able to:
... Demonstrate, in a written examination and report, understanding of the people and culture of the country.
... Demonstrate an awareness of internationalism and the interdependency of cultures.
... Understand and appreciate the practical application of sociolinguistic theory in analyzing the culture.
. . . Understand the nuances of typical non-verbal communication.
... Demonstrate, in an examination, increased competence in aural and oral skills.

271 Japanese Literature in Translation-Traditional (3) AH3 3 hours lecture per week
Recommended Preparation: Qualification for or completion of ENC 100 or 160
Survey of major Japanese literary forms from the earliest era to mid19th century. Knowledge of Japanese not required.
Upon successful completion of this course, the student should be able to:
... Consider a work of Japanese literature as a reflection of its cultural milieu and compare that milieu with a student's own.
... Examine a work of Japanese literature using various critical approaches.
... Recognize major themes in traditional Japanese literature, explore their implications and identify their basic assumptions.
... Show greater sensitivity to language and literary devices authors use in literature.
... Express opinions and responses to traditional Japanese literature clearly and effectively in writing.

272 Japanese Literature in Translation-Modern (3) AH3
3 hours leclure per week
Recommended Preparation: Qualification for or completion of ENG 100 or 160
Survey of Japanese literature from mid-19th century to the present; emphasis on fiction. Knowledge of Japanese not required.
Upon successful completion of this course, the student should be able to:
... Consider a work of Japanese literature as a reflection of its cultural milieu and compare that milieu with their own
... Examine a work of Japanese literature using various critical approaches.
. . . Recognize major themes in modern Japanese literature, explore their implications and identify their basic assumptions.
... Show greater sensitivity to language and literary devices authors use in literature.
... Express opinions and responses to modern Japanese literature clearly and effectively in writing.


101 Consumer Economics (3)
3 hours lecture per week
Analysis of the theoretical and practical aspects of consumer behavior.
Upon successful completion of this course, the student should be able to:
. . . Demonstrate understanding of the factors contributing to consumerism and its growth as a social movement.
. . . Recognize or state the main principles and strategies involving intelligent consumer characteristics in the major areas of individual and family consumption or choices as to products, services and institutions.

## 120 Introduction to Economics (3) SS

3 hours lecture per week
Recommended Preparation: Qualification for or completion of ENG 100 or 160 and MATH 27
General understanding of the functioning of economic systems, including various approaches to the organization of production and allocation of resources and of policies to achieve national economic goals; these include the determination of national income, inflation, recession, unemployment, taxation, labor unions, environmental pollution, energy and economic growth. Emphasis will be placed on writing, problem-solving, critical thinking and abstract reasoning. Fulfills general education course requirement. Upon successful completion of this course, the student should be able to:
... Demonstrate knowledge of the basic mechanisms of American economic systems including organization of production and the allocation of resources.
Demonstrate knowledge of policies to achieve national economic goals.
... Specify tools of microeconomic analysis in determining the level of national income and be able to apply these to such problems as unemployment, recession and inflation.
... Examine and apply to current events government fiscal and Federal Reserve monetary policies.
... Explain specific tools for microeconomic analysis, e.g., demand and supply, diminishing returns, price and income elasticity, cost-benefit analysis and externalities
... Apply these tools to such economic problems as energy, environmental pollution, market power of business and labor, the world food problem and poverty.

## 130 Principles of Economics (Microeconomics) (3) SS

 3 hours leclure per weekRecommended Preparation: Qualification for or completion of ENG 100 or 160 and MATH 27
This course satisfies UH-Mānoa College of Business and Economics Department core requirements.
Price system and market structures; theory of consumer behavior and market demand; production costs and the theory of the firm under competition, monopoly, oligopoly, and monopolistic competition, social costs, ecology and externalities; public policy and income distribution; conservation and energy; population economics; food and the agricultural sector; and fundamentals of international economics. Emphasis will be placed on writing, problem-solving, critical thinking and abstract reasoning. Required for Business and Economics majors.
Upon successful completion of this course, the student should be able to:
. . . Show knowledge of the basic mechanism by which the American economic system works including various approaches to the organization of production, the allocation of resources, etc.
... Show knowledge of policies of microeconomic nature to achieve national and specific goals of public policy.
. . . Identify the tools of macroeconomic analysis and analyze and formulate possible solutions to contemporary economic and social issues such as agricultural production, world food problems, poverty and the distribution of income, the market power of business and labor, the energy crisis and environmental pollution.

## 131 Principles of Economics (Macroeconomics) (3) SS

3 hours lecture per week
Prerequisite: ECON 130
Recommended Preparation: Qualification for or completion of ENC 100 or 160 and MATH 27
This course satisfies UH-Mānoa College of Business and Economics Department core requirements.
Macroeconomics with emphasis on modern theory of income determination indicating how and why income, production, employment and price levels fluctuate. The course also will investigate the structure of the banking system and its role in the economy, and public policy questions arising from changes in these aggregates. Emphasis will beplaced on writing, problem-solving, critical
thinking and abstract reasoning. Required for Business and Economics majors.
Upon successful completion of this course, the student should be able to:
... Demonstrate knowledge of the basic mechanism of the American economic system.
... Explain the specific tools of classical, Keynesian, and neoKeynesian macroeconomic analysis e.g. demand and supply, the consumption function, the multiplier, the quantity theory of money and the accelerator, all of which analyze the change in and the determination of national income.
Explain government fiscal and Federal Reserve policies and the application of these to current economic events of relevant interest.
Demonstrate knowledge of other topics such as economic forecasting, government taxation policy, economic growth as it pertains to the world and specifically to the State of Hawai'i.


101V Tuturial Training and Peer Counseling (1-3)
1 hour lecture, 6 hours lab per week
Prerequisite: Recommendation of subject area instructor or evidence of competency.
A course designed to prepare students to work as peer tutors in the labs, classrooms, and in one-to-one situations.
Upon successful completion of this course, the student should be able to:
. . . Identify skills needed by tutors.
. . . Identify the needs of the tutee.
... Demonstrate through the practicum experience techniques for
successful tutoring in the assigned subject area.
. . . Apply the problem-solving process in tutoring situations.
... Establish effective helping relationships.
... List own strengths and weakness in communicating and relating to others and set goals for improving areas of weakness.

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100 Pre-Hospital Emergency Care (9)
10 hours lecture, 9 hours lab per week for the first 10 weeks of the semester
Prerequisite: Admission to the Emergency Medical Technician program
(Credit by exam for LEAP candidates)
Theory and laboratory practice of basic life support skills and procedures in the pre-hospital emergency setting.
Upon successful completion of this course, the student should be able to:
... Define a medical emergency, and explain and demonstrate
assessing the situation, obtaining a basic history and physical examination, establishing rapport with the patient and others, and managing emergency care including, if needed, extricating the patient.
... Explain and demonstrate the initiation and continuation of emergency medical care including the recognition of presenting conditions and initiation of appropriate non-invasive treatments for: surgical, medical, cardiac, and psychiatric emergencies; trauma; and, airway and respiratory problems.
... Demonstrate and accurately perform in a non-patient care situation all basic life support procedures as listed in Board of Medical Examiners rules for Emergency Ambulance Personnel.

## 101 Pre-Hospital Emergency Care Practicum (3)

27 hours lab per week for the last 5 weeks of the semester
Prerequisite: EMT 100 with a grade of "C" or above
Mandatory CR/NC
Clinical application of basic life support procedures in local hospitals and ambulance units.
Upon successful completion of this course, the student should be able to:
... Perform in an entry-level position as an Emergency Medical Technician.
... Safely and accurately perform all basic life support procedures as listed in Board of Medical Examiners rules for Emergency Ambulance Personnel.
... Participate as a team member with another Emergency Medical Technician or under the direction of a Mobile Intensive Care Technician to ensure the safety and care of the patient.

## 110 EMT Internship (1-6)

45 internship hours/credit
Prerequisite: Hawai'i EMT certification
Mandatory CRNC
Upon successful completion of this course, the student should be able to:
... Perform as an Emergency Medical Technician.
... Safely and accurately perform all basic life support procedures as listed in Board of medical Examiners rules for Emergency Ambulance Personnel.
... Participate as a team member with another Emergency Medical Technician or under the direction of a Mobile Intensive Care Technician to ensure the safety and care of the patient.


120 Introduction to Microprocessors and Logic Design (4)
3 hours lecture and 3 hours lab per week
Prerequisites: MATH 140 and high school physics or consent of instructor
Introduction to digital/logic design process using combinational and sequential logical circuits. Computer architecture, microprocessors and microcomputers are covered.
Upon successful completion of this course, the student should be able to:
... Design logic circuits and a simple digital processor.
... Demonstrate an understanding of numbering systems, base conversion, Boolean algebra, systematic reduction of Boolean expressions and basic forms of multi-level gate networks.
. . . Demonstrate an understanding of combinational and sequential MSI circuit, finite state machines and memory devices.
. . . Demonstrate an understanding of basic microprocessor-based design, microprocessor hardware/software and interfacing requirements.
. . . Suggestions for objectives include: skills to be acquired, problem solving, applied knuwledge, relationships and understandings and other values that the student should acquire in the course.

## 150 Introductory Computer Programming Methods (3)

3 hours lecture per week
Prerequisites: MATH 135 and ICS 111 or consent of the instructor Introduction to computer programming methods with emphasis on planning, writing and debugging of programs, together with basic applications.
Upon successful completion of this course, the student should be able to:
... Explain the steps involved in the programming process.
. . Solve simple problems and express those solutions as alogrithms.
. . . Use the fundamental techniques of selection, looping, assignment, input and output in describing the steps the computer is to take to carry out a problem solution.
. . . Write alogrithms and code in a top-down manner.
... Work with arrays in searching and sorting applications.
. . . Work with structures and union types.
... Write, test and debug 200 to 500 line programs.
. . . Write functions and use pointers.
... Work with characters and strings.
... Write simple recursive alogrithms and programs.

(Note: English as a Second Language courses are at the end of this listing.)
9V Basic Reading V (1-4)
3 hours lecture, 2 hours lab per week
Prerequisite: A grade equivalent of 6.0 on the English placement test or teacher recommendation.
A basic reading course focusing on the development of fundamental comprehension skills and vocabulary growth.
Upon successful completion of this course, the student should be able to:
... Follow oral and written directions exactly and completely.
... Preview materials to obtain an overview of what is to be read.
... Identify the central focus and supporting details in paragraphs and short reading selections of 9.0 grade equivalent.
... Recognize basic organizational relationships in sentences and paragraphs of 9.0 grade equivalent.
... Make valid inferences based on evidence presented by the author.
... Draw accurate conclusions by using informationgiven by the author.
. . . Distinguish between statements of fact and opinion.
... Usecontext clues to define unfamiliar words of 9.0 grade equivalent.
... Use word attack skills of structure and sound to determine the pronunciation and meaning of unfamiliar words.
... Identify parts of a dictionary entry and use the information found in the dictionary.
Demonstrate increased general knowledge of words in the student's active vocabulary.

## 10V Basic Writing V (1-4)

3 hours lecture, 2 hours lab per week
Prerequisite: Minimum grade equivalent of 7.0 on the place-
ment test or teacher recommendation.
A basic writing course designed to prepare the student for entry level competency in ENC22 or 50. The primary goal of the course is to develop the students ability to write brief compositions in standard English.
Upon successful completion of this course, the student should be able to:
... Apply the General Writing Process to organize information derived from personal experience and readings (general and academic material, Grade Equivalent 7.0-10.0).
... Write brief compositions using three basic writing frames: description/narrative, summary and analysis.
Write clear, grammatically correct sentences.

## 21V Developmental Reading (1-3)

3 hours lecture, 1.5 hours lab per week
Prerequisite: A grade equivalent of 9.0 on the English placement test or teacher recommendation.
A course designed to develop reading, vocabulary and study skills essential for successful academic achievement.
Upon successful completion of this course, the student should be able to:
... Adapt reading rate and method of reading in accordance with the purpose of reading.
... Read at rates conducive to sustained interest and effective comprehension.
... Identify main ideas and supporting details in paragraphs and entire selections.
Recognize the structure and organization of paragraphs.
Think more critically about what is read.
... Make valid inferences based upon suggestions or evidence presented.
... Draw accurate conclusions and predict outcomes by logically putting together facts and details.
Differentiate between fact and opinion.
. . . Identify the author's purpose.
. . . Demonstrate knowledge of structural clues in determining the
meaning of unfamiliar words.
... Apply the SQ3R method of textbook study to readings from various content areas.
... Demonstrate knowledge of test-taking techniques.
... Demonstrate knowledge of effective note-taking techniques.
... Outline and underscore main ideas and supporting details in a variety of reading passages.

## 22 Introduction to Expository Writing (3)

3 hours lecture per week
Prerequisite: Minimum grade equivalent of 10.0 on the English placement test or teacher recommendation.
Upon successful completion of the course, students should be fully prepared to enter ENG 100,160 or ESL 100 . They should be able to write clear, correct papers that demonstrate the ability to:
... Use a full, multi-step writing process.
. . . Use writing to discover ideas and to clarify their thoughts.
... Use writing to communicate clearly with a specific audience for a specific purpose.
... Write an organized paper of two or more pages with appropriate paragraphing and transitions and consistent thesis, purpose and sense of audience.
... Objectively respond to given information, drawing valid generalizations and conclusions where appropriate.
... Write well organized multi-paragraph papers that are freeof over generalizations and are reasonably objective in content and tone.
... Write a clear and objective summary of a short reading passage.
. . Write a clear and objective analysis of or response to a short reading passage.
... Organize and write a brief in-class academic assay or exam.
... Understand and avoid plagiarism.
... Independently proofread and correct mistakes in spelling, punctuation and grammar in their own writing.

## 50 Writing for the World of Work (3)

## 3 hours lecture per week

Prerequisite: A grade equivalent of 10.0 on the English placement test or teacher recommendation.
Practice in communicating clearly and persuasively in writing for the world of work; review of grammar, punctuation, spelling and mechanics. Designed for students in Business Education, Food Services and Hospitality Education, and Medical Assisting. Upon successful completion of this course, the student should be able to:
... Plan and prepare for writing tasks including identifying an audience; setting objectives; gathering information and outlining points.
.. . Select an appropriate plan for a business message.
... Write clear and effective directions, reports and correspondences.

518 Business English: Sentence Structure and Grammar (1)
3 hours lecture per week, 5 weeks only
Prerequisite: A grade equivalent of 10.0 on the English placement test or teacher recommendation.
A study of the parts of speech, the parts of the sentence and types of phrases; practice in proofreading letters and memos for sentence errors.
Upon successful completion of this course, the student should be able to:
... Identify parts of speech, parts of sentences and types of phrases.
... Write clear, coherent sentences.

51C Business English: Punctuation and Mechanics (1)
3 hours lecture per week, 5 weeks only
Prerequisite: A grade equivalent of 10.0 on the English placement test or teacher recommendation.
A sludy of clauses, punctuation, capitalization and writing numbers; practice in writing letters and memos and proofreading them for punctuation and mechanical errors.
Upon successful completion of this course, the student should be able to:
. . Identify dependent and independent clauses.
. . . Use punctuation marks correctly.
... Identify and correct fragments, run-ons and comma splices.
... Write and proofread routine letters and memos.
51D Business English: Word Choice and Spelling (1)
3 hours lecture per week, 5 weeks only
Prerequisite: A grade equivalent of 10.0 on the English placement test or teacher recommendation.
A study of word choice and spelling; practice in writing letters and memos and proofreading them for diction and spelling errors.
Upon successful completion of this course, the student should be able to:
. . . Use the dictionary/thesaurus to find meanings, spellings, syllabications, synonyms, etymologies, irregular forms and other information about words.
... Define and use common business terms in writing.
. . Write and proofread routine letters and memos.

## 55 Business Communications (3)

Fall Semester Only 3 hours lecture per week
Prerequisite: Successful completion of ENG 22 or 51B, C, D
A study of various types of business communications with emphasis on writing effective business letters and reports based on appropriate forms and good diction.
Upon successful completion of this course, the student should be able to:
... Employ principles of effective business communication to achieve favorable tone.
Apply principles of effective letter writing to compose:

- A routine or pleasant letter
- An unpleasant letter
- The collection series letters
- A job resume
- An employment application letter.
... Apply principles of effective report writing to produce an informal report.
. . . Demonstrate familiarity with the formal report.
. . Write sentences free of grammar, usage and punctuation errors.


## 100 Expository Writing (3) WR

3 hours lecture per week
Prerequisite: 1) 11.5-12.9 on the English Placement Test with a passing grade on the writing sample test, or 2) 13.0 or higher on the English Placement Test, or 3) C or better in ENG 22.
A course offering opportunities for developing critical reading skills, analyzing expository essays and practicing writing for various expository purposes. (The course emphasis is on critical thinking, principles of effective organization, and elements of
effective written communication.)
Upon successful completion of this course, the student should be able to:
... Demonstrate the ability to write clear, correct, concise informative and persuasive university-level papers. This includes the ability to:

- Make accurate and insightful observations.
- Discover, gather and select information.
- Use the library to find source material when appropriate.
- Limit and develop a subject.
- Make valid generalizations and inferences to generate and support a thesis.
- Abstract ideas from and evaluate the strengths and weaknesses of written material, professional and/or peer.
- Use the writing process to clarify ideas and develop new perspectives.
- Organize ideas and evidence according to purpose and audience.
- Evaluateown writing, considering purpose, audience and tone.
- Revise as necessary to improve unity, support, and organization.
- Edit and proofread own writing for Standard American English. In addition, students should be able to write an in-class essay or exam, write correctly documented papers incorporating library research without plagiarizing and write an analysis or critique.


## 102 College Reading Skills (3)

3 hours lecture per week. Additional hours required for lab work Prerequisite: A grade equivalent of 12.0 or higher on the English placement test or teacher recommendation.
A course designed to develop critical/analytical reading skills which enhance the student's ability to read and respond to ideas and issues from various fields. To achieve this goal, the reading process of previewing, close reading, responding, summarizing, questioning, interpreting, analyzing and evaluating is used. By means of these sub-processes, the course attempts to foster understanding of issues and perspectives that cut across the curriculum. Upon successful completion of this course, the student should be able to:
. . . Demonstrate skill in responding to the meanings and implications of materials read.
... Identify purposes in writing and make connections between generalizations and specifics in common interest material.
. . . Demonstrate skill in analyzing and evaluating materials read.
... Demonstrate knowledge ofcollege-level vocabulary.
. . . Use context clues and structural analysis to figure out approximate meanings of unfamiliar college-level words.
... Recognize organizational structures and modes of inquiry in readings from various disciplines.
... Read general interest material at flexible rates with at least 70 percent comprehension.

## 108 Editing (1)

3 hours lecture per week, 5 weeks only
Prerequisite: Qualification for ENG 100 or 160
This 5 -week module gives the student intensive practice in editing and revising both his own prose and that of his classmates. The
course focuses on exercises and discussion on how to use the structure of language to solve day-to-day problems of expression. Upon successful completion of this course, the student should be able to:
. . . Edit sentences to free them of errors in

- Grammar/punctuation
- Syntax
- Diction
... Edit passages to eliminate repetition, redundancy and wordiness.
Edit to refine the interplay of syntax, diction and meaning.


## 109 Expository Writing (3)

3 hours lecture per week
Prerequisite: A grade of "C" or less in ENC 100 or 160
A continuation of ENG 100, to provide additional practice in writing clear, effective, university-level prose. The course focuses on analytical/persuasive writing, with attention paid to all stages of the writing process.
Upon successful completion of the course a student must be able to write clear, correct, concise, informative and persuasive univer-sity-level papers in which the student:
. Explicates and defends positions on controversial social/political/ moral/ ethical/ economic/academic issues.
. . Uses primary and secondary sources of information, analyzes the data, summarizes the information and makes valid inferences and generalizations from it.
... Analyzes processes, activities, or mechanisms (broadly defined to include such things as organizations and systems), explicating their origin, operation and effects and evaluating their effectiveness, desirability, efficiency and social/political/ moral/ethical/economic/intellectual worth.

## 160 Business and Technical Writing (3)

3 hours lecture per week
Prerequisite: (1) 11.5-12.9 on the English Placement Test and placement in ENG 100 via the Writing Sample Test; (2) 13.0 or higher on the English Placement Test; or (3) C or better in ENG 22.

The principles and practices of writing for business and technical purposes, including writing letters, memos, instructions, and reports based on primary and secondary sources. Students work toward achieving clear, concise, reader-oriented prose and understanding the elements of the writing situation, including purpose, audience, appropriateness of style, tone, etc. The course is intended for students in the Business Education and Food Service and Hospitality Education AS degree programs.
Upon successful completion of this course, the student should be able to:
... Understand the writing process (gathering information, drafting, revising, editing).
.. Organize ideas and evidence to adapt one's writing style to one's audience and purpose.
... Write good news, bad news and persuasive memos and reports.
... Write clear instructions as well as informational, analytical and persuasive memos and reports.
... Summarize and paraphrase information accurately.
... Conduct library research and write a research report or a survey of literature with proper documentation for a topic in the student's area of study or interest.
Make accurate and insightful observations and communicate them in clear, concise, consistent reader-oriented prose. Use appropriate organization and formats for business letters, memos, and reports.

## 204 Creative Writing (3)

3 hours lecture per week
Prerequisite: Satisfactory completion of ENG 100 or 160 or consent of instructor.
Analyzing, appreciating, and writing poems and short stories. Upon successful completion of the course, the student should be able to:
. . . Recognize the basic elements of imaginative writing.
... Use imaginative writing to discover or communicate new ideas, feelings and attitudes
. . . Appreciate the artistry of well-known poems and short stories.
... Write poems and short stories of recognizable form and quality.
... Critically analyze the imaginative writing of oneself and of others.
Evaluate and edit the poems and short stories of oneself and classmates.

## 209 Business and Managerial Writing (3)

## 3 hours lecture per week

Prerequisite: A grade of "C" or better in ENC 100 or 160 or consent of instructor. This course satisfies a degree requirement for UH-Mānoa's College of Business Administration and TIM (Equivalent to UH-Mảnoa's ENG 309).
A study of business and managerial writing; practice in writing letters, memos, policy and procedure statements and reports, including a report requiring research and documentation.
Upon successful completion of this course, the student should be able to:
... Understand the nature and functions of business and managerial writing.
. . Apply the principles of effective business writing in composing business messages.
... Write policies and procedures governing business activities.
. . . Prepare business reports.

## 214 Studies in Major Authors of Exposition (3)

3 hours lecture per week
Prerequisite: Completion of ENG 100,160 or 109
This course provides students the opportunity to practice various methods of analyzing and commenting on expository prose and to gain an in-depth understanding of one or several major writer(s) or exposition.
Upon successful completion of this course, the student should be able to:
. . . Draw inferences (about a writer's tone, purpose and attitudes) based on a close reading of the writer's non-fiction prose.
. . . Recognize the principal rhetorical devices used in the writer's
work, explicate their effect on readers and imitate the author's rhetorical strategies in their own writing.
. . . Understand the relationship between rhetoric and meaning in non-fiction prose.
Edit, revise and polish their own expository writing to improve its style and effectiveness.

## 215 Advanced expository Writing (3)

3 hours lecture per week
Prerequisite: Successful completion of ENG 100, 160, 109 or instructor recommendation
Students will practice sustained expository/argumentative writing for a variety of audiences and purposes. Emphasis will be on logical and rhetorical principles, stylistic concerns, research method, and evaluation of source material and legal/ethical issues of writing non-fiction.
Upon successful completion of this course, the student should be able to:
... Distinguish the characteristics of various kinds of expository and argumentative writing.
... Consider philosophical, ethical and legal issues of writing exposition and argument.
Choose topics of interest for a selected audience.
... Gather and evaluate the accuracy and usefulness of information from a variety of sources, including observation, personal experience, interviews, as well as the library.
... Synthesize information in clear, coherent essays.
... Reference and document information in accordance with the conventions of the publication for which an essay is written.
... Identify and understand the significance of stylistic features in (1) the writings of various authors, (2) works written for particular publications, and (3) particular genres of expository/argumentative writing.
... Adapt organization and style to audience, purpose, and subject.
... Provide editorial advice to other writers.

## 200 LEVEL LITERATURE COURSES

Upon successful completion of all 200 level literature courses the student should be able to:
... Consider a work of literature as a reflection of its cultural milieu and compare that milieu with his or her own.
... Examine a work of literature from various vantage points.
... Examine and analyze the various elements of a literary work.
... Use basic concepts and terminology particular to literary analysis.
. . Recognize major themes in a work of literature; explore their implications and identify their basic assumptions.
... Analyzestructure; understand how form contributes to meaning.
. . . Show greater sensitivity to language and literary devices authors use in literature.
. . . Appreciate the artistry of literary works and become better acquainted with writers as artists.
. . . Recognize the need for literary evidence to support opinions and ideas regarding literary work.
... Express opinions and responses to literature clearly and effectively in writing.

250 American Literature (3) AH3
3 hours lecture per week
recommended preparation: Qualification for or completion of ENG 100 or 160.
Major authors from 19th and 20th centuries.
Upon successful completion of this course, the student should be able to satisfy the general competencies and the following:

Demonstrate knowledge of some major American playwrights, novelists and poets, their characteristic themes and techniques.
... Write papers on different literary problems related to American literature.

251 British Literature to 1800 (3) AH3
252 British Literature after 1800 (3) AH3 Spring
3 hours lecture per week
Recommended Preparation: Qualification for or completion of ENG 100 or 160
Note: Eng 251 and 252 need not be taken in sequence
ENG 251: Major authors from old English, medieval, renaissance and neo-classical periods. ENG 252: Major authors from Romantic, Victorian, and modern periods.
Upon successful completion of ENG 251 or 252, the student should be able to satisfy the general competencies and the following:
. . . Demonstrate knowledge of some major British authors.
.. Show knowledge of the form and content of some British stories, poems, and plays.
... Write papers on different literary problems related to British literature.

253 Worid Literature: Classical Times to 1600 (3) AH3
Fall
254 World Literature: 1600 to the Present (3) AH3 Spring 3 hours lecture per week
Recommended preparation: Qualification for or completion of ENG 100 or 160
Note: Eng 253 and 254 need not be taken in sequence
ENG 253: Major authors from classical, medieval, renaissance, and non-western culture. ENG 254: Major authors of world culture from European Enlightenment to modernism.
Upon successful completion of ENG 253 or ENG 254, the student should be able to satisfy the general competencies and the following:
. . . Recognize themes and values in world literature that transcend individual cultures.
... Gain a sense of the unique values and literary traditions of various cultures.
. . Write papers on different literary problems related to world literature.

255 Types of Lierature: Short Stories and Novels (3) AH3 Fall 3 hours lecture per week
Recommended Preparation: Qualification for or completion of ENG 100 or 160.
Introduction to genre of prose fiction through major American and European texts.
Upon successful completion of the course the student should be able to satisfy the general competencies and the following:

Demonstrate knowledge of some major American and European short story writers and novelists, their characteristic themes and techniques.
. Appreciate the distinction between the short story and the novel as types of fiction.
Write papers on different literary problems related to the study of fiction.

256 Types of Literature: Poetry and Drama (3) AH3
Spring 3 hours lecture per week
Recommended preparation: Qualification for or completion of ENG 100 or 160.
Introduction to genres of poetry and drama through major American and European texts.
Upon successful completion of the course the student should be able to satisfy the general competencies and the following:
. . . Demonstrate knowledge of some major American and European poets and dramatists, their characteristic themes and techniques.
. . Appreciate the distinction between poetry and drama as types of literature.
. . . Write papers on different literary problems related to the study of poetry and drama.

## 257 (Alpha) Themes in Literature (3) AH3

3 hours lecture per week
Recommended Preparation: Qualify for or credit in ENG 100 or 160.

Selected themes in major works of various types, cultures and periods. F - Women Writers on Women; G - Myths, Dreams, and Symbols; M-Cross-Cultural Perspectives: Asian/Pacific Literature; P-Literature and the Sea; Q - The Hero.
Upon successful completion of any course in this series, the student should be able to:
... Consider a work of literature as a reflection of its cultural milieu and compare that milieu with their own.
... Examine a work of literature from various vantage points.
... Examine and analyze the various elements of a literary work.
... Use basic concepts and terminology particular to literary analysis.
. . . Recognize major themes in a work of literature; explore their implications and identify their basic assumptions.
... Analyze structure; understand how form contributes to meaning.
... Show greater sensitivity to language and literary devices authors use in literature.
... Appreciate the artistry of literary works and become better acquainted with writers as artists.
. . . Recognize the need for literary evidence to support opinions and ideas regarding literary works.
... Express opinions and responses to literature clearly and effectively in writing.

# ENGLISH AS A <br> SECOND LANGUAGE(ESL) 

1 Beginning English for Students of English as a Second Language (4)
3 hours lecture, 2 hours lab per week
Grading: Credit/No Credit only.
Prerequisite: A score below C.E. 4.0 on the English Placement Test or teacher recommendation.
A course designed to introduce the student of English as a Second Language to the patterns of Standard English and develop elementary proficiency in all skills: listening, speaking, reading and writing.
Upon successful completion of this course the student should be able to:
.. . Read a short selection and answer comprehension questions.
. . . Retrieve specific information from short reading selections.
... Demonstrate a familiarity with a basic high frequency vocabulary.
. . . Write grammatically correct short sentences pertinent to every day need.
... Understand natural spoken English in conversations on familiar every day topics.
. . . Properly use some of the basic communicative functions in conversation, i.e. asking for information, making suggestions, talking about feelings, etc.

## 2 Listening and Speaking for Students of English as a Second Language (3) <br> 3 hours lecture per week <br> Grading: CrediUNo Credit only. <br> Prerequisite: A grade equivalent of between 4.0 and 6.0 on the English Placement Test.

A course designed to improve student's oral-aural communication skills. It includes: practice in overcoming speech problems related to pronunciation, rhythm and intonation; listening comprehension exercises related to academic and real life situations; and practice using idiomatic English in conversation.
Upon successful completion of this course, the student should be able to:
... Understand natural spoken English in conversation and lectures.
. . . Recognize and discriminate between speech sounds in conversational and prose exercises.
... Use appropriate conversational English in given social situa tions.
... Understand and use correctly a variety of idiomatic English expressions.
. . . Pronounce standard English vowels and consonants accurately and improve use of rhythm and intonation patterns.

[^3]A course designed to help the student determine and use the appropriate skills and strategies needed to attain reading proficiency. Includes intensive practice in sound-symbol relationships, word study and grouping, sentence study, prose and nonprose reading and analysis.
Upon successful completion of this course, the student should be able to:
... Identify the central focus and supporting details in short reading passages of 6.0 equivalent.
... Use evidence presented by the author to make valid inferences and to draw accurate conclusions.
. . . Choose the appropriate reading strategy to extract the message of the writer.
... Learn the meaning of an unfamiliar word by examining the context in which it is found, by using knowledge of the meanings of word parts and by referring to an English dictionary.
. . . Demonstrate increased general knowledge of words at the 6.0 level.
... Recognize word groups and structural clues to facilitate the development of fluent reading skills.
... Recognize the sound patterns represented by the graphic symbols and identify their combinations as language units.

## 4 Writing for Students of English as a Second Language (4)

3 hours lecture, 2 hours lab per week
Grading: CreditNo Credit only.
Prerequisite: A grade equivalent of 4.0-6.0 on the English Placement Test.
A course designed to help non-native speakers develop basic writing skills and to give them practice in structural patterns of English.
Upon the recommendation of the instructor, a student may repeat the course for credit.
Upon successful completion of this course, the student should be able to:
. . . Identify noun and verb forms, parts of speech and parts of the sentence.
. . . Write simple and complex sentences, following strict writing conventions of the English language.
... Write a short composition with good sentence construction, focusing on a single topic.

## 5 Communicative Skills for Students of English as a Second Language (3)

3 hours lecture per week
Grading: CreditNo Credit only
Prerequisite: A grade equivalent of 6.0-8.9 on the English Placement Test or teacher recommendation.
A course designed for ESL students who want to improve their listening and speaking skills. It will develop and refine strategies for listening with purpose, procedures for questioning, and everyday academic and social conversation skills.
Upon successful completion of this course, the student should be able to:
... Properly use socially correct and appropriate English in conversation.
... Properly use academically correct and appropriate English in conversation.
... Properly use various communicative functions of English:
giving information or advice; persuading others; agreeing or disagreeing; solving a problem and expressing preferences, necessities, opinions, reasons and feelings.
... Accurately integrate into conversation activities vocabulary that is specific to various situations.
... Frame grammatically correct and appropriate questions in large group discussions to clarify understanding of assignment objective, criteria, etc.
... Accurately recognize and understand the ways speakers organize and present information in academic discourse.
... Accurately extract essential information from a lecture.
... Actively participate in small group discussions and in short role-playing activities.

## 100 Expository Writing: A Guided Approach (3) WR

3 hours lecture per week
Prerequisite: 1) 11.5-12.9 on the English Placement Test with a
passing grade on the writing sample test, or 2) 13.0 or higher on the English Placement Test, or 3) C or better in ENG 22.
Critical reading and expository writing for the non-native speaker of English.
Upon successful completion of this course, the student should be able to:
... Evaluate materials which aid in the understanding of writing principles and form.
... Employ varieties of sentence patterns and use them with maturity.
... Demonstrate principles of rhetoric and logical development.
. . . Write coherent, unified and mechanically correct papers.
... Organize paragraphs with transitions between paragraphs and control essay forms for a variety of assignments.
. . Write a mini-research paper demonstrating correct research and documentation.

## FAMILY RESOURCES (FAMR) <br> 

230 Survey of Human Growth and Development (3) SS 3 hours lecture per week
Recommended Preparation: Qualification for or completion of ENG 100 or 160
A survey of human development from birth to death with emphasis on physical, cognitive and psychosocial development.
Upon successful completion of this course, the student should be able to:
... Describe various theories of human development and behavior.
... Describe physical, emotional, cognitive and psycho-social development during each stage of the life cycle.
... Identify similarities of development and functions in human beings.
... Recognize individual differences and uniqueness of experience in the development of human beings.
... Describe principles of behavior change.
... Express ideas and opinion clearly in writing.

## FOOD SERVICE \& HOSPITALITY EDUCATION (FSHE)

## 518

## 100 Foundations of Guest Services (3)

2 hours lecture/2 hours lecture/lab per week
A course designed to familiarize the student with the manpower needs and career opportunities in the hospitality industry and to identify the job qualifications, professional standards, communication skills and attitudes essential for successful workers in the hospitality industry.
Upon successful completion of this course, the student should be able to:
... Identify the functions, job titles, work requirements and operating procedures of the food, lodging and transportation components of the hospitality industry.
... Assess the work qualifications, attitudes and values essential for a successful career in the service industry.
... Project positive attitudes through learning communication and behavioral skills appropriate for quality guest relations.
. . . Provide quality service by knowing how to satisfy the needs and expectations of a culturally diverse public.
... Identify current and future trends and practices of the industry.
... Evaluate the importance of the service industry locally and nationally.
... Demonstrate use and understanding of the job application process.

101 Introduction to Hospitality Industry (3)
3 hours lecture per week
Overview of travel industry and related major business components.
Analysis of links between hotel, food, transportation, recreation and other industries comprising tourism. Includes lectures by industry leaders.
Upon successful completion of this course, the student should be able to:
... Identify the roles and explain the interrelationships of the various sectors of the travel and tourism industry.
... Identify today's travel market needs and motivations.
. . . Describe the characteristics and use of the channels of distribution used in the travel and tourism industry.
... Identify the organizational and operational characteristics of transportation and accommodation firms.
. . . Describe the tourism systems and services designed to serve the leisure travel market.
... Identify methods for attracting and servicing business travel, including conventions, meeting and incentive travel market segments.
... Describe the sales and marketing activities utilized in the travel and tourism industry.
... Describe the impact of tourism destination development on the society of a destination.
... Identify career opportunities in the various sectors of the travel and tourism industry.

## 103 Sanitation and Safety (2)

## 2 hours lecture per week

The study and application of the principles and procedures of sanitation and safety in the hospitality industry. Includes the study of food-borneillnesses, their modes of transmission and control through the development of sanitation and safety programs.
Upon successful completion of this course, the student should be able to:
.. . Identify the difference between sanitary and clean as they pertain to people, equipment and facilities.
. . . identify cases of food-borne illness in relation to possiblesources, transmission and method of prevention.
... Identify sanitation procedures for purchasing, receiving, storing, issuing, preparing, building and service of safe food and beverage products.
... Identify and demonstrate concern for personal hygiene.
... Identify procedures for maintaining a sanitary and safe operation through an employee awareness program.
. . Identify insects and rodent infestation and measures to prevent infestation problems.
.. . Develop a sanitation and safety program.
... Complete a sanitation and safety inspection in a hospitality operation.
. . . Identify local, state and federal sanitation and safety regulations.

## 110 Fundamentals of Cookery (4)

2 hours lecture, 12 hours lab
An introduction to the fundamental concepts, skills and techniques of cookery. Includes the study of culinary terms and ingredients; cooking theories and procedures for making stocks, soups and sauces; basic cooking methods; handling and preparation techniques for fruits, vegetables and starches; proper use of recipes, tools and equipment with special emphasis on knife handling skills. Students must pass a practical cooking examination. An eight week modular course.
Upon successful completion of this course, the student should be able to:
... Describe the jobs of a chef, sous chef and cooks at the various stations in a typical kitchen.
... Demonstrate an understanding and acceptance of generally accepted standards of professionalism.
... Adhere to the established dress code.
... Demonstrate safe and sanitary practices in food preparation.
. . . Identify, use safely and maintain correctly the following pieces of equipment: range, oven, fryer, steam kettle, compartment steam cooker, griddle, toaster, mixer, refrigerators and freezers.
. . . Identify and describe the use of other commercial food preparation equipment such as the salamander, tilting skillet, food chopper, food grinder, etc.
... Identify, practice and maintain correctly the various types of small equipment, pots, pans, measuring devices and hand tools.
... Identify, practice and demonstrate the proper techniques for handling and sharpening knives.
. . . Describe the ways heat is transferred to food in order to cook it.
. . . Describe the basic cooking methods used in a commercial kitchen.
... Describe the basic principles of seasonings and flavorings in food preparation.

Explain the importance of recipes, their structure and use in commercial food preparation.
... Explain the importance of the menu and its functions in food preparation.
... List and explain the nutritional considerations that go into menu planning.
... Practice organizational and preparation (mise en place) techniques as part of commercial food preparation training.
... Identify and demonstrate the skills used in preparing the basic stocks.
Identify and demonstrate the basic methods of cutting and shaping vegetables.
... Identify and prepare the mother sauces.
Identify and demonstrate the skills used in preparing the basic classes of soups.
Recognize the various types and cuts of meat (beef, veal, lamb and pork) and describe the various preparation and service methods.
Recognize the types and market forms of poultry (chicken, duck, turkey and goose) and describe the various preparation and service methods used for them.
Prepare and serve chicken and turkey, applying the basic cooking methods used in commercial food service.
... Identify types and market forms of fish and shellfish and describe preparation and service methods for these.
Identify, store, handle, clean, prepare and serve fruits and vegetables.
Identify, store, handle and prepare market forms of rice, pasta and other grains.
Identify, prepare and serve types of salads: appetizer, accompaniment, main course, separate course and dessert.
... Identify, prepare and serve types of dressings: oil and vinegar, mayonnaise and boiled.
. Identify, prepare and demonstrate the skills used in preparing eggs, breakfast breads, cereals and breakfast meats.
. . . Identify, store, handle and serve dairy products.
. . Explain the importance of attractive hot and cold food presentation.

## 119 Intermediate Cookery (5)

2 hours lecture, 24 hours lab per week
The application of basic concepts, skills and techniques in fundamentals of cookery to short-order cookery, including breakfast cookery, as found in coffee shops, drive-ins and snack bars; to quantity food production with emphasis on menu development, recipe standardization and conversion and quality control. Includes quantity food production and short-order cookery experiences in the college's cafeteria. This is an eight-week modular course.
All competencies developed in the Fundamentals of Cookery Course are utilized and reinforced in this course. In addition, upon successful completion of this course, the student should be able to:
... Describe the jobs of cooks and chefs that are employed in quantity food production and short order kitchens.
Apply the principles of menu planning to plan a balanced menu for quantity food production.
... Convert and standardize recipes.
. . . Apply principles of sanitation in receiving, storing, handling, preparing and serving foods in large quantities.
Apply the principles of quantity food preparation to determine
purchasing needs, preparation needs and equipment needs.
... Apply portion control to effectively manage quantity food production and service.
. . . Select the proper kinds of meats, fish and poultry for quality quantity food production.
. . . Apply the principles of cookery to produce meat, fish and poultry entrees in large quantity.
. . . Organize and work a short-order station for breakfast and lunch.
. . . Organize and produce sandwiches in small and large amounts.
. . . Identify, select and prepare vegetables that are appropriate for quantity food service.
... Identify, select, store, handle, prepare and serve salads in quantity.
... Apply the principles of stock preparation to produce appropriate sauces in large quantities.
... Organize and work the various stations in a cafeteria: serve salad, soup, sandwich, entree, short order and beverage.
... Incorporate convenience foods into the menu effectively to provide menu variety.
. . . Select, store, handle, prepare and serve convenience foods maintaining optimum quality.
. . . Apply sanitation principles in quantity food production.

## 122 Fundamentals of Baking (5)

2 hours lecture, 24 hours lab per week
An introduction to the fundamental concepts, skills and techniques of basic baking. Special emphasis is placed on the study of ingredient functions, product identification, weights, measures and proper use and maintenance of bakeshop tools and equipment. Students are assigned to stations each day and are required to apply the basic baking concepts and techniques in preparing bakery items such as basic quick breads, yeast breads, rolled-in dough, paté choux, pies, cakes, cookies, puddings and pastry creams. This is an eight-week modular course.


Photo by Moriso Teraoka

Upon successful completion of this course, the student should be able to:
... Describe the jobs of a pastry chef, baker and pastry helper.
... Demonstrate an understanding and acceptance of generally accepted standards of professionalism.
. . . Adhere to the established dress code.
... Demonstrate safe and sanitary practices in baking.
... Identify, use safely and correctly maintain the following pieces of equipment: range and oven, deck oven, rack oven, proofer, refrigerator, freezer, sheeter, dough molder, varimixer, mixer, trunnion kettle and donut fryer.
... Identify, use safely and correctly maintain the various types of small equipment and hand tools typically found in a bakery.
. . . Explain the basic principles of baking.
. . . Describe the properties and list the functions of various ingredients used in baked products.
. . . Weigh and measure ingredients used in baking.
. . . Convert recipes accurately.
. . Define baking terms.
... Prepare yeast doughs and identify their various reactions.
. . Prepare quick breads.
... Prepare and decorate cakes and describe the techniques used in mixing, baking and basic decorating.
. . . Produce a variety of pies.
.. Prepare puff dough and dessert specialties.

## 128 Dining Room Service/Stewarding Procedures (4)

2 hours lecture, 18 hours lab per week
The study and practice of a variety of table service techniques with special emphasis on the importance of the relationship and coordination between the front and back of the house. Includes the study of the steward's department in a hotel or food service establishment; familiarization of alcohol laws, server's responsibility; introduction to the service of wines. This is an eight-week modular course. Upon successful completion of this course, the student should be able to:
... Correctly serve guests using arm, tray or gueridon, serving courses properly and with appropriate timing in the following styles of services:

- American
- Banquet
- Buffet
- French
- Russian
. . . Properly present, open and serve wine with the meal.
... Explain and demonstrate the job responsibilities of the various dining room personnel, including side jobs.
... Interact with dining room guests courteously.
. . . Explain common food and menu terms.
... Demonstrate appreciation of good dining through demonstrating good manners and providing good service.
... Demonstrate essential technical, attitudinal and conceptual skills required of waithelp and bushelp.
. . . Demonstrate self-confidence and the understanding of teamwork, job knowledge and technical skills involved by servicing guests effectively.
. . . Discuss and describe the various types of alcoholic beverages.
. . . Describe effective stewarding practices.


## 150 Housekeeping Operations (4)

3 hours lecture, 2 hours lecture/lab per week
The study of the professional management of housekeeping operations including the planning, organizing, staffing and control techniques required to assure quality service.
Upon successful completion of this course, the student should be able to:
... Identify the tasks and responsibilities carried out in various housekeeping positions.
. . . Describe the interrelationships between the housckeeping department and other departments of a hotel.
... Identify the personal attitudes, characteristics and work practices essential in providing excellence in housekeeping service.
... Demonstrate safe, sanitary and efficient cleaning procedures for various housekeeping tasks.
... Identify effective housekeeping equipment selection, storage, maintenance and control procedures.
. . . Describe the housekeeper's role in the renovation and restoration of facilities.
... Describe linen room operations and control techniques.
... Describe laundry room operations and control techniques.
... Describe the use of computers in housekeeping operations.
... Identify techniques for recruiting, selecting, training, scheduling and motivating housekeeping employees.
... Describe the budgeting, record-keeping and reporting requirements of a housekeeping department.

## 152 Front Office Operations (4)

3 hours lecture, 3 hours lab per week
Study of the philosophy, theory, equipment and current operating procedures of a hotel front office, concentrating on the human relations skills necessary for effective guest and employee relations and the technical skills necessary to operate a manual, mechanical or computerized front office operation.
Upon successful completion of this course, the student should be able to:
... Identify the tasks and responsibilities carried out in various front office positions.
... Describe the interrelationships between the front office and other departments of a hotel.
... Identify the personal attitudes, characteristics and work practices essential in providing excellence in front office guest service.
... Demonstrate computer proficiency in reservations, check-in, posting and settlement and night audit functions of the front office.
. . . Understand guest accounting procedures.
... Identify controls for cash collection, check cashing and the acceptance and processing of credit cards.
... Demonstrate effective complaint handling procedures.
... Demonstrate effective telephone call handling techniques.
... Produce and analyze management reports.
... Identify staffing requirements of a front office.

## 154 Food and Beverage Operations (4)

3 hour lecture, 2 hours lecture/lab per week
Introduction to the principles of marketing, menu planning, service
styles, nutrition, sanitation and safety, purchasing and control sys-
tems as they apply to food and beverage management in an operational setting. Includes the study and practical application of food and beverage management, techniques to effectively manage resources: money, personnel, food and beverage products and time. Upon successful completion of this course, the student should be able to:
. . . Recognize and demonstrate quality service to guests.
... Identify the importance of trends in food and beverage operations.
...Discuss the management process as it relates to food and beverage operational activities.
... Present, discuss and analyze marketing and sales tools available to food and beverage operations.
... Practice sound nutrition principles ir, planning food production and service to meet the wants/needs of today's guests.
... Develop and implement a sanitation and safety program as it pertains to guests, employees, equipment and facilities.
... Identify the various operational techniques that meet the psychological needs of guests.
... Effectively manage the purchasing, production and service of food and beverage.
... Describe basic accounting techniques as they apply to food and beverage operations.
... Identify the effects of equipment layout and design on operational efficiency and profitability.

## 160 Reservations and Ticketing (3)

6 hours lecture/lab per week
This course is designed to prepare students with the necessary knowledge and skills to develop domestic and international itineraries and construct fares according to the standards established by the Intemational Air Transport Association (IATA) and domestic areas Upon successful completion of this course, the student should be able to:
... Function effectively as a team member in the delivery of the travel product to the consumer.
... Peiform routine travel agency operational procedures successfully.
. . . Plan itineraries and write tickets.
. . . Prepare Passenger Name Records (PNR).
... Use industry publications as reference material.
. . . Distinguish between various types of airline codes.
... Change and modify tickets.
... Know how to access information on the Airline computer systems.

## 185 Concepts in Nutritional Science (3)

3 hours lecture per week
A study of the relationship of food and nutrition to health. Includes the six categories of nutrients, their characteristics, physiological functions and food sources and their effect on the needs of the human body throughout the life cycle. Emphasis will be placed on the application of sound nutrition principles to menu planning and food preparation to maximize nutrient retention during food preparation, storage and service and to control the use of certain nutrients in order to promote health and nutrition trends of today.
Upon successful completion of this course, the student should be able to:
. . Identify and describe the six categories of nutrients, their charac-
teristics, physiological functions and common food sources. Trace the process of digestion of food in the human body.
... Determine energy requirements based upon basal metabolic rate and exercise expenditure.
... Analyze and evaluate the nutritional content of meals.
. . Use the basic food guide to select foods for a balanced diet.
. . . Plan a well-balanced diet using foods available, keeping within budgetary limitations.
... Explain the changes in nutritional needs as they relate to the life cycle.
... Describe ways to maximize nutrient retention in food storage, preparation and service.
... Describe the effects of additives in food.
... Recognize food fads and the effect they have on menu planning.

## 193 Hotel Internship (4)

400 hours work experience in industry
The student is required to document the completion of 400 hours in a hotel or food service work position approved by the instructor. This requirement will provide the student with hands-on experience in an industry work position where they can apply technical, communication and interpersonal skills and develop new skills and work practices that can be applied to their remaining course work.
Upon successful completion of this course, thestudent should be able to:
... Describe and evaluate the orientation and training program they experienced.
... Describe the procedures for the tasks they performed in their food service position.
... Draw and explain the organizational structure of the company they worked in.
Describe the working relationships between their department and other departments in their organizations.
... Identify the personal qualities, work habits and attitudes that lead to professionalism in the work place.

## 210 Asian/Pacific Cuisine I (5)

2 hours leclure, 24 hours lab per week
Prerequisite: Satisfactory completion of Certificate of Completion in Food Service or consent of instructor.
A study of Chinese and Indian cuisines. The evolution of the cuisines of the Southeast Asian countries; the influence that China, India and various European countries had on these Southeast Asian cuisines. Emphasis on the culinary traditions, specialties and the use of indigenous ingredients that distinguish one Southeast Asian cuisine from another. This is an eight-week modular course.
Upon successful completion of this course, the student should be able to:
... Use the wok and other equipment typically used in Asian cookery.
... Cut meats and vegetables in the Asian style.
... Identify and use the Asian herbs and spices typically used in each country's cuisine.
... Prepare from tested recipes each country's specialties in the following groups: soups, salads, main entrees, pickles, desserts and side dishes.
. . . Trace the origin of some special dishes and identify the similarities and differences.
. . . Demonstrate an awareness and consciousness of colors, shapes, textures and flavor of each presentation.
... Apply the technical skills and methods learned in this course to the creation of new dishes and other styles of cooking.

## 211 Asian Pacific Cuisine II (5)

2 hours lecture, 24 hours lab per week
Prerequisite: Satisfactory completion of Cerificate of Completion in Food Service, Culinary Arts option or consent of instructor A study of Japanese, Korean, Hawaiian and Pacific-Island cuisines. Emphasis on the culinary traditions, specialties and the use of indigenous ingredients that uniquely distinguishes each ethnic group. This is an eight-week modular course.
Upon successful completion of this course, the student should be able to:
. . . Prepare from tested recipes popular Japanese, Korean, Hawaiian and Pacific-Island specialties in the following groups; pickles, soups, entrees, noodles, salads and desserts.
.. . Prepare dishes commonly served at a Hawaiian luau.
... Use the techniques and presentations learned to combine Asian/ Pacific specialties with those of other cuisines of the world preparing an international buffet or create new dishes to fit into new menus.
. Understand thegeographical, historical and cultural background to each country, the interrelationship of each country with the others and recognize the ways these backgrounds are expressed in the cuisine of the countries studied.
Identify differences and similarities between the various cuisines studied.
... Develop an appreciation for the specialties, culinary traditions and virtuosity of the various cuisines studied.
... Recognize and appreciate the reciprocal impacts of European and Asian/Pacific cuisines.

## 214 International Cuisine (5)

2 hours leclure, 24 hours lab per week
Prerequisite: Satisfactory completion of Certificate of Completion in Culinary Arts or consent of instructor
The expansion of skills gained in Fundamentals of Cookery, emphasizing creativity and the refining and perfecting of skills and techniques acquired; specializing in cook-to-order dishes typically served in hotels and fine dining restaurants with emphasis on European, Asian and American regional cuisines. Includes culinary experiences, emphasizing station organization in the College's fine dining restaurant. This is an eight-week modular course.
Upon successful completion of this course, the student should be able to:
... Identify, operate safely and properly maintain equipment that is typically used in an international cuisine kitchen, such as: broiler, salamander, bain marie and thermotainers.
Identify, operate safely and properly maintain food processing equipment such as the food chopper, grinder, blender and food processor.
Demonstrate proficiency in all equipment and hand tools listed in the Fundamentals of Cookery course, plus pastry bags with appropriate tips, melon bailers, zesters, etc.
Organize and work at the kitchen stations proficiently.
Apply the basic principles of cookery to create classical dishes in international cuisine.
... Demonstrate the use of menus and recipes in planning and implementing production.
... Incorporate nutritional considerations into the international cuisine menus.
... Prepare variations of soups in Continental, American Regional and Asian cuisine.
... Demonstrate skills in preparing all mother and small sauces; simple and compound butters; reductions and glazes.
... Identify and compare characteristics of seasonings, flavorings, spices and herbs
... Demonstrateskills in egg cookery as they apply to fine dining, i.e. custards, quiches, crepes, soufflés, etc.
... Identify cuts/markel forms of beef, veal, pork, lamb, poultry and fish and shellfish, differentiate the cooking methods for each.
... Describe the major bone structure in beef, veal, pork, lamb, poultry and fish in relation to carving/deboning.
... Apply the principles of selecting and preparing fruits and vegetables and create dishes and salads typically served with international regional cuisine.

## 222 Patisserie (5)

2 hours lecture, 24 hours lab per week
Prerequisite: FSHE 122
An advanced course in hotel and restaurant baking techniques; refinement of baking skills; in-depth study of international and classical confectionery; application of advanced techniques in the preparation of gourmet specialties in breads, puff pastry, paté choux, international French pastries, petit fours and gateaux, Bavarian creams, souffies and ice cream desserts. This is an eight-week modular course.
Upon successful completion of this course, the student should be able to:
... Identify current and future trends and practices of the industry. Evaluate the importance of the food service industry locally and nationally.


Photo by Moriso Teraoka
A flower basket created from sugar and cornstarch.
... Describe the job responsibilities of a pastry chef and a pastry cook.
... Organize and schedule work in a pastry kitchen to produce international desserts.
... Describe the properties and functions of various ingredients used in baked products.
... Apply mathematical skills and convert recipes accurately.
... Define international and classical baking terms, particularly French terms.
. . . Name all tools and equipment typically found in a pastry kitchen and correctly demonstrate their uses.
... Demonstrate standards for personal hygiene and good work habits.
... Clean and properly maintain all tools and equipment found in a commercial pastry kitchen.
... Apply the basic principles of yeast dough preparation to prepare specialty breads, rolls and pastries.
. . . Refine the principles of puff pastry preparation and apply these principles to prepare classical puff pastry goods.
. Apply the principles of choux paste preparation to prepare a variety of complex pastries made from choux paste.
... Apply the principles of egg white foam formation to prepare a selection of egg white foam pastries.
... Identify the quality characteristics of eggs and the principles of egg cookery and apply these principles to prepare classical desserts made from egg bases.
... Apply the principles of gelatin preparation to prepare classical gelatin-based desserts.
... Identify the two most frequently used methods for combining cake ingredients and apply these principles to prepare international gateaux, French pastries and petit fours.
... Apply the basic principles and methods of assembling and decorating to produce classical cakes and torten.
... Apply all advanced baking principles and prepare a variety of classical and international desserts.
. . . Develop procedures in a recipe that would provide a sequential step-by step process for the user.

## 224 Confisserie (5)

2 hours lecture, 24 hours lab per week
Prerequisite: Satisfactory completion of the Certificate of Completion in Patisserie or consent of instructor
A course that emphasizes the skills, techniques and knowledge needed to prepare confectionery specialties using chocolate, sugar and marzipan. The unique properties of each of these items are emphasized to produce specialty items as: caramels, nougats, fondants, pastilles, ganache, gianduja, modeled marzipans, cocoa paintings, pastillage, etc. This is an eight-week modular course. This course applies the skills, techniques and knowledge gained in Fundamentals of Baking and in Patisserie to learn the principles and techniques necessary in the preparation of confectionery products. Upon successful completion of this course, the student should be able to:
... Describe the job responsibilities of a confisserie chef.
... Describe the organization of a typical confisserie kitchen.
. . . Identify, operate safely and properly maintain equipment that is typically used in a confisserie: candy-making range, tools, thermometer, copper kettles and other hand-tools used in preparing candy.
... Identify and describe the functions of all ingredients used in a confisserie.
... Define and understand all terms used in a confisserie.
... Demonstrate the use of all measuring equipment accurately.
. Demonstrate the understanding of the principles of tempering chocolates.
. . . Define the various degrees/temperatures in sugar cooking.
... Demonstrate the understanding of the principles of producing chocolate centers made from a variety of mixtures such as: ganache, gianduja, marzipan, fondant, nougats, caramel and liquors.
Demonstrate the understanding of the techniques of modeling marzipan and apply it to create such items as fruits, vegetables, animals, figurines and seasonal showpieces.
Demonstrate the technique of making royal icing and apply this knowledge to lettering and decoration of cakes and display.
Demonstrate the understanding of the principles and techniques of sugar boiling and apply this knowledge to create display pieces of poured-spun-pulled and blown sugar, caramels, nougats and fondants.
. . . Demonstrate the understanding of the principles of applying all these ingredients to the production of fancy pastries, petit fours, glacé, cakes and display show pieces.

## 228 Dining Room Supervision (4)

## 2 hours lecture, 18 hours lab

## Prerequisite: FSHE 128

Study and practice of dining room operations with emphasis on guest relations, supervisory and training techniques. This is an eight-week module.
Upon successful completion of this course, the student should be able to:
. . . Take telephone reservations and accurately record parly requirements.
... Greet guests, escort them and seat them at assigned tables.
... Supervise dining room staff.
... Prepare job assignments and stations to dining room staff.
... Maintain standards of cleanliness, grooming, service and atmosphere.
... Enforce safety and sanitary regulations.

## 240 Hospitality Purchasing (3)

5 hours lecture, 5 hours lecture/lab per week
Prerequisite: Satisfactory completion of the Certificate of Comple-
tion in Food Service, all options, or in Hotel Operations or consent of instructor
The study of purchasing and storeroom operations in relation to small and large hospitality operations. Students will participate in ordering, receiving, storing, issuing and controlling foods, beverages and other related supplies as they apply to the College's operational setting. This is an eight-week modular course.
Upon successful completion of this course, the student should be able to:
. . . Order by standard specifications, all food and supplies in the amounts required based on menus, standardized recipes and sales histories.
. . . Receive merchandise by standard specifications and accurately record the necessary data.
... Store correctly all inventory purchases, maintaining maximum
security, sanitation, safety and inventory records.
... Issue and distribute merchandise requested by departments and maintain accurate records.
... Describe the involvement and importance of a well-run storeroom within the context of the total control system.

## 241 Hospitality Cost Control (4)

5 hours lecture, 12 hours lab per week
Prerequisite: FSHE 240 (may be concurrent)
Study of cost control systems as they apply to restaurants, hotels and other food and beverage operations such as the college food service complex. Includes experience in preparation of financial and control related reports and the analysis of such. Utilizes the practical learning experiences of the computer laboratory to anchor and reinforce knowledge.
Upon successful completion of this course, the student should be able to:
. . . Describe the principal elements of the cost control cycle.
.. Define cost and describe the principal kinds of costs.
. . . Identify basic menu planning concepts.
... Identify the major components of a Management Information System and their functions.
... Discuss the importance of specifications and describe their common elements.
. . . Understand the principles of determination of product quality.
. . . Discuss proper receiving and storage procedures.
. . . Identify major variables in food service and hotel forecasting.
... Recognize the function of food production control and its relation to cost and consumer satisfaction.
. . . Identify the major kinds of payroll costs.
. . . Identify and know the uses of the major payroll-control tools.
... Identify the principle means of monitoring beverage costs and how they are used.
. . . Understand the budget planning process.
... Know the principal bases on which budgets are drawn.
... Identify the key ratios for the analysis of operating and financial health.
... Prepare order requests for supplies as needed.
. . . Become familiar with common decision-making tools for investment decisions; key decisions.
... Be familiar with basic computer spreadsheet programs and their application in cost control.

## 245 Beverage Operations (3)

2 hours lecture, 3 hours lab per week
Prerequisite: Satisfactory completion of the Certificate of Completion in Food Service or Hotel Operation or consent of instructor
A study of the principles and practices of profitable beverage operations including: beverage procedures, storage, mixology and quality control techniques; pricing for profit; bar equipment and layout; staffing; licensing and regulations; and alcohol liability concerns.
Upon successful completion of this course, the student should be able to:
.. Describe the historical importance of alcohol in rituals, medicine, food and drink and fellowship.
... Describe how the basic elements of bar layout affect guest satisfaction and the efficiency and profitability of the operation.
. . . Identify selection considerations for various types of bar equip-
ment, hand tools and glassware.
.. Describe the staffing requirements of a bar and special considerations in the recruitment, selection and training of beverage operations personnel.
... Identify sanitary procedures for setting up and closing a bar.
... Identify the production processes, distinctive characteristics and service requirements of fermented and distilled beverages.
... Identify the structure, ingredients and basic mixing methods for various types of drinks.
... Describe purchasing, receiving, storage, issuing and inventory policies and procedures used in beverage operations.
... Describe the processes of budgeting, pricing for profit and developing sales records and cash controls.
... Describe beverage marketing and merchandising techniques. Identify local, state and federal laws and licensing regulations for beverage operations.
. . Explain how to limit liability through alcohol awareness programs designed to promote safe and responsible use of alcohol.

256 Hotel Accounting (3)
3 hours lecture per week
Prerequisite: Satisfactory completion of the Certificate of Completion in Hotel Operations or consent of instructor
An introduction to basic accounting principles and the accounting cycle as applied to hotel operations. Includes accounting for expenses, fixed assets, inventory, sales, equities and the preparation and analysis of financial slatements and management reports.
Upon successful completion of this course, the student should be able to:
.. . Define basic accounting principles and concepts.
... Explain the difference between cash and accrual accounting as used in hotel operations.
. . . Explain how transient ledger and city ledger transactions affect the fundamental accounting equation.
. . . Complete a hotel practice accounting problem following the steps in the accounting cycle.
... Calculate depreciation using three different methods.
... Explain expense accounting and control procedures used in hotel and food and beverage operations.
... Calculate the value of hotel and food and beverage inventory using four different methods and explain how each affects net income.
... Explain the accounting procedures and government reporting requirements for payroll accounting, including the recording of free room and meals.
. . . Describe the accounting procedures for the various profit centers of a hotel.
. . Interpret basic hospitality accounting reports used by managers for decision-making.

258 Hotel Marketing and Sales (3)
3 hours leclure per week
Prerequisile: Satisfaclory completion of the Certificate of Completion in Hotel Operations or consent of instructor
A study of modern marketing and sales techniques and concepts for the hotel industry, including human factors, consumer demand and planning.
Upon successfil completion of this course, the student should be able to:
. . . Describe differences between hotel sales and marketing.
. . . Identify the techniques of hotel sales and marketing.
... Describe methods of merchandising tangible and intangible hospitality products and services.
. . . Demonstrate the ability to develop a hotel marketing and sales plan.
. . . Describe media selection considerations for hotel operations.
Explain how advertising, public relations and promotions are used in hotel operations.
... Describe the sales relationship between the travel agent and tour wholesaler and the hotel.
Explain the importance of the various sales tools used to sell a hotel and all its goods and services.
... Describe the principles and mechanics of hotel advertising.
... Demonstrate the mechanics of layouts for ads, publicity releases and collateral materials used for promoting hotel rooms, food and beverage and meeting and convention facilities.
. . . Describe the importance of the message in the creation of hotel ads.
... Discuss the development of a hotel sales and marketing budget.
... Describe the different plans for marketing meals in food and banquet services and hotel accommodations.

## 260 Hotel Law (3)

## 3 hours lecture per week

Prerequisite: Satisfactory completion of the Certificale of Completion in Hotel Operations or consent of instructor
Study of the laws and regulations affecting the hospitality industry as they relate to guests, employees and others.
Upon successful completion of this course, the student should be able to:
... Describe the evolution of hotelkeeping law from English common law to contemporary American civil law.
... Identify the hotelkeeper's rights and responsibilities regarding the hotelkeeper-guest relationship.
. . Describe situations in which a hotel may refuse accommodations to a guest.
... Explain the guest's legal right to privacy in a hotel.
... Identify legal procedures to follow in evicting a guest.
. . . Identify legal procedures to follow in the event a guest dies.
. . Explain the hotel's duties and limits of liability regarding the safekeeping of the person and/or property of guests or others.
Identify the laws and agencies which license and regulate hotel operations.
. Explain general contract law in relation to hospitality operations.
Describe the major criminal and tort laws affecting hotel operations.
. . Discuss the laws and regulations which affect the hiring, compensation, transferring, promotion, discipline and termination of employees.
... Identify a hotel's rights and duties in relation to unions.
Explain the tax laws regarding employee compensation and the sale of taxable goods and services.
... Discuss legal requirements for fire safety procedures and emergency action plans.

281 School Food Service Recordkeeping (2)

1 hour lecture, 2 hours lecture/lab per week Prerequisilc or corequisite: FSHE 290 or consent of instructor Specific procedures and forms used by the Department of Education in School Food Service Recordkeeping are covered in this course. Upon successful completion of this course, the student will be able to:
.. List the three types of United States Department of Agriculture (U.S.D.A.) programs and be able to describe them.
. . . Describe the types of food services offered through the Department of Education in Hawai'i.
... Define centralized and self-contained food service operations. Calculate the quantities of food to be purchased and used for serving school meals using the U.S.D.A. and Hawai'i Buying Guide.
... Pre-cost recipes and menus.
... Adjust central menus to accommodate available Federal commodities.
... Use the forms developed for the School Food service recordkeeping.
... Demonstrate insight in interpersonal relationships.

## 283 Garde Manger (3)

2 hours lecture, 3 hours lab per week
Prerequisite: Satisfactory completion of the Certificate of Completion in Culinary Arts and FSHE 214 or consent of instructor
A study of the basic garde manger principles as well as the functions and duties of the department as it relates and integrates into the other kitchen operations. Techniques and skills in the preparation of specialty items such as aspics, chaud-froids, forcemeat,patés, terrines, galantines, mousses, as well as ice sculpturing, tallow sculpturing and vegetable-carving will be covered.
Upon successful completion of this course, the student should be able to:
... Describe the typical responsibilities of a garde manger.
. . . Define the terms that are used in garde manger.
... Identify, operate safely and properly maintain equipment that is typically used in a garde manger kitchen: food cutter, food chopper, food processor and blender.
. . . Demonstrate proficiency in the use of hand tools used in garde manger: French, paring and boning knives, meat saw, scalpel, trussing needle and various carving tools.
. Explain the organization of a garde manger kitchen.
Demonstrate the use of recipes in planning and preparing items for a buffet.
... Demonstrate skills and knowledge in the preparation of aspic, chaud-froid, forcemeat, etc.
Incorporate nutritional consideration in the preparation of garde manger items.
... Incorporate an international theme into garde manger work.
... Demonstrate skills in preparing items such as canapes, hors d'oeuvres, galantines, etc.
... Demonstrate skills in decorating buffet items such as: ham, poultry, aspic, mousse, seafood, etc.
... Demonstrate skill in creating artistic displays such as vegetable carving, ice carving and tallow sculpture.
... Explain the planning process of a typical buffet set-up.
... Apply all the knowledge gained to create a buffet display.


Photo by Moriso Teraoka

## 285 The Science of Human Nutrition (3)

3 hours lecture per week
A biological science course which integrates the basic concepts of science with the study of human nutrition. Emphasis is placed on the nutrient requirements of healthy individuals, nutrient categories and their characteristics, physiological functions and food sources. Includes the review and adaptation of dietary practices to reflect current nutritional concerns and issues.
Upon successful completion of this course, the student should be able to:

Utilize the appropriate recommended nutrient intake and diet planning guides to effectively plan a nutritionally sound menu.
... Explain the digestion, absorption and metabolism of the various nutrients.
. . . Describe the most common digestive disorders.
... Utilize information on calories in food to maintain energy balance and weight control.
... Explain the characteristics, physiological functions and food sources of carbohydrates: sugar, starch and fiber.
... Explain the characteristics, physiological functions and food sources of lipids: fats, oils, phospholipids and sterols.
... Explain the characteristics, physiological functions and food sources of proteins: amino acids.
. . . Describe metabolism: nutrient transformations and interactions.
. . . Explain the characteristics, physiological functions and food sources of the water soluble vitamins: B Vitamins and Vitamin C.
... Explain the characteristics, physiological functions and food sources of the fat soluble vitamins: A, D, E and K.
... Explain the characteristics, physiological functions and food sources of water and major minerals.
... Explain the characteristics, physiological functions and food sources of the traceminerals.
... Recommend appropriate nutritional intake to persons in the various stages of the life cycle through controlling the intake of certain nutrients.
. . List ways to maximize nutrient retention in food storage, preparation and service.
... Explain the effects food processing and food additives have on the quality and nutritional value of foods.
... Describe the advantages and disadvantages of food labeling.

286 Therapeutic Nutrition (3)
3 hours lecture per week
Prerequisite: FSHE 285
The application of the principles of normal nutrition to modified diets to meet the disease conditions of the client. Emphasis will be placed on therapeutic diets based on modification of the nutritional components of the normal diet as particular disease conditions may require. Modifications to the following will be included: nutrients, energy and texture.
Upon successful completion of this course, the student should be able to:
. . Apply the principles of diet therapy to modify diets.
... Demonstrate an understanding of the following disease conditions so the student can effectively modify the food intake of the affected clients: diabetes; obesity; cardiovascular disease; gastrointestinal disease; renal conditions; allergy conditions.
. . . Demonstrate an understanding of the following disease conditions so they can effectively meet the nutritional needs of the clients: cancer; immobilized physically impaired; developmentally disabled; clients with enteral/parenteral needs.
... Demonstrate the ability to write a nutritional assessment and care plan.
... Direct the preparation of meals with dietary modifications.

## 288 Menu/Equipment/Layout (3)

2 hours lecture, 2 hours lecture/lab per week
Prerequisite: Satisfactory completion of the Certificate of Completion in Culinary Arts or consent of instructor
A study of the factors involved in planning a menu, equipment needs and facilities. Includes the design, format, selection and balance of menu items, including merchandising; the determination of equipment needs based on the menu items; the selection, use and maintenance of the food service equipment; and the study of the layout and design of the selected equipment.
Upon successful completion of this course, the student should be able to:
... Identify the various types of food service establishments and identify their menu requirements.
... Discuss the factors that influence menu planning.
... Discuss the physical characteristics of a good menu.
. . . Identify the different types of menus and discuss their advantages and disadvantages.
... Explain why planning is important for a profitable food operation.
... Plan a balanced menu that meets the requirements of a wellplanned menu and determine the equipment and layout needs for this menu.
. . . List the appropriate equipment that fulfills the needs of the planned menu, using the criteria for selecting the various types of commercial food service equipment.
... Relate the location of equipment with their use and their placement within the flow of activities.
. . . Describe the steps in planning a layout of a food service facility.
... Create a kitchen and dining room floor plan.

290 Hospitality Management (3)
3 hours lecture per week
Prerequisite: Must be in final semester of program requirements The study of the management process in hospitality operations, focusing on the managerial functions of planning, organizing, staffing, directing and controlling to bring about organizational effectiveness. Scenarios, case studies and role playing exercises typical of the hospitality industry have been developed to reinforce principles. Upon successful completion of this course, the student should be able to:
... Develop a personal career advancement plan.
... Discuss the various roles of a manager.
. . . Describe the management functions of planning, organizing, coordinating, directing and controlling.
. . . Describe the role and use of computers in hospitality management information systems.
Discuss decision-making processes in hospitality management.
Explain how personal attitudes, values and ethics are formed, modified, or changed in individuals.
. . . Discuss techniques used to motivate individuals.
. . Differentiate between management and leadership.
. . . Describe the process of employee selection, placement, orientation, training, appraisal and discipline.
. . . Describe the role of unions in the hospitality industry.
... Plan, conduct and evaluate a training session.
... Identify factors that influence organizational culture.
. . . Discuss the importance of community relations to hospitality operations.

## 293C School Food Service Internship (3)

1 hour seminar plus 20 hours field experience per week (or 300 hours field experience in the summer).
Prerequisite: Completion of all required major course requirements or consent of instructor.
A planned practicum experience at a selected school site that will allow students to gain on-the-job experience in all phases of the School food Service operation. This course is specifically tailored to provide potential School Food Service Managers with a structured practicum prior to being employed.
Upon successful completion of this course, the student should be able to:
... Explain the organizational chart that shows the School Food Service Manager's position in relation to other personnel.
... Explain the layout of the school food service facility in relation to work and material flow, types of storage facilities, equipment commonly used in a school cafeteria and physical facilities.
. Show familiarity with school and cafeteria rules and regulations.
... Show familiarity with bargaining unit contracts.
... Explain the function and use of the Department of Education School Food Service Handbook.
. . Explain the use of the School Food Service forms.
... Describe the use of the Menu Planning Guide for School Food Service, the Food Buying Guide for School Food Service and the Supplement to Food Buying Guide for School Food Service, which are needed for School Food Service Menu Planning. Demonstrate the ability to purchase and receive food in School Food Service.
... Demonstrate familiarity in incorporating the use of Federal commodities in School Food Service menu.
... Explain the types of food services offered through the Department of Education.
. . Explain the cost control system used in the School Food Service System.
... Demonstrate some insight in interpersonal relationship.

## 293D Health Care Internship (3)

1 hour seminar plus 20 hours per week field experience
Prerequisite: Completion of all required major courses or consent of instructor.
A planned practicum experience at a selected health care site that will allow students to gain on-the-job experience at a selected health care site that will gain on-the-job experience along with specific application to the classroom theory and concepts. Structured experiences must be fulfilled in order to meet the program approval requirements by the Dietary Managers Association.
Upon successful completion of this course, the student should be able to:

Review menus to identify the sources of nutrients and their functions.
. . Plan menus that meet normal requirements for all the groups within the life-cycle.
... Adapt a menu to meet the religious and ethnic requirements of clients.
. . . Utilize the Daily Food Guides to plan a menu.
. . . Modify a normal menu to meet the needs of a diabetic, obese client, client with gastrointestinal disorder, client with renal disorder and client with allergy.
. . . Observe the types of care clients with special needs receive. (cancer, immobilized and physically impaired, developmentally disabled and clients with enteral/parenteral needs.)
. . . Observe, then implement a nutritional assessment and care plan.
... Participate in the following Food Production and Service activities:

- Supervision of food preparation.
- Menu planning and recipe standardization.
- Order by specification.
- Participate in issuing and controlling inventory.
- Adhere to safety and sanitation regulations.
- Know the use and maintenance of commonly used equipment.
- Participate in the facility quality assurance program.

Practice various human relations activities while at the internship.
... Develop an organizational chart of the facility to which you are assigned.
... Review the facilities policy and procedure manual and observe the relationship to the union and health care laws.
... Observe the use of nutritional records and charts that gather data and report back to your supervisor.

## 293E Hotel Operations Internship (3)

1 hours seminar per week plus 300 hours work experience total Prerequisite: Satisfactory completion of certificate of completion in Hotel Operations.
The student engages in a supervised hotel work experience which is
planned to meet the specific needs of the student. It enables the student to apply knowledge and skills learned in the classroom and laboratory activities in a work environment and to bring back new knowledge and experiences that the student may apply during the student's final semesters.
Upon successful completion of this course, the student should be able to:
. . . Describe the technical and human skills required of workers in the hospitality industry.
. . Identify the personal qualities, attitudes and work habits required of guest-contact employees.
... Apply classroom knowledge and skills in the work-place.
. . Perform the tasks required in the various workstations to which the student was assigned.
. . . Describe the interrelationships of the various departments in a hotel.
. . . Describe methods of quality assurance used in the industry.
. . . Explain the importance of lifelong learning in the constantly changing hospitality industry.
Clarify their career goals and aspirations.

## 294 Food Service Practicum (5)

2 hours lecture, 24 hours lab per week
Prerequisite: Completion of all major courses or consent of instructor
A course that will allow students to apply the knowledge, skills, techniques, managerial principles and attitudes gained through prior studies to operate a cafe on campus, serving in the various operational capacities. Responsibility for the success of the operation rests with the students. Evaluation is based on the success in attracting customers and the profits generated. This is an eight week modular course.
Upon successful completion of this course, the student should be able to:
... Develop overall knowledge of food service operations and develop the ability to organize and manage a food service operation.
Identify the job stations that will distribute span of responsibility to allow the restaurant to operate efficiently.
... Describe the job responsibilities of each of the positions required.
. . . Describe the menu that was developed by the management team of the week.
... List the policies and procedures that are directly affected by State and Federal regulations.
. . . Develop and implement procedures necessary to operate a table service restaurant.
... Develop and maintain quality standards in food purchasing, storage, preparation and service.
. . . Develop the ability to plan and supervise food production and service.
Experiment and implement new procedures and new ideas on menu items to encourage new trends.
... Establish quality control through recipe and product standardization.
. . . Promote high standards of service in the dining room by coordinating service procedures and timing.
. . . Develop a control system that will allow instant feed-back that
will provide management with appropriate information to make financial decisions.
. . . Describe some advantages and disadvantages in running a small operation and identify some of the constraints.
. . . List some of the marketing tools used to promote business.

## 295 Cornell Restaurant Administration Simulation Exercise (2)

## 2 hours lecture per week

Recommended Preparation: Be in final semester of program requirements.
Contemporary restaurant management issues are discussed and explored through the use of the Cornell Restaurant Administration Simulation Exercise. Participants will be actively involved in financial statement analysis, budgeting, strategic positioning and profit planning.
Upon successful completion of this course, the student should be able to:
... Show a conceptual understanding of the critical interactions of the variables that will either foster or hamper planning for profits within the food and beverage indusiry.
. . . Develop an understanding of.problem analysis skills.
Show an understanding of the effects that team dynamics and enhanced communicational skills have on profit planning.
... Show an understanding of the effects of marketing strategies on profit planning.
... Understand the effectiveness of quality managerial reports on profit planning.
... Understand the concept of menu engineering and its effect on profit planning.


## 101 Elementary French I (4) FL

## 5 hours lecture per week plus laboratory drill

A course designed for students with no background in the French language. The student learns basic French speech patterns and elementary grammar. Introduction to reading, writing and speaking modern French.
Upon successful completion of this course, the student should be able to:
... Understand with accuracy questions based on dialogues and reading drilled during the semester.
... Recognize and use an active vocabulary of about 600 words.
... Recognize and reproduce the sounds of the vowels, nasals, consonants, diphthongs and all combinations of letters.
... Discriminate statement versus question intonation.
... Express self in writing using correct grammatical structure and vocabulary appropriate to simple topics.
. . . Manipulate grammatical items such as the determinatives: definite, indefinite, possessive, demonstrative, interrogative and descriptive.
Use the verb tenses of imperative, present indicative, near future of common regular ER, IR, RE verbs and some irregular verbs.
... Understand the use of the elision and the contractions.
... Understand some aspects of everyday life and culture of Frenchspeaking peoples.

102 Elementary French II (4) FL<br>5 hours lecture per week plus laborafory drill<br>Prerequisile: FR 101 or equivalent<br>A continuation of FR 101.<br>Upon successful completion of this course, the student should be able to:

. . . Recognize and use a more varied vocabulary including idiomatic expressions.
... Talk about sports, entertainment, radio and television.
... Read a simple menu and talk about a meal.
... Ask about clothes in a department store.
... Names the parts of the body and physical handicaps.
. Use verb tenses: imperfect, future and conditional present subjunctive of all common regular verbs and some irregular.
. . . Recognize the passe simple, pluperfect, future perfect and past conditional.
.. Manipulate pronouns (direct and indirect, interrogative, relative, Qui, Que, Dont and demonstrative).
. . Use prepositions with geographical nouns.
. . . Name Francophone countries.
... Recognize the names of the major cities.
... Understand some aspects of every day life.
... Discuss and recite some poems.
... Communicate at an elementary level in the French language.

## 201 Intermediate French I (3) FL <br> 3 hours lecture per week <br> Prerequisites: FR 102, appropriate test placement, or instructor consent. <br> Continuation of French 101-102. Refinement of basic language skills through vocabulary development, communicative practice, articulated language lab exercises and review of grammatical structures. Confidence and fluency in written and oral expression will also be developed. Course will include readings on French culture and its influence in Hawai'i and other parts of the world. <br> Upon successful completion of the course, a student should be able to:

. Read selected short stories and articles about French history, culture and traditions, using a passive and active vocabulary of about 4,500 words broad enough to understand most everyday topics.
... Write one paragraph compositions and brief responses in exercises, demonstrating adequate mastery of noun forms; pronoun case; simple and imperfect verb tenses; conditional and imperative verb forms; simple modifier and article use.
... Discuss non-technical subjects using appropriate grammar and vocabulary, demonstrating adequate mastery of noun forms; pronoun case; simple and imperfect verb tenses; conditional and imperative verb forms; simple modifier and article use.
. . . Understand everyday conversation about non-technical subjects at a speed acceptable to a native speaker.
Appreciate the influence of French history, traditions and culture.

## 202 Intermediate French II (3) FL

## 3 hours lecture per week

Prerequisites: FR 201, appropriate test placement, or instructor's consent.
Continuation of French 202. Refinement of basic language skills.
Further vocabulary development and increased control over use of grammatical forms and idiomatic expressions in written and oral expression. Course will include more readings on French culture and its influence in Hawai'i and other parts of the world.
Upon successful completion of the course, a student should be able to:
... Read selected short stories and articles about French history, culture and traditions, using a passive and active vocabulary of about 6,000 words.
... Write one to two page compositions, demonstrating adequate mastery of relative, demonstrative and indefinite pronoun forms; perfect verb tenses; tense sequences; verbals; conjunctions; passive voice; direct and indirect discourse.
... Discuss non-technical subjects using appropriate grammar and vocabulary, demonstrating adequate mastery of relative, demonstrative and indefinite pronoun forms; perfect verb tenses; tense sequences; verbals; conjunctions; passive voice; direct and indirect discourse.
... Further understand the influence of French history, traditions and culture.


## 101 Man's Natural Environment (3) NS3

3 hours lecture per week
Recommended Preparation: Qualification for or completion of ENG 100 or 160
Survey of the global environment. Global patterns and processes of climatic, geomorphic, vegetation, animal and soil systems are studied. Major environmental problems and issues are examined in light of the concepts covered in the course. Emphasis will be placed on relating subject matter to Hawai'i and the Pacific.
Upon successful completion of this course, the student should be able to:
... Identify the underlying processes affecting the earth's climate, landforms, soils and distribution of plants and animals. Demonstrate knowledge of and ability to use scientific systems of measurement to describe natural phenomena.
... Demonstrate knowledge of and ability to apply elementary geographic theory and scientific methodology to the study of the global environment.
... Assess the impact of human societies and technology on the environment.
... Interpret and use a variety of topographic and biophysical maps.
... Critically analyze problems within the framework of the course using appropriate geographic methods and tools (including the computer) and communicate this knowledge in written form.
... Demonstrate knowledge of major world regions, states and cultural/physical features.

101L Man's Natural Environment Lab (1) NS3
3 hours lab per week
Prerequisites: GEOG 101 may be concurrent.
Recommended Preparation: Qualification for or completion of ENG 100 or 160
Analysis of the natural environment through the use of maps, air photos, field and laboratory observation and experimentation. Emphasis on Hawai'i and on human modification of the environment. Upon successful completion of this course, the student should be able to:
.. Use the metric system, scientific notation and create/interpret graphs.
. Define a problem for study, gather and record data, analyze the data, arrive at appropriate conclusions and report the findings in written and quantitative form.
.. Use a variety of geographic and environmental measuring tools in the gathering of environmental data. These include cartographic, meterologic and geologic instrumentation.
.. Utilize a computer to generate graphs for data analysis and reports.

102 World Regional Geography (3) SS
3 hours lecture per week
Recommended Preparation: Qualification for or completion of ENG 100 or 160
Survey of the world's major cultural regions. These regions will be examined in relation to various geographic aspects of contemporary economic, social and political conditions.
Upon successful completion of this course, the student should be able to:

Demonstrate an understanding of historical, social and environmental processes that have shaped the world's major cultural regions.
.. Compare and contrast human societies that have evolved under differing historical, cultural and environmental forces.
. . Demonstrate knowledge of and ability to apply elementary geographic theory and scientific methodology to the study of the world's regions.

## 151 Geography and Contemporary Society (3) SS

3 hours lecture per week
Recommended Preparation: Qualification for or completion of ENG 100 or 160
Global survey of economic activity in human societies, from hunting and gathering to the modern industrial state. These activities will be examined in relation to emerging population, resource, environmental, social and political problems in the world. Emphasis will be placed on Asia/Pacific/the Third World as well as Western economies.
Upon successful completion of this course, the student should be able to:
... Describe the types of economic activities in the world and identify the relevant social, cultural, political and environmental problems associated with each.
... Compare and contrast economic activities that have evolved under differing historical, cultural and environmental forces.
... Demonstrate knowledge of and ability to apply elementary geographic theory and scientific methodology to the study of
human economic activity.
. . . Explain the historical evolution of the world economic system.
. . . Demonstrate knowledge of major world regions, states and cultural/physical features.
... Critically analyze problems within the framework of the course using appropriate geographic methods and tools (including the computer) and communicate this knowledge in written form.

# GEOLOGY \& GEOPHYSICS (GG) 



101 L Introduction to Physical Geology Laboratory (1) NS2 3 hours lab per week
Recommended Preparation: Credit or registration in GC 200
Study of rocks and minerals, interpretation of topographic and geologic maps and exercises in the basic procedures of geologic investigations.
Upon successful completion of the course, the student should be able to:
... Demonstrate an understanding of the basic principles of geology.
. . . Identify the major rock and ore-forming minerals.
... Classify the common igneous, metamorphic and sedimentary rocks.
. . Use lopographic and geologic maps to study landforms, structure and geologic history of an area.
... Identify landforms and structures produced by various geologic processes.
. . Do some of the mathematical calculations used in the subdisciplines of geology such as geomorphology, geophysics, sedimentology and geochemistry.

## 200 Geology of the Hawaiian Islands (3) NS2

3 hours lecture per week
Recommended Preparation: Completion of ENG 22V or placement in ENG 100 or 160
This course provides a survey of Hawaiian geologic processes, volcanoes, rocks and minerals, landforms, groundwater and engineering problems. Field trips will be taken.
Upon successful completion of the course, the student should be able to:
... Demonstrate an understanding of earth science principles, including aspects of physics, chemistry and biology that are basic to man's current understanding of the earth.
... Discuss the earth's physical processes, particularly those that bear on the geology of the Hawaiian Islands and other Pacific islands.
... Recognize structures and products of volcanoes and other igneous phenomena.
... Recognize and explain the existence of products of marine and terrestrial sedimentation in Hawai'i.
... Recognize Hawaiian landforms produced by various weathering and erosion processes.
... Discuss man's association with the geologic environment, his vulnerability to geologic hazards, his dependency on natural resources such as groundwater and the environmental effects of his activities.
Discuss the important aspects of the regional geology of Hawai'i.


50 Basic Conversational Hawaiian (3)
3 hours lecture per week
Focus on basic Hawaiian conversational patterns for the visitor industry and an enrichment in knowing and understanding Hawai'i by way of the language. Familiar place names of Hawai'i based on myths, legends and historical accounts will be introduced.
Upon successful completion of this course, the student should be able to:
... Recognize and reproduce sounds of the Hawaiian alphabet correctly.
. . . Recognize Hawaiian words and phrases in daily use.
... Speak and understand conversational, everyday Hawaiian with the proper intonation and inflection.
... Pronounce correctly names of people and places in Hawai'i and know their meanings.
... Explain thebackground of placenames in Honolulu and Hawai'i.
... Understand the meanings of traditional Hawaiian songs.

## 101 Elementary Hawaiian I (4) FL

## 5 hours lecture per week

Study of basic structures of the Hawaiian language with emphasis on listening, speaking, reading and writing skills.
Upon successful completion of this course, the student should be able to:
. . . Understand conversational Hawaiian spoken at normal conversational speed on subject matters covered in class.
. . Recognize about 500 Hawaiian words and correctly use them.
... Speak Hawaiian with the proper inflection, intonation and rhythm.
... Ask and respond to basic questions.
... Exchange about 30 greeting expressions; introduce each other.
... Understand and use loan words in Hawaiian.
. . . Pronounce correctly names of people and places and know their meanings.
... Understand the use of pronouns, adjectives, possessives and basic sentence structures.
. . . Read short passages with comprehension, proper pronunciation and inflection.
... Write short dictations with 100 percent accuracy.

## 102 Elementary Hawaiian II (4) FL

5 hours lecture per week
Prerequisile. HAW 101 or equivalent
Basic structures of the Hawaiian language with emphasis on listening, speaking, reading and writing.
Upon successful completion of this course, the student should be able to:
. . . Do all the same skills as HAW 101 but with a deeper understanding and appreciation.
. Converse in Hawaiian with a vocabulary of 900 words.
... Discuss topics and situations involving telephone numbers, addresses, the classroom, possession of property, colors and health.
... Explain their family.
... Write an original short story in Hawaiian.

## 201 Intermediate Hawaiian I (4) FL

3 hours lecture, 2 hours lab per week
Prerequisite: HAW 102 or appropriate score on language placement exam.
Continuation of HAW 101, 102. Refinement of basic language skills through vocabulary development, communicative practice, articulated language lab exercises and review of grammatical structures. Confidence and fluency in oral expression will be developed. Course will include readings on Hawaiian culture, pre-history and postcontact Hawai'i.
Upon successful completion of this course, the student should be able to:
... Read selected short stories and articles about Hawaiian history, culture and traditions, using a vocabulary of about 4,000 words.
. . . Write one page short stories and brief responses in exercises, demonstrating mastery of pronoun forms, possessives, active and passive voices and verb tenses using positive and negative forms.
... Discuss non-technical subjects using appropriate grammar and vocabulary, demonstrating adequate mastery of pronoun forms, possessives, active and passive voices and verb tenses using positive and negative forms.
... Understand everyday conversation and colloquial expressions with acceptable voice inflection.
... Appreciate the historical impact of the Hawaiian people, language, customs and traditions being made today.

## 202 Intermediate Hawaiian II (4) FL

## 3 hours lecture, 2 hours lab per week

Prerequisite: HAW 201 or appropriate score on language placement exam.
Continuation of HAW 201. Refinement of basic language skills. Further vocabulary development and increased control over use of grammatical forms and idiomatic expressions in written and oral expression. Course will include readings on Hawaiian culture and tradition, pre-history and post-contact Hawai'i.
Upon successful completion of this course, the student should be able to:
. . . Read selected short stories and articles about Hawaiian history, culture and traditions, using a vocabulary of about 4,000 words.
. . . Write one to two page compositions, demonstrating adequate mastery of pronoun forms, possessives, active and passive voices and verb tenses using positive and negative forms.
... Discuss non-technical subjects using appropriate grammar and vocabulary, demonstrating adequate mastery of pronoun forms, possessives, active and passive voices and verb tenses using positive and negative forms.
... Understand everyday conversation and colloquial expressions with acceptable voice inflection.

Appreciate the historical impact of the Hawaiian people, language, customs and traditions being made today.

## HAWAIIAN STUDIES (HAWST)



## 107 Hawai'i: Center of the Pacific

3 hours lecture/lab per week
Recommended Preparation: Eng 100 or 160
Survey of the Pacific Islands of Melanesia, Micronesia and Polynesia; their various origins, geography, languages, religions, colonial histories and modern development, seen through the cultural lens of the Hawaiian people.
Upon successful completion of Hawaiian Studies 107, the student should be able to:
... Demonstrate a knowledge of Pacific geography and the origins and patterns of migration and settlement of Melanesia, Micronesia and Polynesia.
... Understand the similarities and differences between the cultures and histories of Pacific Islanders through the study of their languages, religious traditions, artistic accomplishments, material culture and political and economic development.
... Demonstrate an understanding of islanders' physical environments and its role in shaping culture, as well as the effects of increasingly altered environments in the modern period.
... Explore the importance of land to island civilizations and to trace the cultural importance of land historically; from ancient chiefdoms, through European colonization and contemporary problems arising through the loss of lands.
... Show knowledge of the comparative effects of colonization on Pacific Islanders and the similarities and differences of nationalist movements throughout the Pacific.
. . . Demonstrate a familiarity with a variety of texts that make up the knowledge embodied by Pacific islanders, including oral traditions, primary and secondary literature, as well as visual and tactile expressions of their cultures.


Photo by Bryan Sekiguchi

## HEALTH (HLTH)

## 29 First aid and CPR for Non-Medical Personnel (1)

4 hours lecture/lab for 6 weeks
A course in basic first aid and cardiopulmonary resuscitation to prepare student to give care in common emergency situations.
Upon satisfactory completion of this course, the student should be able to:
. . . Identify when, where and how to get assistance in an emergency.
. . . Provide standard first aid care to those who need it.
... Perform infant and one-rescuer cardiopulmonary resuscitation.
. . . Identify risk faclors for cardiovascular disease.

## 110 Medical Terminology (2)

2 hours lectureddiscussion per week
Prerequisite: BIOL 22 or BIOL 130
Medical terminology including pronunciation, spelling, definition, all systems of the body and supplementary terms applicable to specialty areas of medicine and selected paramedical fields. Emphasis on increasing professional vocabulary.
Upon successful completion of this course, the student should be able to:
... Recognize medical words and commonly used abbreviations and symbols.
... Spell, define and pronounce medical words correctly.
. . . Identify prefixes, suffixes and roots of words, based on written tests with a minimum of 70 percent proficiency.
. . . Recognize medical and drug terms, specialized terminology and commonly used abbreviations and symbols.
... Gain skills in proper pronunciation and correct spelling of medical and related terms.
... Gain skills in identifying and differentiating spoken medical terms.

## 120 Introduction to the Health Professions (1) <br> 1 lecture hour per week

An introduction to concepts of health and disease, health care systems, organizational structure and function of the hospital, health insurance, patient rights, ethics, medical-legal considerations, federal and state laws significant to the health professions and the health care team in individualized patient care.
Upon successful completion of this course, the student should be able to:
. . State a description of concepts of health and disease as viewed by current American society.
... Describe the organizational structure of the hospital and its function in society.
... State a brief description of job tasks, educational systems, requirements for licensure, employment opportunities, career opportunities and any special aptitudes necessary for working in health careers described in the class.
. . State the importance of having specific knowledge about professionalism, death, patient rights, ethics, health insurance and other medical-legal considerations.
... State a realistic description of the health care team in individualized patient care.

## 125 Survey of Medical Terminology (1)

1 hour of lecture per week
Prerequisite: BIOL 130 can be concurrent or equivalent
Not open to those with credit or concurrent registration in HLTH 21C
A survey of medical terminology to include: prefixes, suffixes and word roots; pronunciation, spelling and definition of selected medical words dealing with all human body systems; commonly used abbreviations; and use of the medical dictionary.
Upon successful completion of this course, the student should be able to:
... Define and give examples of the following word forms used in word building and word analysis:

- prefix
- suffix
- word root
- combining forms
... Correctly pronounce, spell and use the specified word forms given in the above objective.
... Use a medical dictionary.
... Correctly use plural endings for medical terms.
... Correctly pronounce, spell and define selected medical terms dealing with:
- anatomical planes and regions
- body directions
- integumentary system
- respiratory system
- urinary system
- reproductive system
- cardiopulmonary and lymphatic systems
- digestive system
- musculoskeletal system
- nervous system
- endocrine system
. . . Correctly use and define commonly used medical abbreviations.


## 130 First Aid and CPR for Medical Personnel (1)

## 4 hours lecturellab for 8 weeks

Upon successful completion of this course, the student should be able to:
. . . Identify when, where and how to get assistance in an emergency.
. . . Provide standard first aid care to those who need it.
. . . Perform infant, one-rescuer and two-rescuer cardiopulmonary resuscitation.
... Correctly use a resuscitation mask.
... Perform alternate methods of opening the airway.
150 Introduction to Study of Diseases (1)
1 hour lecture/discussion for 7 weeks
Prerequisite: HLTH 110 or BIOL 22 or BIOL 130, or consent of instructor.
Basic concepts and characteristics of disease processes.

Upon completion of this course, the student should be able to:
. . . Identify basic concepts, principles and characteristics of disease processes.
Recognize and apply terminology pertaining to injuries and discase processes.

152 Study of Diseases (2)
4 hours lecture/discussion per woek for 8 weeks
Prerequisite: HLTH 150, or consent of instructor
Etiology, methods of controlling spread and development of selected diseases.
Upon successful completion of this course, the student should beable to:

Identify the etiology of selected diseases.
Identify methods of external control and the treatment of known diseases.

## 195 Personal and Community Health (3)

3 hours lecture per week
Prerequisite: College level reading skills, Grade Equivalent of 11.5 This course presents scientific and social health information from individual to world health with emphasis on personal responsibility for one's own health.
Upon successful completion of this course, the student should be able to:
... State definitions of health and disease including the World Health Organization's terminology. .
. . . Describe to the instructor's satisfaction the roles of knowledge and beliefs involved in processes of change in health behavior.
... Recognize and discuss world, national and Hawai‘i goals for health.
. . Identify major anatomical features and state the primary functions of the human nervous, digestive, urogenital, cardiopulmonary and musculoskeletal systems.
. . . Discuss to the instructor's satisfaction different levels of emotional problems, stress reactions and mental disorders and appropriate adjustments or treatment.
. . . Describe, according to the text, the prevalence of use, abuse, discontinuation of use, mental/physical effects, cost benefit and current issues regarding drugs, including caffeine, tobacco, alcohol and psychoactive substances.
. . . Write a description of important factors and issues in sex roles, sexual response, attitudes about sex, sexual expression and sexual dysfunction.
... Analyze critically the facts, attitudes and issues surrounding pregnancy, birth, contraception and abortion.
... Discuss to the instructor's satisfaction marriage, divorce, parenting and family life in relation to issues involved and general factors affecting success and failure.
... Write a brief explanation of nutrition, basic components of food, balanced diet and food labeling.
... State the various roles of diet and exercise in achieving body weight control and physical fitness.
. List the etiology, pathogenesis, morbidity, mortality, treatment and prevention of cardiovascular disease, cancer, chronic pulmonary disease and sexually transmitted disease in the U.S.A.
... Explain the major barriers to "Health For All By The Year 2000."
. . . Describe how to improve self care through more knowledgeable home health care and more informed interaction with health care professionals.
.. Write a description of health factors affecting human development from the beginning of adulthood to death.
... Discuss specifics of environmental health issues from personal safety and community health to world environmental health.

## 270 Aging and Rehabilitation (I)

1 hour lecture per week
Prerequisite: Creditconcurrent ZOOL 141 or BIOL 130 or equivalent; or consent of instructor
An overview of age-related topics for health care providers Upon successful completion of this course, the student should be able to:
. . . Identify the normal developmental changes of aging.
... Discuss introductory concepts of geriatrics and gerontology.
... Identify pathological changes associated with aging.
... Discuss issues in health care and rehabilitation of the elderly.
... Identify and discuss principles of rehabilitation strategies used to resolve geriatric health problems.

280 Disease and Disability for Rehabilitation (2)
2 hours lecture per week
Prerequisites: BIOL 130, 131or ZOOL 141,142
Human anatomy and physiology including the musculoskeletal and circulatory systems
Upon successful completion of this course, the sludent should be able to:
... Identify the general causes of disease.
. . . Explain the responses of the cell to stress.
. . . Discuss therheumatic diseases discussed in class in terms of their etiology, symptoms and medical management.
... Discuss the mechanism of injury, clinical course and medical management for commonly seen injuries to the skeletal system as discussed in class.
... Define Sondylosis, Spondylolisthesis, Osteophytes, and Chrondromalacia Patellae.
... Discuss in terms of etiology, symptoms and medical management:

- Avascular necrosis
- Bursitis
- Dislocations
- Epicondylitis
- Fibrositis
- Osteomyletis
- Sprains
- Synovitis
- Tendonitis
... Explain the possible pathologies of the intervertebral disc and the cervical and lumbar spine.
... Define scoliosis and describe its medical management.
... Discuss the group of diseases called polymyositis and describe its etiology, clinical course and medical management.
... Differentiate between muscular atrophy and dystrophy and describe the common types of atrophic and dystrophic diseases of the muscle.
. . . Discuss the disease classified as myotonias by describing its etiology and clinical manifestations.
... Discuss the classification and healing process of a muscle strain.
. . . Describe the common pathologies of the blood vessels that were discussed in class and their medical management.
... Discuss the structure and function of the respiratory system.
... List and explain ventilation pathoiogies of a neurological origin.
... Explain common restrictive respiratory disorders that were discussed in class.
. . . Discuss the etiology and medical management of the obstructive respiratory disorders discussed in class.
. . . Trace the development of respiratory failure.
... List and define four pulomonary volumes and four pulmonary capacities and describe their significance.


## 290 Kinesiology (2)

2 hours lecture per week
Prerequisite: BIOL 130 131; ZOOL 141, 142
Corequisite: HLTH 290L
Recommended Preparation: PHYS 100;100L
Principles of kinesiology. Included will be body mechanics, alignment, skeletal and muscular system for head, neck, trunk, upper and lower extremities, with exposure to biomechanical principles and nervous system structure and function as they relate to kinesiology principles for the PTA.
Upon successful completion of this course, the student should be able to:
... Classify the joints of the body according to structure.
... Name and define the orientation planes of the body and the axes of motion.
... Describe the structure and properties of skeletal muscle
... Define the following terms:

- A Band
- I Band
- Slow Twitch
- Fast Twitch
- Fasiculus
- Myosin
- Muscle Fiber
- Thin and Thick Filaments
... Describe and diagram the events in the motor unit that lead to muscular contraction including: conduction of an impulse along the axon action at the myoneural junction reaction of the muscle fiber.
... Describe the means by which muscle attaches to bone
. . . Classify muscles according to fiber arrangement as longitudinal, quadrilateral, triangular, fusiform, penniform, bipenniform, multipenniform, and relate it to its function.
... Recall the insertions, actions and level class for all the skeletal muscles in the human body.
... Define and explain what Kinesiology is and why it is an important area of study for the PTA.
... Discuss essential concepts in the study of kinesiology/ pathokinesiology.
. . . Explain the concept of body mechanics and body alignment, the principles involved and the purpose for evaluation.
... Name the factors contributing to joint ROM and stability.
. Classify the joints of the body according to structure and explain the relationship between structure and capacity for movement.
Define types of muscle contraction as:
- Concentric
- Eccentric
- Isometric
- Isotonic
- Isokinetic
- Static
... Define the roles that a muscle can play during movement including:
- Agonist
- Antagonist
- Prime mover
- Stabilizer
- Synergist
. . . Define and diagram the functioning of the neuromuscular system during reflex movement
. . Define movements in the extremities and trunk in terms of joint structure, axes of motion and muscle contraction and interactions.
... Identify common substitution which may occur during activity or exercise.
... Describe the following mechanical principies in terms of human movement:
- Angle of Pull
- Force
- Equilibrium
- Levers
- Newton's Law


## 2901 Kinesiology Lab (1)

3 hours lab per week
Prerequisite: BIOL 130 131; ZOOL 141, 142
Corequisile: HLTH 290
Recommended Preparation: PHYS 100, 100L
Principles of kinesiology. Included will be body mechanics, alignment, skeletal and muscular system for head, neck, trunk, upper and lower extremities, with exposure to biomechanical principles and nervous system structure and function as they relate to kinesiology principles for the P.T.A.
Upon successful completion of this course, the student should be able to:
... Classify the joints of the body according to structure.
... Name and define the orientation planes of the body and the axes of motion.
... Describe the structure and properties of skeletal muscle.
. . . Describe the means by which muscle attaches to bone.
... Classify muscles according to fiber arrangement and relate it to its function.
... Recall the insertions, actions and level class for all the skeletal muscles in the body.
... Demonstrate concepts of body mechanics and body alignment, the principles involved and the purpose for evaluation.
... Classify the joints of the body according to structure and explain the relationship between structure and capacity for movement.
... Identify the factors contributing to joint ROM and stability.
... Define types of muscle contraction
... Define the roles that a muscle can play during movement
... Define movements in the extremities and trunk in terms of joint structure, axes of motion and muscle contraction and interactions.
. . . Identify common substitution which may occur during activity or exercise.
... Describe mechanical principles in terms of human movement.


Medical Clearance Requirement: To register for the following courses, a student is required to present a medical clearance issued by their own physician when instruction begins.

## 101 Physical Fitness (1)

2 hours lab per week
Conditioning exercises and activities to develop and maintain physical efficiency.
Upon successful completion of this course, the student should be able to:
... Know the physiological processes of fitness development.
... Improve their level of physical fitness including: strength, endurance, flexibility, weight control and relaxation.
... Make choices toward the development and maintenance of a healthful exercise program to meet present and future needs.

## 130 Tennis: Beginning (1)

2 hours lab per week
The student must supply their own tennis racquet.
Upon successful completion of this course, the student should be able to:
... Display an appreciation of the game by showing a knowledge of object of the game, history of the game, equipment and facilities and customs and courtesies of the game.
... Demonstrate a knowledge of the fundamentals of the game by showing: grip, stance, footwork, weight transfer and strokes, forehand, backhand serve, volley, lob and overhead.
... Show a knowledge of the rules and scoring which includes sequence in scoring, rules of the game and officiating.
... Show a knowledge of strategy and court position by demonstrating singles strategy and positioning and doubles strategy and positioning.

## 131 Tennis: Intermediate (1)

2 hours lab per week
Prerequisite: Beginning tennis or its equivalent or consent of instructor
Corrective work in three basic strokes and in net play; the lob, drop shot, overhead smash and half-volley; applying spin in basic strokes and basic strategy in singles and doubles.
Upon successful completion of this course, the student should be able to:
... Demonstrate a developed proficiency in the competencies of HPER 130.
... Demonstrate an appreciation of the game by showing a knowledge of the background and development of the game, equipment, etiquette and gamesmanship and the rules of the game.
... Demonstrate a knowledge of the singles and doubles game including court positioning, strategy, conditioning and temperament and theory of team play.
... Show a knowledge of the strokes of the game by demonstrating: forchand (slice, topspin, flat), backhand (slice, topspin, flat), service (slice, topspin, flat), volley, half-volley and approach shots, lob (offensive and defensive) and overhead smash.

## 135 Volleyball (1)

## 2 hours lab per week

Designed to develop and/or improve the students basic skills in volleyball.
Upon successful completion of this course, the student should be able to:
... Demonstrate the basic skills of volleyball such as the serve, bump, set, pass, spike and block.
... Apply and/or describe the rules of volleyball and court offensive and defensive strategy.

| HISTORY (HIST) |  |
| :---: | :---: |

151 World Civilization I (3) WC
152 World Civilizations II (3) WC
3 hours lecture per week
Recommended preparation: Qualification for or completion of ENG 100 or 160.
Note: It is recommended but not required that HIST 151 and HIST 152 be taken in sequence.
An interpretive survey of the development of civilizations. HIST 151: from prehistoric origins to 16 th century; HIST 152: from 16 th century to the present.
Upon successful completion of HIST 151 or HIST 152, the student should be able to:
... Distinguish the characteristics of the world's major civilizations in their geographic settings.
... Trace the development of traditional civilizations and recognize their enduring influences.
... Describe global processes (e.g. agricultural and urban revolutions, emergence and growth of civilization, human migration, disease, ecological forces, imperialism, neo-imperialism, decolonization, industrialization, etc.).
. . . Describe the interactive roles which social, religious, political, economic, scientific and technological forces have played among the civilizations of the world.
... Manifest a sense of historical time.
... Evaluate such historical theories as the "great person" in history or deterministic interpretations.
... Discuss the historical dimensions of contemporary world affairs and issues.
. . . Compare and contrast responses of the world's peoples as a result of intercultural contacts and the diffusion of ideas, institutions and inventions.
. . . Draw upon their knowledge of the varieties of human experiences, and their sympathetic understanding of cultures other than their own, to define their roles as citizens of the contemporary werld.
... Express informed judgments on the behavior of peoples and their institutions.
Analyze cause and effect relationships in history.
. . . Discuss the major attempts to explore the ethical and fundamental questions of life posed throughout history.

## 224 History of Hawai'i (3) AH2

## 3 hours lecture per week

Recommended Preparation: Qualification for or completion of ENG 100 or 160.
The economic, political and social history of Hawai'i from PreEuropean era to the present, focusing on ancient Hawaiian civilizations, the period of the monarchy and the impact of the outside world and Hawai'i under American influence.
Upon successful completion of this course, the student should be able to:
... Discuss the origin of the early Hawaiians and describe life in early Hawai'i in major areas.
. . . Discuss the impact of foreigners on life in Hawai'i.
... Discuss American influence in Hawai'i and the Americanization of Hawai'i.
... Discuss the problems/issues in Hawai'i.
. . Show an understanding of what happens when two different civilizations collide and the evolutionary changes which may result.

241 Civilizations of Asia (3-3) AH2
Fall
242 Civilazations of Asia (3-3) AH2
Spring

## 3 hours lecture per week

Recommended Preparation: Qualification for or completion of ENG 100 or 160
Notes: HIST 241 and 242 need not be taken in sequence.
This course is cross-listed at UH-Mānoa as Asian Studies 241/242.
A two-semester survey of South, Southeast and East Asian civiliza-
tions. Emphasis on the rise and development of distinctive cultures and on the interaction among them. HIST 241 is concerned with traditional societies prior to Western incursion. HIST 242 probes the experience of those societies in the modern period.
Upon successful completion of this course, the student should be able to:
... Demonstrate an understanding of the great cultural traditions of Asian civilizations, their philosophies, their institutions and their creative genius.
... Demonstrate acquired information about the environments and experiences of Asian peoples enabling the student to analyze, compare and interpret major themes that relate to Asia in the World today.
... Show an awareness and appreciation of the continuity and persistence of cultural traditions in the civilizations of Asia.
. . . Demonstrate through personal research, questioning and discussion knowledge of areas of interest.
... Show an appreciation for the people of Asia by having attempted to view the hopes, aspirations and perceptions of the world through Asian eyes.

## 252 African History (3) AH2

3 hours lecture per week
Prerequisite: HIST 152
Recommended Preparation: Qualification for or completion of ENG 100 or 160
A survey of the history of Africa with emphasis on sub-saharan Africa from the 18 th century to the present.
Upon successful completion of this course, the student should be able to:
... Identify and give the significance of pertinent names, places and events covered in lectures and in texts.
... Locate place names on a map of Africa and be aware of the general configuration of the continent of Africa and its relative position on the globe.
... Demonstrate knowledge of political, social, cultural, economic and other contributions of major African civilizations.
... Compare, contrast and identify the importance of different political, social and religious philosophies studied in the course. Analyze contemporary concerns, problems and views held by Africans about their countries.
... Develop lucid essays analyzing specific material from the course.
281 Introduction to American History I (3) AH2 Fall
282 Introduction to American History II (3) AH2 Spring 3 hours lecture per woek
Recommended Preparation: Qualification for or completion of ENG 100 or 160
Note: HIST 281 and 282 need not be taken in sequence.
An interpretive survey of United States history. HIST 281: from European settlement to 1865; HIST 282: from 1865 to the present. Upon successful completion of HIST 281 and HIST 282, the student should be able to:
... Explain the origins and development of American political, economic, social and cultural institutions.
... Understand and evaluate contemporary events and problems in the United States through the awareness of all that which leads to the present.
... Develop an appreciation of what it means to be a citizen of the United States, of the privileges and coincident duties and responsibilities that accompany such citizenship.
... Understand the role of government in the life of the people at different periods of their history.
... Identify individuals significant in the development of the American government and the major movements inspired by these persons.
... Show ability for intelligent analysis of information through writing and/or questioning and discussion.

## 288 Survey of Pacific Islands History (3) AH2

3 hours lecture per week
Recommended Preparation: completion of ENG 100 or 160 and completion of HIST 151 or 152.

Development from first settlement to modern times: early settlement, culture contact, colonization, decolonization and contemporary problems.
Upon successful completion of this course, the student should be able to:
... Demonstrate an understanding of Pacific Islands geography and of the impact of the environment upon history.
... Explain themes in the settlement of the Pacific Islands and in the
ancient history of Polynesia, Melanesia and Micronesia.
... Demonstrate knowledge about culture contact among native island peoples and with outsiders.
... Explore cultural change and cultural persistence in various island communities.
... Show knowledge of colonization and decolonization in several Pacific Islands.
... Demonstrate working knowledge of contemporary problems in the Pacific.
... Discuss orally and in writing themes and problems in Pacific Islands history.


## Honors A - Sections

3Credit hours will be identical to the regular courses
Prerequisite: Admission to th Honors Program
Honors A - Sections are required general education/area requirement courses that have been designated for high achieving students. A Section courses provide qualified Honor students an opportunity to study in a small, intensive and highly interactive learning environment. Consult semester schedule of courses for current A - Section offerings.
The A-Section course description is identical to its respective general eduation/area requirement course. However, the following competencies are added to the existing general education/area requirement course competencies.


Courtesy of Louise Yamamoto

Upon successful completion of this course, the student should be able to:
. . . Demonstrate ability to think and read critically.
. . . Develop communication abilities in both individual and group situations.
... Exhibit the ability to learn in both independent and cooperative activities.
... Exhibit decision making and problem solving skills and abilities.
... Examine personal values and value system of others.
. . . Develop skills for lifelong learning.


## 21 Touch the Earth: An Integrated Approach to Nature, Humanity and Science (3) <br> 3 hours lecture per week

Explores the ways in which humans have related to nature and the effects which technology has had on these links. Complements SCI 21 and SSCI 21.
Upon successful completion of this course, the student should be able to:

Understand the state of the pre-industrial world.
... Demonstrate basic knowledge of the impact of technology on the earth, society and human values.
... Show awareness of a variety of approaches to technological problems.
. . . Critically analyze and formulate positions on selected issues.
. . . Have enhanced awareness of the esthetic qualities of both the natural and human world.
. . . Be aware of the philosophical and religious implications of the human relationship to the natural world.
. . . Understand the moral problems that are brought on by technology.

## 100 Themes in the Humanities (3) AH1

3 hours lecture per week
Transfers to UH Mänoa as an elective only.
A focus on a core of Humanities disciplines in World Civilizations, history, philosophy, literature, religion and the arts which will examine the place of man in the world and the relevance to man's search for identity.
Upon successful completion of this course, the student should be able to:
... Recognize the humanities as a group and as separate disciplines.
... Listen to and communicate regarding humanities questions.
. . . Demonstrate possible means for achieving a sense of personal meaning and identity.
. . Show ability to think more critically about questions of value.
... Articulate ideas, concepts and personal perspectives in writing.

150 Survey of the Arts and Their Values (3) AH1
3 hours lecture per week
Attendance at cultural events outside of class time is required. Examines how human beings express their values, beliefs and thoughts about the world through different art forms.
Upon successful completion of this course, the student should be able to:
... Show an increased understanding of society through an examination of the arts.
Show an ability to perceive works of art with increased understanding and awareness of their elements.
Show an increased ability to analyze the social content and personal values found in works of art.
... Demonstrate a developed ability to enjoy a work of art.

> INFORMATION \& COMPUTER SCIENCES (ICS)

100 Computing Literacy and Applications (3)
3 hours lecture per week
Prerequisite: ENG 22 V and BUS 55 MATH 24, or MATH 50, or Equivalent Test Results.
Comment: Hands-on. General introduction to computers.
This course is a non-technical introduction to computers and their uses in society, in business, and at home. This course teaches the knowledge essential to a computer literate functioning member of society. Students will increase their understanding of what computers do, how they do it, and how they are changing the world in which we live. The course includes hands-on experience with word processing, spreadsheet, and database software. This course satisfies the computing literacy requirement.
Upon successful completion of this course, the student should be able to:
. . . Discuss the evolution of computers in our society.
... Understand the computer as a tool for expanding the capabilities of the human mind.
... Understand the impact of computers on how people live and work, e.g. privacy issues, pollution of information and the effect of technology on the world of finance.
... Present a balanced discussion of the positive and negative aspects of the Information Age.
... Distinguish between what computers can do well (e.g. process data quickly) and what they cannot do at all (e.g. create ideas).
. . . Compare and contrast human and artificial intelligence (Al) and discuss the implications associated with research in Al for the future of society.
. . Identify basic hardware components of computer systems.
. . . Identify and describe a variety of widely-used application programs.
... Demonstrate an understanding of the programming process.
. . . Produce a word-processing document.
. . . Solve a problem using a spreadsheet program.
. . Utilize a database management program to design a database and generate reports.

## 111 Introduction to Computer Science I (3) NS3

3 hours lecture per week
Prerequisite: MATH 27, or Equivalent Test Results
This is the introductory course for students entering computer science. Algorithm development and structured programming techniques are emphasized. The programs are implemented in a structured language. The course meets the Association for Computing Machinery CS1 course standards.
Upon successful completion of this course, the student should be able to:
. . Explain the steps involved in the programming process.
... Solve simple problems and express those solutions as algorithms.
. . . Use the fundamental techniques of selection, looping, assignment, input and output in describing the steps the computer is to take to carry out a problem solution.
. . . Write algorithms and code in a top-down manner.
... Work with arrays in searching and sorting applications.
. . . Decide correctly what parameters are needed when writing a subroutine as well as whether they should be passed by reference or by value.
... Write, test and debug elementary programs.
. . Write procedures and functions.
. . Work with files and strings.
... Write very simple recursive algorithms and programs.

## 115 Microcomputer Applications (3)

## 3 hours lecture per week

Prerequisite: ENG 22 and MATH 27, or Equivalent Test Results Comment: Hands on. Open to students anticipating transfer to UH-Mānoa.
This course examines the utilization of major application packages as tools in business problem-solving. The following applications will be covered: a microcomputer operating system, word processing, spreadsheet, graphics and database management systems.
Upon successful completion of this course, the student should be able to:
... Solve business problems using application programs.
... Use operating system file handling commands.
. . . Create a batch file.
... Install application programs.
... Process mailing lists.
... Use spreadsheets to present information and compute the graph data.
.. . Create, sort and update database files and produce reports.

## 211 Introduction to Computer Science II (3) <br> 3 hours lecture per week <br> Prerequisite: ICS 111

This course completes the coverage of material that is considered fundamental to a beginning student in computer science. The major areas emphasized are advanced features of programming languages, program correctness, algorithms for searching and sorting, data structures, including lists and binary trees and introduction to the theory of computation. The programs are implemented in a structured language. The course meets the Association for Computing Machinery CS 2 course standards.

Upon successful completion of this course, the student should be able to:
. . . Use structured, top-down strategies for developing large effective programs by applying software engineering principles of design, coding and testing.
... Use pointers and records to create and work with essential data structures such as linked lists, stacks, queues and binary trees.
. . . Use complex recursive definitions and algorithms.
. . . Utilize a systematic approach to analyze complex algorithms in terms of space-time tradeoff́s and to determine order of magnitude.
... Prove the correctness of a simple algorithm.
... Discuss future topic in the study of computer science.

## 241 Discrete Mathematics for Computer Science (3)

3 hours lecture per week
Prerequisite: ICS 111 and MATH 205
Elements of discrete mathematics, including propositional logic and methods of proof, sets and relations, combinatorics, graphs, Boolean algebras and discrete probability. Selected algorithms will be implemented in a structured programming language. Intended for computer science majors.
Upon successful completion of this course, the student should be able to:
... Solve problems in propositional logic, work with truth tables and use Venn diagrams.
... Solve problems in elementary set theory.
... Prove theorems using mathematical induction.
... Use the formulas for permutations, combinations and binomial coefficients.
... Prove recursive relations.
... Use graphs, paths, cycles and trees. Solve problems in elementary probability.


## 10 Personal Development (3)

3 hours lecture per week
Note to students: CrediuNo Credit grading only
Activity-oriented course which focuses on the development of selfconcept and improved interpersonal communication.
Upon successful completion of this course, the student should be able to:
... Recognize and express own feelings and understand the feelings of others through improved listening and communication skills.
... Analyze and learn techniques to deal with stressful situations related to feelings and behaviors.
... Understand the goal-setting process and apply the skills to setting long-term and short-term goals.
. . . Use time management techniques to act on decisions and goals.
. . . Comprehend values clarification techniques to help determine the content and importance of one's own values and how they affect career and life choices.
... Understand the range of occupational and educational opportunities available.
... Develop a knowledge of the Career/Life Planning process.
... Have an awareness of the importance of leisure time and life-long learning.

## 105 Career/Life Exploration and Planning (3)

## 3 hours lecture per week

Preparation for effective career and life decisions. Primarily for persons seeking direction for personal goals and career choices. Upon successful completion of this course, the student should beable to:
... Identify and prioritize own interests, skills, personality traits and values and understand how these relate to career choices.
... Demonstrate ability to use values clarification, decision-making and time management techniques in developing an individual career/life plan.
... Understand the changing roles of men and women in the work force.
... Understand federal laws and regulations concerning sex discrimination.
... Demonstrate awareness of non-traditional career opportunities available in Hawai'i.
... Identify and use standard career resource books.
. . . Determine appropriate educational opporlunities that are consistent with individual career/life plans.
... Understand the components of a systematic job search.
... Prepare a resumé and cover letter.
... Demonstrate knowledge of appropriate job interview techniques.
... Discuss employee responsibilities to employers.
... Define in class discussion and written examination the terms and concepts relevant to career/life exploration and planning.


Prior to registration, students who have taken Japanese in high school or elsewhere will be given a placement examination. Students who successfully pass the placement examination are qualified to apply for credit by examination.

## 50 Basic Japanese for Visitor Industry (3)

3 hours lecture per week
No placement test is required
Using the audio-lingual approach this course aims to give the student who plans to work in tourism a number of utility expressions in the Japanese language. It also provides an orientation to Japanese culture to aid in understanding the Japanese visitor to Hawai'i.
Upon successful completion of this course, the student should be able to:
... State orally everyday greetings, names of weeks, days and months.
... Demonstrate counting systems in numbers and in telling time.
... Give directions; answer and take simple messages on a telephone.
... Interact with hotel guests (help them check-in check-out, make wake-up calls, give luggage and room service).
... Interact with restaurant customers (take orders for meals, bill them).
... Interact with shop customers (buying and selling).
... Understand and practice basic non-verbal communication using one's head, eyes, hands and fingers.

100 Elementary Japanese, Special (3) FL
3 hours lecture, 3 hours independent practice in lab
Prerequisite: Placement by examination
Intensive elementary Japanese course covering the same material as
101 at a more rapid pace. Intended for students with some Japanese language background.
Upon successful completion of this course, the student should be able to:
... Master basic Japanese vocabulary and sentence patterns.
... Carry on limited conversations in daily situations using basic Japanese sentence patterns and vocabulary.
... Form simple sentences in Japanese using verb, adjective and noun predicates in past and non-past tenses.
... Use affirmative and negative sentences in Japanese.
... Count and tell time in Japanese.
... Use polite expressions in Japanese.
... Read and write in both Katakana and Hiragana.
... Become acquainted with aspects of the Japanese culture that relate to the lesson topics.

## 101 Elementary Japanese I (4) FL

5 hours lecture per week plus laboratory drill
A course designed for beginners of Japanese. Methodical instruction in understanding, writing and speaking Japanese primarily using aural-oral approach.
Upon successful completion of this course, the student should be able to:
... Read and write hiragana, katakana and romanized Japanese accurately.
... Understand the differences between English and Japanese sentence structure and grammar.
... Understand how verbs and adjectives conjugate.
... Understand formal and informal speech usage.
... Use most everyday greetings, common phrases and modes of introductions.
... Count to 100,000 and tell time.
... Understand and use 50 loan words derived from non-Japanese sources.
. . Shop and sell in Japanese.
... Write a diary and letter in hiragana.
... Understand basic Japanese customs and manners.

## 102 Elementary Japanese II (4) FL

5 hours lecture per week plus laboratory drill
Prerequisite: Satisfactory score on the language placement test or completion of JPNSE 101.
Continuation of JPNSE 101.
Upon successful completion of this course, the student should be able to:
... Read about 150 kanji and write about 125 kanji.
... Use formal and informal speech patterns and distinguish masculine/feminine speech.
... Write letters, essays and diaries using hiragana, katakana and kanji.
... Demonstrate increased vocabulary; increased proficiency in loan-word usage.
... Give or take orders as: restaurant waiter/waitress, customer, domestic worker.
... Act as hosthostess to Japanese-speaking visitors as well as act as a guest in a Japanese home.
... Understand family relations and use correct speech forms in addressing family members.
Understand and appreciate Japanese culture and language in depth.

## 121 Elementary Japanese Conversation I (3)

3 hours lecture per week
Spoken Japanese designed to develop proficiency in understanding and speaking skills. Emphasis on practical conversation ability. For non-majors.
Upon successful completion of this course, the student should be able to:
... Develop proficiency in understanding elementary Japanese.
... Ask simple questions, give short answers and say everyday greetings.
... Understand basic patterns and sentence structure; basic sounds.
... Develop basic speaking skills; use essential everyday vocabulary.
... Understand the different levels of speech: honorific, plain and humble.
... Understand the conjugation of over 40 verbs and 15 adjectives.
... Understand and use about 50 loan words.
... Understand the culture related to the language.
122 Elementary Sapanese Conversation II (3)
3 hours lecture per week
Prerequisite: JPNSE 121 or consent of instructor
Continuation of JPNSE 121.
Upon successful completion of this course, the sludent should be able to:
. . . Use formal and informal speech patterns; distinguish masculine/ feminine speech.
. . . Take telephone messages, make and receive telephone calls.
. . . Giveor takeorders as waiter/waitress-customer; domestic worker.
. . . Act as hos/hostess to Japanese-speaking visitors; act as a guest in a Japanese home.
... Use 30 additional verbs in their formal/informal form.
... Understand and use loan words more proficiently.
. . . Understand family relations and use correct speech in addressing family members.
... Understand and appreciate Japanese culture/language in more depth.

## 201 Intermediate Japanese I (4) FL

5 hours lecture per week plus laboratory drill
Prerequisite: Satisfactory score on the language placement lest or completion of JPNSE 102
The four skills listening, speaking, reading and writing are furthered and more complex sentences are practiced than in the first year level.

Emphasis on reading and writing in preparation for advanced reading.
Upon successful completion of this course, the student should be able to:
... Demonstrate increased ability to read/write kanji.
... Understand and use additional verbs, idiomatic expressions and loan words.
... Use additional everyday expressions, greetings.
... Ask/answer additional questions.
... Engage in dialogues involving a variety of situations such as barbershops, hotels and inns, theater, picnics and other outings. Write letters, essays and diaries more proficiently.
... Converse more proficiently on the telephone and other places.
... Have a deeper understanding and appreciation of the Japanese culture and language.

## 202 Intermediate Japanese II (4) FL

5 hours lecture per week plus laboratory drill
Prerequisite: Satisfactory score on the language placement lest or completion of JPNSE 201
Continuation of JPNSE 201. The aural-oral skills and the reading and writing skills are further developed.
Upon successful completion of this course, the student should be able to:
. . . Demonstrate increased understanding, usage, vocabulary, etc., beyond requirements of JPNSE 201.
... Engage in dialogues relating to renting, shopping, sightseeing, house repairs, personal history and recreation.
... Understand and use percentages and fractions in Japanese.
... Understand and use verb passive, causative and imperative forms.
... Have an increased understanding and appreciation of the lapanese culture and language.


150 The Press and Society (3) SS
3 hours lecture per week
The course is an informal appraisal of the news and opinion media newspapers, magazines, radio, television and advertising and their role as major institutions in America and Hawai'i. The course concentrates on current media analysis and appreciation and strives to make readers, listeners and viewers more aware of the media's potential and limitations.
Upon successful completion of this course, the student should be able to:
... Communicate an understanding of the role and effect of mass media on American society.
... Use analytical skills in critiquing the media.
... Demonstrate skill in media reading, viewing and listening.
. . . Identify the major personalities in Hawaii's media.
... Explain the law of libel and the right to privacy which govern the press.
... Demonstrate an understanding of the media's ethical codes.
. . . Show evidence of being a more discernible media consumer.

## 175 Desktop Publishing (2)

## 1 hour lecture, 3 hours lab per week

Prerequisite: Qualification for ENG 100 or 160 or instructor recommendation.
Introduction to word processing and page design using Microsoft Word, Aldus Pagemaker and Claris MacDraw II on the Macintosh. Students learn basic skills in preparing text and graphics for publication.
Upon successful completion of this course, the student should be able to:

Understand how each of the elements of page design can be used to develop an effective layout.
... Identify the key variables in producing any publication and understand the ways in which they impact upon publication design.
... Prepare a document with text and graphics placeholders using Microsoft Word on the Macintosh.
. . . Use the mail merge and glossary functions on Microsoft Word.
... Prepare graphic elements using Claris MacDraw II and Aldus Pagemaker.
... Use Aldus Pagemaker to prepare a brochure and a news or magazine page.
... Understand techniques for reproducing line drawings and halftones and draw upon that understanding to select the best method for reproduction.
... Understand the offset printing process.
. . Organize and follow a production schedule.
.. Produce a camera-ready layout using a combination of the computer and conventional methods.
... Understand the copyright law.

## 205 Newswriting (3)

3 hours lecture per week
Prerequisite: Qualification for ENG 100 or 160
Fundamentals of gathering and writing news and instruction in the rationale underlying professional Journalism. Weekly writing assignments for student paper required.
Upon successful completion of this course, the student should be able to:
.. Demonstrate an understanding of the evolution of press freedom and the principles and theory underlying it, as well as an understanding of statutes and court decisions governing libel, privacy, copyright and obscenity.
... Formulate a respect for ethical and responsible journalism.
... Demonstrate an awareness of the literature of journalism including periodicals which are concerned with events in the world of mass media.
... Write concisely, with speed and accuracy.
. Write the "standard types" of stories found in a newspaper: straight news, features, interpretativestories, editorials, as well as headlines for these stories.
... Demonstrate an understanding of the lechniques of interviewing, listening, observing, notetaking and working effectively with others.
... Show an understanding of how news is gathered and disseminated.
... Demonstrate a mastery of the Associated Press style sheet.

## 205L Newswriting Laboratory

## 1 hour lecture per week

Corequisites: Concurrent enrollment in JOURN 205
Recommended preparation: ENG 100 or 160
Review of grammar, syntax, punctuation and usage; editing for clarity, conciseness and coherence; sludy of the Associated Press style manual. Lab is mandatory for JOURN 205 students. Upon successful completion of JOURN 205L, the student should be able to:

Use the principles and rules of diction, grammar and mechanics, and the Associated Press style to write more effectively.
. . . Develop more effective sentence patterns - use the active vs. passive voice, eliminate subject-verb, pronoun reference and verb tense agreement errors, fragments and run-ons.
Avoid common spelling errors.
... Punctuate and abbreviate according to Associated Press style manual.
... Be more discriminating in word choice and avoid redundancy and wordiness.
.. Use parallel structure, repetition and rhythm for emphasis and clarity.
... Be able to apply the rules of the AP style manual.

## 225 Feature Writing (3)

3 hours lecture per week
Prerequisites: Journ 205, 205L, or recommendation of ENG 100 or 160 instructor
Nonfiction writing for magazines and newspapers.
Upon successful completion of this course, the student should be able to:
.. Gather information through interview, observation and reading to write the following types of stories:

- Personality profiles
- Descriptions of events and scenes
- Narratives
- Human interest stories
- Indepth news features
- Investigative news features
- Reviews
... Use pacing detail, repetition, word choice and metaphor to create a particular mood in a story.
... Understand libel, copyright and privacy laws as they pertain to the press.
. . . Use a wide variety of reference materials.


## 285 V News Production (1-3)

2 hours practicum per week for one credit, 1 hour lecture, 2 hours Practicum per week for two credits; 1 hour lecture, 4 hours practicum per week for 3 credils.
Prerequisite: Qualification for ENG 100 or 160 or consent of instructor.
May be repeated three times.
Theory and practice in all facets of producing a small news magazine including rudiments of press law and ethics, preparation of copy, type design, page layout, advertising and pasteup.
Upon successful completion of this course, the student should be able to:
. . . Demonstrate thinking that is clear, constructive and critical in writing and speaking.
... Develop a thesis statement and design an expository essay and/ or term paper, with attention to research skills and writing form. Discern and explain the main meaning or thesis statement in various types of written and oral presentations.
Separate value judgments and inferences from factual statements in various types of written and spoken material.
Demonstrate a greater respect for ethical and responsible journalism.
. . Understand some of the basic statutes and court decisions governing the press.
. . Understand the offset printing process.


## 101 Elementary Korean I (4) FL

3 hours lecture, 2 hours lab per week
This course provides the development of listening, speaking, reading and writing skills in Korean. Structural points are introduced inductively. Lab work is required.
Upon successful completion of this course, the student should be able to:
... Recognize and produce the sounds of Korean and learn the Korean writing system.
... Learn basic grammatical structures of Korean including the basic conjugation of verbs and postpositions of nouns.
... Acquire a basic vocabulary consisting of words and expressions dealing with commonly encountered objects, situations and ideas.
.. Learn a set of basic functions in Korean.
... Understand and participate in conversations that use the basic grammatical structures, vocabulary, expressions and functions.
... Use the same linguistic elements in short and simple compositions.
... Comprehend simple Korean script passages using the same linguistic elements.

## 102 Elementary Korean II (4) FL

3 hours lecture, 2 hours lab per week
Prerequisite: KOR 101 or equivalent
This course provides further development of listening, speaking, reading and writing skills in Korean. Structural points are introduced inductively. Lab work is required.
Upon successful completion of this course, the student should be able to:
... Learn basic grammatical structures of Korean including the basic conjugation of verbs and postpositions of nouns.
... Acquire a basic vocabulary consisting of words and expressions dealing with commonly encountered objects, situations and ideas.
. . . Learn a set of basic functions in Korean.
... Understand and participate in conversations that use the basic grammatical structures, vocabulary, expressions and functions.
... Use the same linguistic elements in short and simple compositions.
... Comprehend simple Korean script passages using the same linguistic elements.

## 201 Intermediate Korean I (4) FL 3 hours lecture, 2 hours lab per week Prerequisite: Satisfactory score on the language placement or KOR. 102

This course is a continuation of KOR 102. In this intermediate level course, the four skills of listening, speaking, reading and writing are further developed.
Upon successful completion of this course, the student should be able to:
... Ask and answer simple questions on topics such as Korean customs, cultural activities and simple transactions, such as at a theater or at a sports event.
... Improve the quality of his/her speech.
Achieve accuracy in basic constructions and use of high frequency verbs and auxiliary verbs.
. . . Use particles appropriately.
... Be able to distinguish different levels of speech and to adjust the speech to communicate tasks and social situations.

## 202 Intermediate Korean II (4) FL

3 hours lecture, 2 hours lab per woek
Prerequisite: Satisfactory score on the language placement test or KOR 201.
This course is a continuation of KOR 201. In this intermediate level course, the four skills listening, speaking, reading and writing are further developed.
Upon successful completion of this course, the student should be able to:
. . . Ask and answer simple questions on additional topics such as occupations, leisure time activities and simple transactions.
. . . Further improve the quality of his/her speech.
. . . Achieve greater accuracy in basic constructions and use of high frequency verbs and auxiliary verbs.
. . . Use particles more appropriately.
... Be able to distinguish further different levels of speech and to adjust the speech to communicative tasks and social situations.


22 Law for the Layman (3)
3 hours lecture per week
Introduction to various areas of law having to do with everyday living and business activities.
Upon satisfactory completion of the course, the student should be able to:
... Recognize the basic legal concepts and judicial processes related to the rights of individuals and family members in everyday living activities.
. . . Demonstrate knowledge of the general principles of law governing torts; personal, family, occupational and contractual relationships; home ownership and rentals; and estates.

## 30 Business Law 1 (3)

3 hours lecture per week
Study of the origin and principles of the American legal system. Upon successful completion of this course, the student should be able to:
... Demonstrate broad understanding of the American System of jurisprudence, its evolvement and procedures.
Recognize broad principles of law relating to contracts, agency, personal property and business organizations.

## 31 Business Law II (3)

3 hours lecture per meek
Prerequisite: LAW 30 is recommended
Continuation of LAW 30, emphasizing laws of the business environment.
Upon successful completion of this course, the student should be able to:
... Recognize broad principles of law relating to negotiable instruments, sales, real property, trusts or estates.
Demonstrate general awareness of legal rights and obligations arising out of business and financial dealings.

## 200 Legal Environment of Business

3 hours lecture per week
Introduction to the legal environment in which business operates. Upon successful completion of this course, the student should be able to:
... Demonstrate broad understanding of the American System of jurisprudence, its evolvement and procedures.
... Recognize broad principles of law relating to contracts, agency, personal property and business organizations.

## LEGAL ASSISTANT PROGRAM COURSES

Note: All law courses which follow require approval of the Legal Assistant Program Admissions Committee before registration.

## 101 The Hawai'i Legal System (3)

3 hours lecture per week
This course is required for all degree candidates in the legal assistant program.
Overview of the legal system and insights into the roles of the legal assistant.
Upon successful completion of this course, the student should be able to:
. . . Identify the structure of the Federal and State court systems.
... Identify and know the public agencies that operate as law firms (Office of the Public Defender, City Prosecutor, Attorney General, Legal Aid Society and Corporation Counsel).
... Identify and know the structure of the various governmental agencies.
. . . Describe the functions and authority of the legislative, judicial and executive branches of government.
... Describe basic differences between large and small law firms and know the paralegal's role in each type.
... Know the various ethical issues that confront the paralegal and the rules applicable to these issues.

## 102 Legal Research (3)

3 hours lecture per week
This course is required for all degree candidates In the legal assistant program.
Students will have a working knowledge of the major techniques of legal research and writing.
Upon successful completion of this course, the student should be able to:
... Locate relevant authority in any law library for use in drafting case notebooks, memoranda and briefs.
. . Work with the Uniform System of Citation.
. . . Use the Shepard's Citator to verify and update cited caselaw, statutes and other legal authority.
... Use Federal and State legislative materials, including statutes and legislative histories.
... Prepare a polished legal memorandum exploring both sides of a legal issue.

104 Civil Investigation (3)
3 hours lecture per week
Students will learn basic investigation techniques and gathering of evidence that will be admissible in courts.
Upon successful completion of this course, the student should be able to:
... Locate all commentary and laws pertaining to a case being investigated.
... Know the process of separating facts from assumptions and myths.
... Develop resources regarding the gathering of information.
... Take written and oral statements including how to utilize a tape recorder.

## 111 Litigation (3)

3 hours lecture per week
This course is highly recommended for all students.
Training in legal forms and procedures of litigation in Hawai'i.
Upon successful completion of this course, the student should be able to:
... Understand the types of tortious conduct (negligent misconduct, intentional misconduct and strict liability).
... Know the theory of complaint drafting and be able to draft a complaint.
... Know the methods and scope of discovery and its applicable rules.
. . . Summarize and digest a deposition and be familiar with fact, chronological and index summary methods.

## 121 Law of Business Organizations (3)

3 hours lecture per week
Familiarity of the legal concepts and procedures relating to commercial transactions.

Upon successful completion of this course, the student should be able to:
... Draft Articles of Incorporation (also close corporations), draft bylaws, initial minutes, stock certificates, obtain corporate seal, minute book and stock certificates.
... Draft documents for corporate liquidations and dissolutions.
... Prepare all documentation registering a foreign corporation to do business in Hawai'i, including registration statement, Hawai'i Excise Tax Forms and annual statement of registration.
. . . Draft partnership agreements.
... Complete a partnership registration statement to be filed at the Department of Regulatory Agencies.
... Draft specific documents and do business research using the best research materials available.
... Prepare contracts.

## 126 Taxation (3)

3 hours lecture per week
Overview and a working knowledge of the present structure of federal and Hawai'i tax law.
Upon successful completion of this course, the student should be able to:
... Understand the organization and operations of the Internal Revenue Service.
... Know the legal requirements for filing of returns and the payment of taxes.
... Understand basic tax planning strategies and techniques.
... Understand Internal Revenue Service audit procedures and methods.

## 131 Property Law (3)

3 hours lecture per week
Overview and a working knowledge of the present structure of property law in Hawai'i.
Upon successful completion of this course, the student should be able to:
... Understand the elements of a deed.
... Know the requisite elements of contracts and draft an agreement of sale.
... Know the steps involved in closing a real estate transaction, including the proration of real property taxes, the computation of conveyance taxes and closing costs, the drafting of escrow instructions and the necessity for and types of, title insurance.
... Understand the concept for quieting title to real property and be familiar with the Hawai'i statutes related thereto.
. . . Have a working knowledge of the landlord-tenant code.

## 136 Tort and Insurance Law (3)

3 hours lecture per week
Exposure to the legal principles of tort and insurance law.
Upon successful completion of this course, the student should be able to:
... Identify the principles and legal theories relating to torts to the person and property.
... Know the defenses of allegations of negligence.
... Know the legal principles and theories relating to product liability.
. . . Know how the Hawai'i Worker's Compensation system operates.
.. Know the theories and principles of insurance law and how insurance companies protect individuals.

## 140 Family Law (3)

## 3 hours lecture per week

Familiarity of the basic legal issues in adoption, divorce, paternity suits and other legal areas under the jurisdiction of the family court. Upon successful completion of this course, the student should be able to:
. . Recognize the standard Family Court forms, orders and memoranda as they stand at the completion of the course (these forms are subject to frequent change).
.. Prepare the initial pleadings in a divorce action, separation or annulment action, including the Matrimonial Action Information Sheet and the Information Concerning Child Care and Custody forms.
. . Identify the procedure for setting an uncontested divorce for hearing and identify the documents necessary for presentation to the Court to allow such a setting
.. Determine, in an adoption, the correct proceedings as to whether the case will be a consent or non-consent case.

## 151 Estate Planning and Probate (3)

3 hours lecture per week
Focus on the practical and theoretical aspects of probate administration and estate planning.
Upon successful completion of this course, the student should be able to:
. . . Know what assets are probatable and taxable.
. . . Know how to interview a will client.
. . . Draft a will from estate planning information.
... Interview the client for probate information.
. . . Gather together an estate.
... Identify procedures in the handling of small estates, informal proceedings, supervised probate and ancillary administrations.

## 161 Public Sector Law (3)

3 hours lecture per week
Overview of public interest laws.
Upon successful completion of this course, the student should be able to:
. . . Understand the organization and structure of Federal and State public assistance programs.
. . . Know the eligibility requirements and standards applied with regard to government assistance programs.
. . . Know the Federal and State forms of proceedings for review of determinations by administrative agencies.
. . . Know how the areas of environmental law mesh with other areas of substantive law in order to forward environmental policies and objectives.
.. . Know the scope and enforcement of civil liberties, with particular emphasis on the Bill of Rights.

## 166 Employment Related Law (3)

3 hours lecture per week
Examination of labor laws, labor relations and the structure of unions.
Upon successful completion of this course, the student should be able to:
... Identify the theories and policies behind the National Labor Relations Act and be familiar with its history and application.
.. . Know how standards for minimum working conditions are set and how those standards affect the working environment.
.. Identify the function of labor unions in our industrial society and the prospects of labor unions in the future as our industrial base evolves.
Understand the theories and principles relating to the grievance process and how that process is protected and regulated.

## 171 Consumer Law (3)

3 hours lecture per week
Overview and insight into the structure of consumer law.
Upon successful completion of this course, the student should be able to:
... Have in-depth awareness of the issues and problems relating to consumers.
... Use the various specialized research tools to do legal research on consumer disputes.
. . . Thoroughly know all Hawai'i consumer laws (or consumer related laws) that are applicable in the settlements of consumer disputes.
. . . Select the appropriate remedy for the consumer once the applicable authority has been selected and located.

## 176 Criminal Law (3)

3 hours lecture per week
Study of the major issues of criminal procedure and substantive criminal law.
Upon successful completion of this course, the student should be able to:
. . Know how the Hawai'i Penal Code is interpreted and applied in various hypothetical situations.
. . Know the Hawai'i Rules of Court and know how the most commonly applicable Rules are interpreted and applied.
.. . Know the procedural aspects of Hawai'i's criminal justice system and the piffalls raised by these procedural aspects in the course of criminal litigation.
. . Know the fundamental aspects of prosecutorial discretion, plea bargaining and negotiation involved in criminal litigation.

## 181 Legal Rights of the Disadvantaged (3)

3 hours lecture per week
Insight into governmental programs and legal right of the disadvantaged.
Upon successful completion of this course, the student should be able to:
... Know how various areas of substantive law bear upon issues affecting the disadvantaged; these areas of law include truth-in-lending, creditor-debtor and consumer law.
. Know the origin and procedures of the various public assistance laws in Hawai'i.
... Interview potential public assistance benefit claimants and know how to elicit information which will assist the claimant in obtaining benefits.
... Act as a legal representative in a hearing before a public assistance agency and be able to conduct direct and cross examination of witnesses, offer evidence into the record and make opening and closing statements.

## 201 Law Office Management (3)

## 3 hours lecture per week

The course is designed to cover the latest systems and procedures to manage a law office effectively and economically.
Upon successful completion of this course, the student should be able to:
. . Know general management concepts and systems applicable to law practices.
... Orient and train new employees and understand employee motivation theories.
... Know the various types of attorney fee arrangements and billings.
... Know the factors to be considered in creating a reliable system for transmitting and filing legal documents and information pertinent to the law practice.
... Know the operation and mainienance of the firm's law library.
... Design and implement an office procedures manual.

## 202 Legal Interviewing, Counseling and Negotiating (3) 3 hours lecture per week

This course is designed to sharpen verbal and written communication skills.
Upon successful completion of this course, the student should be able to:
.. . Prepare for an interview.
... Obtain important facts and information from the interviewee.
... Deal with private and public agencies in obtaining necessary information.
. . . Use effective communication skills in interviewing.

## 203 Legal Writing (3)

3 hours lecture per week
Prerequisite. LAW 102
Training in proper language and forms for the drafting of legal documents and memoranda.
Upon successful completion of this course, the student should be able to:
... Draft a fact memorandum.
... Draft a demand letter.
.. Draft the following documents: complaint, answer and interrogatories.
... Draft a memorandum of law.

## 250 Advanced Legal Topics (3)

3 hours lecture per week
Prerequisite: Satisfactory completion of corresponding 100 level course or instructor approval

Each semester an advanced legal topic course is offered, the selection of which is determined primarily by student demand. Each course is a directed reading, writing and research course which allows the student to pursue specialized knowledge and more advanced training in that specific topic.
Upon successful completion of this course, the student should be able to:
. . . Select, subject to the instructor's approval, a limited number of the competencies for the corresponding 100 -level course.
. . . Work with the supervision of the course instructor to strengthen the student's abilities in the competencies selected.

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Sections of LAW 250: Advanced Legal Topics
250B: Advanced Investigation
250C: Advanced Litigation
250D: Advanced Law of Business Organizations
250E: Advanced Taxation
250F: Advanced Real Property Law
250G: Advanced Tort and Insurance Law
250H: Advanced Family Law
2501: Advanced Estate Planning and Probate 250): Advanced Public Sector Law 250K: Advanced Employment Related Law 250M: Advanced Consumer Law 250N: Advanced Criminal Law
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## 282 Computer-Assisted Legal Research (3)

## 3 hours lecture per week

Prerequisite: LAW 102 or instructor consent
Recommended Preparation: LAW 101
This course provides working knowledge of the most useful legal research functions of LEXIS and/or WESTLAW computerized legal research systems through hands-on experience with the computers and through lectures regarding the theory of the research methods. Upon successful completion of this course, the student should be able to:
. . . Have working knowledge of at least one of the two primary national computerized legal research systems (LEXIS or WESTLAW)
... Complete a series of basic research problems on terminals and be able to perform the most common legal research applications of the computerized legal research systems.

## 193V Cooperative Education (1-3) <br> 293V Cooperative Education (1-3)

3 hours work experience each week for each credit.
Cooperative education: opportunity to use skills learned in the classroom in actual working conditions.
Upon successful completion of this course, the student should be able to:
... Display confidence in working within the legal system and in their abilities as a legal assistant.
... Be assertive with peers, supervisors and other personnel with whom they have contact within the legal system.
... Develop strategies for dealing with the interpersonal conflicts that sometimes arise with other law-office personnel.
. . . Explain to attorneys the economic and non-economic benefits of utilizing paralegals.


30C Listening and Note Taking (1)
3 hours leclure per week for five weeks
Prerequisite: 9.0 on the English Placement test or teacher recommendation
A module designed to improve listening and note-taking skills. Practice in listening to and taking notes of short lectures related to content area courses. Emphasis on techniques of note-taking.
Upon successful completion of this module, the student should be able to:
... Listen actively and selectively for central ideas and supporting details in short lectures.
... Take notes according to the lecturer's style and the nature of the subject matter.
... Write notes in a modified outline format by using such outlining principles as indenting, headings and markers.
. . . Recognize commonclues used by a speaker to signal or highlight information.
... Edit lecture notes by adding or deleting information, labeling major and minor points, underlining, organizing the material and integrating different parts of a lecture.
... Summarize lecture notes to clarify meanings and relationships and to strengthen memory retention.
... Understand the importance of a regular review and recitation of lecture notes for advance preparation for test-taking.

## 30E Textbook Reading (1)

3 hours lecture per week for five weeks
Prerequisite: 9.0 on the English Placement examination or teacher recommendation.
A module designed to improve skills in understanding and retaining textbook material. Practice in applying a textbook study system to content area materials. Includes a brief survey of techniques useful in the study of science and social science courses.
Upon successful completion of this module, the student should be able to:
... Preview a chapter to aid the student's understanding of textbook material.
... Pose appropriate questions based on a chapter preview to provide focus in the reading process.
... Recognize the structure of a paragraph and types of development.
... Select main ideas and significant supporting data from assigned reading material.
... Recognize different ways used to signal important facts and ideas.
... Highlight important words, sentences and paragraphs by using specific marking techniques.
. . . Use appropriate strategies for remembering what has been read.
. . . Recite and review highlighted text material to ensure retention.
. . . Recognize patterns of organization commonly used in the social sciences and the sciences.

30F Test-taking (1)
3 hours lecture per week for five weeks
Prerequisite: 9.0 on the English Placement examination or feacher recommendation
A module designed to improve test-taking skills. Emphasis on objeclive test-taking techniques and writing clear, organized essay answers. Includes test preparation techniques and memory retention. Upon successful completion of this module, the student should be able to:
... Understand basic preparation techniques for lest-taking such as lecture notes.
... Review for an examination by organizing principles and concepts, seeing interrelationships and synthesizing the material.
... Determine what is important enough tostudy when preparing for an examination.
. . Use memory techniques for test preparation.
... Prepare for different kinds of tests: objective, short-answer, essay and problem solving.
... Predict possible questions, objective and essay, that may be asked on given material.
... Survey an examination, noting number of questions and their point value for dividing time allotment.
... Understand instructions commonly used in both objective and essay examinations.
... Recognize particular clues in objective questions such as specific determiners and multiple choice clues as length, most general and word association.
... Write clear, organized essay answers for assigned questions on content area readings.


## 102 Introduction to the Study of Language (3) AH3

Prerequisite/Recommended Preparation: 13th grade reading level or successful completion of ENG 100 or ENG 160
An investigation of the nature and function of language: its composition (the sound system, grammatical structure and lexicon); representation (oral and written), acquisition and change (relationships between languages of the world and the changes in language over time). General linguistic principles applicable to all languages will be covered. Terms will be introduced making it possible for students to discuss language and to understand what linguists say and write about it.
Upon successful completion of this course, the student should be able to:
... Develop a deeper understanding of and appreciation for the nature of language and a livelier interest in all its manifestations.
... Apply the theoretical linguistic principles discussed in class to the analysis of language as it is used in the community.
... Perform basic phonological, morphological and syntactical analysis of language data.
... Distinguish geographic, historical and social variation in language.
. . . Reconstruct the ancestral form of words on the basis of selected data from contemporary daughter languages.
. . . Explain the differences between human language and animal communication systems.
. . . Develop an awareness of gender-related issues in language use.
. . . Transcribe the sounds of English using phonetic symbols.
... Understand the terminology and concepts of the discipline.


18 Introduction to Supervision (3)
3 hours lecture per week
Recommended Preparation: BUS 20
Insight into management and supervision of personnel. Upon successful completion of this course, the student should be able to:
... Demonstrate understanding of the basic principles of successful supervision, i.e. how to motivate, direct and control small groups of workers especially in service industries.
. . Evaluate the supervisor's role in organizations typical of those operating in Hawai'i.


1 Basic Mathematics (3)
3 hours lecture per week
A developmental course improving competence in numerical processes involving fractions, decimals and percents.
Upon successful completion of this course, the student should be able to:
. . Add, subtract, multiply, divide and round-off fractions and decimals.
.. . Solve problems using ratio and proportion.
... Change a percent to the equivalent decimal or fraction and vice-versa.
... Solve problems involving percents.
... Solve verbal problems involving fractions, decimals, proportions or percents.

## 24 Elementary Algebra I (3)

## 3 hours lecture per week

Prerequisite: A grade of "C" or better in MATH 1 or a placement test recommendation of MATH 24.
Introduction to basic algebra topics. Math 24 is the first course in a two semester sequence of Elementary Algebra courses. Instruction includes units on operations with signed numbers, linear equations and inequalities in one variable, the coordinate plane and linear systems in two variables. A scientific calculator is required.

Upon successful completion of this course, the student should be able to:
... Translate word phrases to algebraic expressions.
... Use the order of operations to find the value of algebraic expressions.
... Identify whole numbers, integers, rational numbers, irrational numbers, and real numbers.
... Find the absolute value, additive inverse, and multiplicative inverse of a real number.
Perform the basic operations (add, subtract, multiply, and divide) with signed rational numbers.
. . Identify the following properties: commutative, associative, identity, inverse, and distributive.
... Identify terms, like terms, and numerical coefficients in a polynomial.
.. . Solve linear equations and inequalities in one variable.
. . Solve a formula for a specified variable.
... Write and solve ratios and proportions including those from word problems.
... Plot an ordered pair and state the quadrant in which it lies.
Graph linear equations and inequalities by point plotting, the intercept method, and the slope-intercept method.
Write the equation of a line given two points or the slope and $y$-intercept or the slope and a point on the line.
Solve linear systems of equations or inequalities in two variables by algebraic and graphic methods.
... Use linear systems to solve word problems.

## 25 Elementary Algebra II (3)

3 hours lecture per week
Prerequisite: A grade of "C" or better in Math 24 or a placement test recommendation of Math 25.
A continuation of basic algebra topics. Math 25 is the second course in a two semester sequence of Elementary Algebra courses. Instruction includes units on exponents, polynomials, factoring, rational expressions and equations, radical expressions and equations, and quadratic equations. A scientific calculator is required. Upon successful completion of this course, the student should be able to:
. Identify and use the laws of exponents to simplify expressions with integral exponents.
... Use scientific notation in calculations.
... Add, subtract, multiply and divide polynomials in one or two variables.
... Factor the greatest common factor from a polynomial expression.
... Factor a polynomial of four terms by grouping.
... Factor general trinomials $a x^{2}+b x+c$, where $a, b$, and $c$ are integers.
... Recognize and factor the difference of two squares.
. . . Recognize and factor a perfect square trinomial.
. . Write rational expressions in lowest terms.
. . . Add, subtract, multiply, and divide algebraic fractions.
.. . Solve equations containing radicals.
. . . Solve word problems that lead to equations containing radical expressions including indirect variation.
... Identify a given radical as rational, irrational or not real.
... Evaluate a radical expression.
.. . Simplify a radical expression.

Add, subtract, multiply or divide radical expressions.
Solve equations containing radicals.
Solve word problems that lead to equations containing radical expressions.
Solve a quadratic equation with integral coefficients by factoring.
... Solve equations of the form $(a x+b)^{2}=c$, using the square root property of equations.
. . . Complete the perfect trinomial square given a partial trinomial.
... Use the quadratic formula to solve quadratic equations.

## 24-25 Elementary Algebra I \& II (6)

5 hours lecture per week plus 2 hours per week in the Learning Assistance Center
Prerequisite: Satisfactory performance on placement test or satisfactory completion of MATH 1 and prior experience with elementary algebra
An accelerated elementary algebra course which covers the topics of MATH 24 and 25 in one semester. The course moves at a very rapid pace and is designed for students who need a fast review of elementary algebra. Upon successful completion of this course, the student should be able to satisfy all competencies listed under MATH 24 and 25.

## 27 Intermediate Algebra (3)

3 hours lecture per week
Prerequisite: Satisfactory completion of MATH 25 or a placement test recommendation of MATH 27.
Math 27 extends topics which were introduced in the elementary algebra sequence, and prepares the student for precalculus. Instruction includes units on algebraic simplification of polynomial, rational, exponential and radical expressions, as well as solving equations, inequalities and systems of equations involving polynomial, rational, exponential and radical expressions, and the graphing of lines and parabolas. A scientific calculator is required.
Upon successful completion of this course, the student should be able tor.
... Add, subtract and multiply polynomial expressions.
... Factor the sum and difference of cubes.
... Divide polynomial expressions using synthetic division.
... Simplify rational expressions, noting restrictions.
... Add, subtract, multiply and divide rational expressions, noting restrictions.
... Simplify exponential expressions.
. . Simplify radical expressions with index three or higher.
... Express solutions to equations and inequalities in solution sets and interval notation, as appropriate.
... Solve a linear equation or inequality.
... Solve an equation or inequality involving absolute values.
... Solve a nonlinear inequality by using sign charts.
... Solve a quadratic equation.
Solve a radical equation.
... Solve a $3 \times 3$ system of linear equations.
... Solve a system of linear and nonlinear equations.
... Graph a linear equation in two variables.
. . . Determine the equation of a given line.
... Determine the equation of a line parallel or perpendicular to a given line.
... Graph a parabola by plotting points.

## 35 Geometry (3)

3 hours lecture per week
Prerequisite: Salisfactory performance on placement test or satisfactory completion of MATH 25
Elementary Euclidean geometry: precision and accuracy of analytical reasoning.
Upon successful completion of this course, the student should be able to:
. . Recognize basic geometric terms and relationships.
... Construct a two column deductive proof based on given geometric assumptions.
... Solve problems using formulas for areas of polygons and circles and surface areas and volumes of solids.
... Solve problems using the properties of similar triangles in terms of ratio and proportion.
. . . Solve problems using the properties of congruent triangles and know the conditions necessary for congruence.
... Work with the Pythagorean theorem and other properties of right triangle.
. . . Solve problems using properties oí circles.
. . Work with parallel and perpendicular lines and their properties in the solutions of related problems.
. . . Use coordinate geometry to solve simple distance problems.

## 50H Technical Mathematics I/Food Service (3)

3 hours lecture per week
Prerequisite: MATH 1 or satisfactory score on math placement test. Applied math for vocational programs. Review of arithmetic, ratio, proportion, powers, roots, formulas, weights and measures, geometrics, applications, problem solving.
Upon successful completion of this course, the student should be able to:
. Apply skills in basic arithmetic, measurements, and the addition, subtraction, multiplication and division of positive and negative numbers to simple problems.
... Evaluate formulas and simple equations in converting between Metric and English measurement systems.
... Understand the basic concept of percentage in terms of applications in all types of common practical situations.
... Understand basic geometric terms and concepts and be able to use these concepts to solve practical problems in geometry.
. . . Use mathematics to solve problems of production forecasting, standard cost planning, profit planning and cost control, recipe conversion and pre-costing, interests and consumer credit, formulas and ratios.

## 100 Survey of Mathematics (3) M/L

3 hours lecture per week
Prerequisite: Salisfactory performance on placement test or excellent performance in MATH 24, or satisfactory performance in MATH 25, or tested placement at MATH 27/100.
A survey of important elementary concepts in algebra, logical structure, numeration systems, and probability, designed to acquaint non-specialists with examples of mathematical reasoning, and to develop an appreciation and understanding of their historical development and the relationship of mathematics to the modern world.
Although this course fulfills UH-Mānoa BA core requirements, it is
not acceptable as a prerequisite to QM 252, MATH 135, or any other above 100 mathematics course.
Upon successful completion of this course, the student should be able to:
... Use basic techniques in symbolic logic to draw deductive conclusions in simple situations.
. . Solve some problems in finance (compounded interest, annuity, installment payment etc.) using hand calculators.
Understand concepts in permutations and combinations and their applications.
.. Understand basic concepts of probability \& statistics.

## 115 Statistics (3) M/L

3 hours lecture per week
Prerequisite: Satisfactory performance on placement test or satisfactory completion of MATH 27.
Elementary probability and statistics.
Upon successful completion of this course, the student should be able to:

Articulate and interpret various descriptive statistics, such as mean, median, mode, range, variance, and standard deviation. Draw and interpret various graphs, such as as frequency histograms, bar graphs, and cumulative relative frequency histograms.
... Solve probability problems involving the concepts of independent events, mutally exclusive events, and conditional probability.
... Calculate probabilities involving normal random variables.
... Determine and interpret (for large samples) confidence interval estimates of population means and proportions.
... For a set of paired data: draw a scatter diagram, determine and draw the corresponding regression line, and calculate and interpret the corresponding correlation coefficient.

## 135 Elementary Functions (3) M/L

## 3 hours lecture per week

Prerequisite: Satisfactory performance on placement test or satisfactory completion of MATH 27
Functions, polynomials, systems of linear equations, absolute values, inequalities, logarithms and exponentials.
Upon successful completion of this course, the student should be able to:
. . Understand and apply definitions of functions, inverse functions and composition functions.
... Show familiarity with all principles involving linear functions.
... Find roots, evaluate, sketch and solve inequalities involving polynomial functions.
... Graph rational functions using the concept of asymptotes.
... Understand and be able to apply definition and principles of logarithmic and exponential functions.
... Use knowledge and techniques of this course in solving applied problems.

## 140 Trigonometry and Analytic Ceometry (3) M/L

3 hours lecture per week
Prerequisite: Satisfactory performance on placement test or satisfactory completion of MATH 135

Properties of trigonometric functions, analytic geometry, polar coordinates, conic sections, vectors.
Upon successful completion of this course, the student should be able to:
... Solve verbal and non-verbal problems in plane trigonometry.
. . . Relate functional and geometric properties of conic sections.
... Simplify algebraic expressions involving complex numbers.
... Use and apply polar expressions of complex numbers.
... Relate vectors with circular functions.

## 205 Calculus I (4) ML

4 hours lecture per week
Prerequisite: Satisfactory completion of MATH 140 or equivalent.
First semester calculus on algebraic functions.
Upon successful completion of this course, the student should be able to:
. . Understand the concept of limit.
... Differentiate polynomial functions and products, quotients and compositions of polynomial functions.
... Use differential calculus to sketch curves and to solve applied problems.
... Integrate functions by approximation and by use of the antiderivatives.
... Use integral calculus to determine area and to solve applied problems.

## 206 Calculus II (4) ML

4 hours lecture per week
Prerequisite: Satisfactory completion of MATH 205 or equivalent. Explores derivatives and integrals of trigonometric, exponential, and logarithmic functions; techniques of integration; Taylor approximations.
Upon successful completion of this course, the student should be able to:
... Differentiate and integrate elementary transcendental functions.
... Integrate functions using special methods.
... Express certain functions in polar coordinate system and sketch the curve of such functions.
... Use the techniques developed in this course to solve applied problems.

## MEDICAL ASSISTING (MEDAS)



100 Introduction to Medical Assisting (3)
3 hours lecture per week
Survey of the role of the Medical Assistant in patient care; basic knowledge of administrative and clinical skills, including ethical and legal issues, communication skills and nutrition.
Upon successful completion of this course, the student should be able to:
... Describe the duties and responsibilities of the Medical Assistant.
... Develop an understanding of Medical Assisting as a profession.
. . . Understand the role of other health care members in patient care.
... Understand the importance of ethics in health care.
... Discuss fundamental legal aspects of patient care.
. . Demonstrate basic knowledge of communication skills required of a Medical Assistant.
. . . Demonstrate fundamental math skills required of a Medical Assistant.
. . . Define terminology pertinent to the sludy of nutrition.
. . . Identify the six nutrients, their functions and their common sources.
Name the Basic Food Groups.
... Identify nutritional needs in life cycles.

120 Clinical Medical Assisting (2)
2 hours lecture/discussion per week
Prerequisite: Admission into the Medical Assisting Program or consent of instructor
Corequisites: MEDAS 120L, 125
Recommended Preparation: High school course work in health science. Clinical care skills as an assistant to a physician in an ambulatory care facility setting.
Upon successful completion of this course, the student should be able to:
... Explain basic ambulatory care concepts and principles in the performance of back office duties.
Discuss routine patient care/diagnostic procedures to assess the health status of patients including:

- Vision testing
- Hearing testing
- Electrocardiography
... Discuss preparation of back office, equipment and supplies to facilitate the smooth flow of patients through the clinic and/or physician's office.


## 120L Clinical Medical Assisting (2)

6 hours lab per week
Prerequisite: Admission into the Medical Assisting Program
Corequisites: MEDAS 120, 125
Recommended Preparation: High school course work in health science.
Training in preparing and performing medical office procedures and diagnostic tests and follow-up care.
Upon successful completion of this course, the student should be able to:
... Apply basic ambulatory care concepts and principles with entry-level proficiency in the performance of duties in the back office.
. . . Perform routine patient care procedures to assist the physician in the examining room.
... Demonstrate the practice of medical-surgical asepsis.
... Demonstrate sterilizatior/disinfection of instruments and supplies.
... Demonstrate ability to obtain and record medical data from patients.
... Prepare patients for exams and/or treatments.
. . . Measure and record vital signs, height, and weight.
. . . Perform hearing and vision screening and ECG tracings.

## 125 Clinical Office Experience (1)

## 50 hours clinical total

Prerequisite: C or better in MEDAS 120 and $120 L$
Corequisite: MEDAS 120, 120 L
Recommended Preparation: High school course work in health science.
Application in the medical office of knowledge and skills gained in corequisite major courses.
Upon successful completion of this course, the student should be able to:
... Perform in the role of a beginning Medical Assistant in the clinical area by demonstrating the necessary traits acceptable of the profession, including communication skills and working relationship with medical and allied health personnel.
... Obtain and record medical data from patients.
... Perform routine patient care procedures to assist the physician in the examining room.
... Assist the physician with exams and/or treatments.
. . Assist the physician with minor surgery.
... Demonstrate ability to perform general reception responsibilities.
... Perform medical records responsibilities.
... Perform correspondence responsibilities.
. . . Perform business office responsibilities.
... Demonstrate ability to adjust when associating and working with others in the medical office.
... Obtain and record medical data from patients.
... Prepare exam/treatment rooms.
... Prepare patients for exams and/or treatments.
... Measure and record vital signs, height, and weight.
... Perform hearing and vision screening and ECC tracings.

## 140 Administrative Medical Assisting (2)

2 hours lecture per week
Prerequisites: OAT 20 and admission to MEDAS program
Corequisite: MEDAS 140L, 145
Administrative front office procedures for clinics and/orphysician's office.
Upon successful completion of this course, the student should be able to:
... Apply the basic concepts and principles of medical office practices and procedures with entry-level proficiency in the performance of duties in the administrative or front office.
... Perform medical office administrative tasks as a receptionist and bookkeeper, and assist the physician in handling correspondence and appointments.
. . . Discuss importance of accurate record keeping.
. . Utilize the principles of medical economics.
... Proper filing of insurance claims, collection and banking techniques.
Prepare the front office, equipment and supplies to facilitate the smooth flow of patients through the clinic and/or the physician's office.

## 140L Administrative Medical Assisting Lab (2)

## 6 hours lab per week

Prerequisites: OAT 20 and admission to MEDAS program
Corequisite: MEDAS 140, 145
Laboratory practice In performing administrative office procedures.
Upon successful completion of this course, student should be able to:
... Perform administrative planning functions for an ambulatory care facility in the lab.
. . . Demonstrate various routine office reception and oral communication techniques.
... Role-play common administrative medical assistant/client situations.
. . . Complete various reimbursement forms using a computer.
... Prepare patient schedules, equipment requests and budgetary forms for the office.
... Perform exercises in written communication, dictation and transcription.

145 Administrative Medical AssistingPracticum (1)
50 hours total
Prerequisite: OAT 20 and C or better in MEDAS 140, 140 L.
Corequisites: MEDAS 140, 140L
Application of knowledge and skills gained in MEDAS 140,140L. Upon successful completion of this course, the student should be able to:
... Exhibit professional behavior in working with clients.
. . . Demonstrate ability to organize tasks efficiently.
... Demonstrate ability to perform general reception responsibilities.
. . . Perform medical records responsibilities.
. . . Perform correspondence responsibilities.
... Perform business office responsibilities.
... Demonstrate ability to adjust when associating and working with others in the medical office.

## 201 Medical Law and Ethics (2)

2 hours lecture/discussion per week
Prerequisite: MEDAS 120, 140
Legal and ethical responsibilities in patient care and management: laws pertaining to medical practice and medical assistants and application of medical ethics in performance of duties.
Upon successful completion of this course, the student should be able to:
... Apply a working knowledge of laws which affect medical practice and the practice of Medical Assistants.
... Apply basic concepts of medical ethics in relationships with physicians, patients, and co-workers in the performance of duties as a Medical Assistant.

## 210 Medical Assisting Critique (1)

2 hours lecture/discussion per week
Prerequisite: Satisfactory completion of MEDAS 120,120L,125,
140, 140L, 145, 201, and consent of instructor
Corequisites: MEDAS 215
An analytical approach to correlate practical experience in the
delivery of quality patient care.
Upon successful completion of this course, the student should be able to:

Function effectively as an allied health team member in the delivery of quality patient care through knowledge and skills with entry-level proficiency in the performance of all aspects of a beginning professional medical assistant.
Correlatebasic ambulatory patient care concepts and principles to analyze, synthesize, and evaluate patient situations in the externship experience of potential ethical and legal ramification of patient management ... both medical and economical ... as well as the consideration of governmental laws, safety standards, record maintenance, quality patient care, and education. Identify problem areas and select alternatives in the solution of these through active participation in class problem-solving methods using effective communication skills.
... Perform satisfactorily in objective testing, demonstrating indepth knowledge of illness/wellness, medical care objectives and/or philosphies and the student's role in assisting in the diagnosing, examining, and treatment procedures.
Assume the responsibility for self-improvement and development as demonstrated by the selection and completion of individual projects as well as seeking community and professional workshops to attend.
. . Review and prepare for certification as a Professional Medical Assistant.

## 215 Externship (5)

37.5 hours of clinical per week for six (6) weeks

Prerequisite: Satisfactory completion of MEDAS 120, 120L, 125, 140, 140L, 201, and consent of instructor
Corequisites: MEDAS 210
Development of professional characteristics as a practicing Medical Assistant.
Upon successful completion of this course, the student should be able to:
.. . Function and demonstrate professional characteristics expectant of a beginning practicing Medical Assistant.
. . . Apply basic ambulatory patient care concepts and principles with entry level proficiency in the performance of their duties in the administrative and clinical areas.
. . . Perform routine patient care procedures to assist the physician in examination and treatment rooms.
... Perform simple laboratory diagnostic tests to assist the physician in the health appraisal of patients.
. . . Prepare the back office, equipment and supplies to facilitate the smooth flow of patients through the clinic and/or physician's office.
... Perform routine front office procedures to assist the physician in the care of patients.
... Prepare the front office, equipment and supplies to facilitate the smooth functioning of this area.
... Use the working knowledge by which the law affects a medical practice and the student specifically as a Medical Assistant.
Apply the basic concepts of medical ethics and economics in relationships with the physician, patients and co-workers in the performance of identified duties as a Medical Assistant.

220 Advanced Clinical Medical Assisting (2)
4 hours lecture/lab per week
Prerequisite: MEDAS 120, 120L, 125, BIOL 22 or 130
Corequisites: MEDAS 220L, 225
Advanced clinical care procedures skills as an assistant to a physician in an ambulatory care facility.
Upon successful completion of this course, the student should be able to:
... Assist the physician in the appraisal of the health status of patients with prescribed medical office diagnostic tests and follow-up care.
.. Correctly and efficiently perform electrocardiography. Coordinate patient treatment with modalities.
Coordinate diagnostic radiographic procedures.
220L Clinical Medical Assisting Specialities Lab (1)
3.5 hours of laboralory per week for thirteen weeks

Prerequisite: MEDAS 120, 120L, 125, BIOL 22 or 130
Corequisites: MEDAS 220, 225
Upon successful completion of this course, the student should be able to:
. . . Demonstrate proper procedure for ECC tracing set-up.
... Identify and trouble-shoot mechanical artifacts on ECG tracings.
... Assess patient skills and understanding of basic principles of physical therapy.
... Demonstrate proper procedure in preparing patients for diagnostic radiographic procedures.
... Demonstrate proper patient preparation procedures with treatment modalities.
. . . Demonstrate coordination of patient treatment with treatment modalities.

## 225 Advanced Clinical Medical Assisting Specialties Practicum

 (1)50 hours total
Prerequisites: MEDAS 120, 120L, 125, BIOL 22 or 130
Corequisites: MEDAS 220, 220 L
Application in an ambulatory care setting of knowledge and specialty procedures gained in MEDAS 220 and 220L.
Upon successful completion of this course, the student should be able to:
... Assist physician with examination and treatments.
... Application of basic concepls and principles of medical office practices and procedures.
... Preparation of back office, equipment, and supplies to facilitate smooth flow of patients through clinic/physician's office.
... Assisting physicians in appraisal of health status of patients through

- Application of diagnostic concepts and procedures
- Prescribed diagnostic tests
- Follow-up care and treatment
... Performing routine office diagnostic tests and procedures.
... Functioning and demonstrating professional characteristics expected of a beginning practicing medical assistant.

250 Basic Cardiac Arrhythmias (3)
3 hours lecture per week
Prerequisites: BIOL 22 or 130, or ZOOL 141

Crosslisted as RESP 250
Survey of cardiac anatomy and function, electrophysiological properties of the heart, common rhythms and arrhythmias.
Upon successful completion of this course, the student should be able to:
. . . Identify the basic anatomy of the heart.
... Describe the heart's systemic and pulmonary circulation.
... Discuss each phase of the cardiac cycle.
... Describe the electrophysiological properties of the heart.
. . . Discuss the nervous control of the heart.
. . Demonstrate correct lead placement for the common monitoring leads.
Identify and describe how the electrical activity of the heart is represented on the electrocardiograph.
Identify common cardiac rhythms and arrhythmias and describe the treatment for each arrhythmia.
Identify commonly used pacemakers and how they are represented on the electrocardiograph.
Identify patterns of myocardial infarction on the electrocardiograph.


100 Introduction to the Clinical Laboratory (2)
4 hours lecture/lab per week
Prerequisite: Admission into the MLT, MEDAS or PHLEB program or permission of MLT program Director
This course provides an introduction to the field of laboratory technology, to include basic laboratory skills, including phlebotomy.
Upon successful completion of this course, the student should be able to:
. . . Demonstrate knowledge of clinical laboratory organizations and the roles of various laboratory personnel within the organization.
... Perform basic laboratory techniques.
. . Use basic laboratory instruments and equipment.
. . . Demonstrate competence in obtaining blood specimen.
. . . Demonstrate ability to effectively interact with patients, hospital and laboratory personnel.
... Describe quality control in the clinical laboratory.

## 1008 Phlebotomy Practicum I (1)

50 clinical hours
Prerequisite: MLT 100 (may be concurrent)
This course is the clinical application of the skills and knowledge learned in MLT 100. Fifty hours will be spent in an affiliated clinical laboratory collecting and processing specimens for the laboratory. Upon successful completion of this course, the student should be able to:
... Effectively select and utilize vacutainers, syringes and butterflies to obtain blood samples.
... Perform a minimum of 50 successful, unaided venipunctures
after choosing the appropriate supplies for each sample.
. . Perform a minimum of five successful, unaided fingersticks after choosing the appropriate supplies for each sample.
. . . Explain and follow the basic rules and regulations essential for safe and accurate phlebotomy.
... Process specimens accurately, according to the procedures set in the specific clinical laboratory.
... Exhibit appropriate interpersonal skills with patients, coworkers and other health care personnel in person and on the telephone.
... Explain the policies and use the procedures in the clinical laboratory to assure quality in the obtaining of blood specimens.
... Exhibit a professional demeanor while performing phlebotomist duties.

## 100C Phlebotomy Practicum II (1)

## 50 clinical hours

Prerequisite: MLT 100B (may be concurrent)
This course is the clinical application of the skills and knowledge learned in MLT 100 and a continuation of MLT 100 B with more indepth practice, specialized techniques and computerized processing of laboratory specimens. Fifty hours will be spent in an affiliated clinical laboratory collecting and processing specimens for the laboratory.
Upon successful completion of this course, the student should be able to:
... Effectively select and utilize vacutainers, syringes, and butter-
flies to obtain blood samples.
... Perform a minimum of 50 successful, unaided venipunctures after choosing the appropriate supplies for each sample.
... Perform a minimum of five successful, unaided fingersticks after choosing the appropriate supplies for each sample.
. . . Perform accurately at least two bleeding time tests.
. . . Make a minimum of 25 blood slides that meet the following criteria:

- Blood covers $1 / 2$ to $2 / 3$ the length of the slide.
- Blood film is smooth with no holes or dust.
- The edges do not reach the lateral end of the slide.
- The thick end flows evenly to the feather edge.
. . . Explain and follow the basic rules and regulations essential for safe and accurate phlebotomy.
. . Utilize the laboratory computer system for specimen processing.
... Process specimens accurately, according to the procedures set in the specific clinical laboratory.
... Demonstrate proper techniques to perform venipunclure and capillary puncture by performing a stated minimum number of successful unaided venipunctures, fingersticks and heel sticks using appropriate supplies for each sample.
. . . Make a stated minimum number of blood slides meeting stated criteria.
... Exhibit a professional demeanor while performing phlebotomist duties.


## 101 Hematology I (1)

1 hour lecture per week
Prerequisite: Admission to the MLT program or permission of MLT program Director
Corequisite: MLT 101L

This course willenable the students to learn the basics of human red and white blood cell structure and function and the theoretical aspects behind the enumeration and identification of the blood cells.
Upon successful completion of this course, the student should be able to:
. . List the different types of human blood cells.
... Describe the morphology, function, and formation of-

- Erythrocytes
- Leukocytes
- Thrombocyles
... Describe the theory behind the following laboratory procedures:
- Hemoglobin
- Hematocrit
- Manual cell counting
- Differential count
- Sedimentation rate

List the normal values for the laboratory tests listed above.
... Describe the safety precautions necessary in the Hematology laboratory.
Describe quality control in the Hematology laboratory.

## 101L Hematology I Laboratory (1)

3 hours lab per week
Prerequisite: Admission the MLT program or permission of MLT program Director
Corequisite: MLT 107
This course will enable the students to learn the basic techniques of red and white blood cell counting and microscopic identification, as well as hemoglobin and hematocrit determinations.
Upon successful completion of this course, the student should be able to:
... Identify the following cells under the microscope:

- Erythrocytes
- Leukocytes
- Thrombocytes
... Perform the following procedures within the limits of two standard deviations:
- Hemoglobin
- Hematocrit
- Manual cell counting
- Differential count
- Sedimentation rate
. . . Perform the appropriate quality control procedures for Hematology.
. . Utilize the safety precautions necessary in the Hematology laboratory.

103 Urinalysis (1)
Spring 1
2 hours lecture/lab per week
Prerequisite: Admission into MLT program
Study of basic principles and laboratory procedures for urinalysis. Upon successful completion of this course, the student should be able to:
... Discuss the basic principles underlying routine laboratory procedures in urinalysis.
.. . Describe normal and abnormal constituents of urine and their clinical significance.

## 104 Clinical Immunology (2)

Spring I
2 hours lecture per week
Prerequisiles: MLT 100, BIOL 130
Corequisite: MLT 107
Study of immune system in health and disease and the theory
behind antigen-antibody reactions in vivo and in vitro.
Upon successful completion of this course, the student should be able to:
... Describe the structure and chemistry of immunoglobulins and their role in the immune response.
... Discuss the mechanisms that protect the body from disease and/or injury.
... Discuss the underlying principles of laboratory testing for antigen and antibody reactions.

## 105 Serology (1)

2 hours lecture/lab per week
Prerequisite: Admission to the MLT program, MLT 100 or consent of MLT Program Director
Corequisite: MLT 104
This course will provide the basic laboratory experience in Clinical Immunology and Serology, encompassing the major antigen-antibody reaction technology.
Upon successful completion of this course, the student should be able to:
... Demonstrate proper techniques of pipetting and making serial dilutions and accurately calculate dilutions
... Describe the clinical significance, antigens and antibodies of the most commonly performed tests in the serology laboratory.
... Perform the following tests with $100 \%$ accuracy

- Agglutination
- Enzyme immunoassay (colorimetric)
- Immunodiffusion
- Immunofluorescence
... Perform and record quality control in equipment, reagents and technique with $100 \%$ accuracy.
... Utilize the safety precautions necessary in the Serology laboratory.


## 106 Clinical Microbiology I (2)

Spring I

## 2 hours lecture per week

Prerequisite: MLT 100, BIOL 130, CHEM 171, 171 L or consent of instructor
Corequisite: MLT 104, 107
Introduction to study of microorganisms, host-parasite relationships, control and characterization of disease-causing organisms. Upon successful completion of this course, the student should be able to:
. . . Describe morphology, growth, and metabolism in bacteria.
. . . Identify principles of host-parasite relationships.
... Describe principles and methods of control of microorganisms.
. . . Identify principles of action of antibiotics.
. . . Describe specimen collection and handling.

4 hours lecture/lab per week
Prerequisite: MLT 100, Admission to the MLT Program or consent of instructor
Corequisite: MLT 106
Upon successful completion of this course, the student should be able to:
... Make smears of bacterial cultures, stain and identify the cellular characteristics of bacteria by color, shape and arrangement.
... Streak a culture plate for isolation of bacteria and describe colonial morphology.
... Explain the collection and proper handling of specimens received in a clinical microbiology lab and list pathogens and non-pathogens found in each specimen.
. . . Perform laboratory exercises on selected bacterial organisms to define characteristic and biochemical reactions useful in identification of bacteria.
... Identify the bacteria in an unknown specimen with $100 \%$ accuracy.
. . Utilize the safety precautions necessary in the Clinical Microbiology laboratory.

## 111 Hematology II (2)

2 hours lecture per week
Prerequisites: Admission to the MLT Program or consent of MLT Program Director; MLT 101, 101L; BIOL 130
Corequisite: MLT 111 L
This course will enable the students to identify abnormal human red and white blood cells and discuss the diseases associated with these cells. The basic principles of laboratory procedures in Hematological and coagulation disorders are included in this course.
Upon successful completion of this course, the student should be able to:
... Define and identify the various inclusion bodies found in red and white blood cells and the conditions in which they occur.
... Describe the cellular picture and clinical significance of the following disease states:

- Anemias(macrocytic, normocytic, microcytic, hemolytic)
- Polycythemias
- Pancytopenias
- Leukemias
- Lymphomas
- Multiple myelomas
... Describe the clinical significance of and differences among the various hemoglobins.
... Summarize the facets of hemostasis and their interrelationship.
. . . Discuss the coagulation mechanism, its stages and each factor involved in coagulation.
... Identify microscopically the various inclusion bodies found in red and white blood cells in pathological conditions.
... Identify microscopically the cellular picture of the following disease states:
- Anemias (macrocytic, normocytic, microcytic, hemolytic)
- Polycthemias
- Pancytopenias
- Leukemias
- Lymphomas
- Multiple Myelomas
... Operate and maintain equipment applicable to hematology and coagulation laboratories.
... Perform the following laboratory procedures within $\pm$-two standard deviations:
- Prothrombin time
- Activated Partial Thromboplastin time
- Thrombin time
- Fibrinogen titer
. . Perform the appropriate quality control procedures for Hematology and coagulation.
. . Utilize the safety precautions necessary in the Hematology and coagulation laboratories.


#### Abstract

140C Clinical Rotation I - Urinalysis (1) Summer I 5 hours supervised clinical experience per week for 10 weeks Prerequisites: MLT 100, 101, 102, 102L, 104 and 107 and/or consent of program director Application of knowledge and skills learned in MLT 103; work to be done in Affiliated clinical laboratories. Upon successful completion of this course, student should be able to: ... Transfer knowledge and skills learned in MLT 103 to the clinical laboratory. ... Interact effectively with patients and laboratory personnel.


## 140D Clinical Rotation I - Serology (1)

Summer I
5 hours supervised clinical experience per week for 10 weeks Prerequisites: MLT 100, 101, 102, 102L, 104 and 107 and/or consent of program director
Application of knowledge and skills learned in MLT 104 and 107; work to be done in affiliated clinical laboratories.
Upon successful completion of this course, student should be able to:
... Transfer knowledge and skills learned in MLT 104 and 107 to the clinical laboratory.
... Interact effectively with patients and laboratory personnel.

202 Clinical Chemistry 1 (2)
Summer I
5 hours lecture per week for six week summer session
Prerequisites: Admission to the MLT Program or consent of MLT Program Director; CHEM 162, 162L; BIOL 130
Corequisile: MLT 202 L
This course will cover the principles of clinical biochemistry as it pertains to testing for chemical constitutents in blood and body fluids. This beginning level course will include an introduction to the general biochemistry of metabolism, carbohydrates, kidney and liver function.
Upon successful completion of this course, the student should be able to:
... Demonstrate knowledge of the theoretical principles of clinical biochemistry in laboratory diagnosis.
... Describe the metabolic pathways basic to the physiology of
the human body.
... Describe the collection and handling of all clinical specimens to be processed for clinical chemistry.
... Describe the function, structure, mode of action and clinical significance of each of the following chemical substances:

- Glucose
- BUN
- Uric acid
- Creatinine
- Bilirubin
- Calcium
- Phosphorous
- Iron/iron binding capacity

Describe the theory behind the preceding laboratory procedures and list the normal values associated with each.
... Correlate abnormalities of blood and urine chemistry associated with:

- Altered carbohydrate metabolism
- Kidney disease
- Liver disease


## 2021 Clinical Chemistry I Laboratory (1)

Summer 1
7 hours lab per week for six week summer session
Prerequisites: Admission to the MLT Program or consent of MLT
Program Director; CHEM 162, 162L; BIOL 130
Corequisite: MLT 202
This course will provide the laboratory experience in performing the Clinical Chemistryprocedures that are discussed in MLT 202. The student will learn the techniques for analyzing blood and body fluids for diagnosis of diabetes, kidney disease and liver disease. Upon successful completion of this course, the student should be able to:
.. Calculate mean and standard deviation and apply basic statistics to quality control in the chemistry laboratory.
... Use the appropriatestatistical formula for determining reliability of clinical chemistry assays.
. . . Perform the following manual clinical chemistry determinations on serum, plasma, or urine within $\pm$ two standard deviations of the stated value of the sample:

- Clucose
- BUN
- Creatinine clearance
- Bilirubin
- Calcium and phosphorous
- Iron/iron binding capacily
... Operale and mainlain according to standarized procedures and describe the principles of the following instruments:
- Spectrophotometers
- Alac 2000
- automatic dilutors and pipettors
. . Prepare written laboratory reports on each procedure performed and each instrument used to include:
- Principle of the procedure (and/or instrument)
- Function of each reagent used
- Clinical significance of the test
- Results (including standard curves and graphs where ap plicable) and calculations
- Conclusions

List and describe coagulation abnormalities and the laboratory
results associated with each disorder.
... Describe and discuss the fibrinolytic system.
... Perform all tests utilizing appropriate safety measures as stated in safety manuals.
... Organize work in an orderly manner and maintain the laboratory area in a clean, working condition.

## 203 Clinical Chemistry II (3)

3 hours leclure per week
Prerequisite: MLT 202
Corequisite: MLT 203L
This course will cover the principles of clinical biochemistry as it pertains to testing for chemical constituents in blood and body fluids. This advanced level course will include protein and lipid chemistry, acid-base balance, enzymes, endocrinology, instrumentation and recent advances in clinical chemistry.
Upon successful completion of this course, the student should be able to:
... Describe the function, structure, mode of action, and clinical significance of each of the following chemical substances:

- Electrolytes
- Blood gases
- Protein and fractions
- Lipids
- Enzymes
- Hormones - steroid, protein and peptide
... Describe the theory behind the preceding laboratory procedures and list the normal values associated with each.
... Correlate abnormalities of blood and urine chemistry associated with:
- Altered acid base balance
- Kidney disease
- Liver disease
- Heart disease
- Neurological system disorders
- Endocrine and reproductive system disorders
- Bone and muscle disease
- Neoplasma
... Explain enzyme kinetics and relate the concept to laboratory testing for enzymes.
... Describe laboratory instrumentation to include:
- Centrifugal analyzers
- Discrete analyzers
- Continuous flow analyzers
... Describe the general principle of electrophoresis and its role in disease diagnosis.
... Describe the mode of action, clinical significance, and methods for determining therapeutic drugs and drugs of abuse.
... List and describe tumor markers found in blood and body fluids.
... List the substances measured to determine fetal maturity and the clinical significance of each test.


## 203L Clinical Chemistry II Laboratory (1)

3 hours lab per week
Prerequisite: MLT 202, 202L
Corequisite: MLT 203
This course will provide the laboratory experience in performing
the Clinical chemistry procedures that are discussed in MLT 203. The student will learn the techniques for analyzing blood and body fluids for diagnosis of various disease states by manual and automated methods.
Upon successful completion of this course, the student should be able to:
... Perform the following manual clinical chemistry determinations on serum, plasma, or urine within $\pm$-two standard deviations of the stated value of the sample:

- Protein and Albumin
- Chloride and CO2
- Amylase and lipase
- Enzyme determinations
- Salicylate
- Immunoassay
... Operate and maintain according to standardized procedures and describe the principles of the following instruments:
- Ion selective electrode
- Atac 2000
- Chloridometer
- Flame photometer
- Electrophoresis equipment
- Blood gas analyzer
- Dupont ACA II
... Prepare written laboratory reports on each procedure performed and each instrument used to include:
- Principle of the procedure (and/or instrument)
- Function of each reagent used
- Clinical significance of the test
- Results (including standard curves and graphs where applicable) and calculations
- Conclusions

Perform all tests utilizing appropriate safety measures as stated in safety manuals.
... Organize work in an orderly manner and maintain the laboratory in a clean, working condition.

204 Immunohematology (2)
Fall II
4 hours leclure/lab per week
Prerequisite: MLT 104 and acceptance into MLT program or consent of instructor
Principles of Blood Banking, blood typing, donor-patient testing, and antibody identification in human blood. Inheritance and transfusion problems will be discussed, as well as disease states affected by antigen-antibody reactions on blood cells.
Upon successful completion of this course, the student should be able to:
. . . Describe the red cell antigens (blood types) and the characteristics of their corresponding antibodies.
... Discuss the causes of transfusion reactions, hemolytic disease of the newborn, and hemolytic anemia.
... Describe theclinical significance of antibody and antiglobulin lesting.
. . List donor qualifications.
... Accurately determine the ABO and Rh type of a blood specimen and identify atypical antibodies.
... Accurately perform crossmatch procedures with donor and patient blood specimens

2 hours lecture per week
Prerequisites: MLT 106 or consent of instructor
Corequisite: MLT 207
Study of pathogenic microorganisms and parasites as they relate to human disease.
Upon successful completion of this course, the student should be able to:
... Identify characteristics of pathogenic microorganisms and parasites and their relationship to human disease.
... Describe processes used in the identification of pathogenic microorganisms and parasites.

## 207 Clinical Microbiology 1 Laboratory (2)

4 hours lecture/lab per week
Prerequisite: Admission to the MLT program or consent of MLT
Program Director; MLT 106, 107
Corequisite: MLT 206
This course will provide the advanced laboratory experience in Clinical Microbiology, including a continuation of MLT 107 techniques and parasitology and mycology lab techniques.
Upon successful completion of theis course, the student should be able to:
... Identify unknown cultures of medically significant bacteria to genus and species level and determine antibiotic susceptibility.
... Describe the technique used to collect, handle and/or preserve specimens received in the laboratory for parasite examination.
.. . List and describe methods of concentrating stool specimens for parasites.
... Identify the most commonly found parasites to genus and species upon observation of appropriate material.
... List and describe: methods of preparing fungal smears and culturing fungi; collection and handling of speciments for fungal examination; and media used in the isolation and identification of fungi.
... Utilize the safety precautions necessary in the Clinical Microbiology laboratory.

## 240 Seminar (1)

1 hour lecture per week
Prerequisites: Consent of MLT Program Director; MLT 201, 201L, 204, 206, 206 L
Corequisites: MLT 242B, C, D, E
This is a seminar in which students discuss clinical experiences and other topics related to clinical laboratory medicine.
Upon successful completion of this course, the student should be able to:
... Think critically about the clinicallaboratory as a career choice.
. . . Communicate ideas relevant to laboratory medicine to peers.
. . . Develop skills for lifelong learning.
... Correctly answer at least 70 percent of the questions asked on a comprehensive medical laboratory lechnician exam.
... Present a two hour seminar for peers on a topic relevant to laboratory medicine as a career choice.
... Prepare a resumé for obtaining a position in a clinical laboratory.

242B Clinical Rotation II - Blood Bank (2)
100 total hours
Prerequisites: MLT 104, 204
Corequisite: MLT 240
This is the application of knowledge and skills learned in MLT 104 and 204. The work is performed in affiliated clinical laboratories. Upon successful completion of this course, the student should be able to:
. . . Transfer knowledge and skills learned in MLT 104 and MLT 204 to the clinical laboratory.
... Interact effectively with patients and laboratory personnel.

## 242C Clinical Rotation II - Chemistry (4)

200 total hours
Prerequisite: MLT 203, 203 L
Corequisite: MLT 240
This is the application of knowledge and skills learned in MLT $202 /$ 202L and MLT 203, 203L. The work is performed in affiliated clinical laboratories.
Upon successful completion of this course, the student should be able to:
. . Transfer knowledge and skills learned in MLT 202/202L and MLT 203/203L to the clinical laboratory.
... Interact effectively with patients and laboratory personnel.

## 242D Clinical Rotation II-Microbiology (4)

200 total hours
Prerequisites: MLT 106, 107 and MLT 206, 206 L
Corequisite: MLT 240
This is the application of knowledge and skills learned in MLT 106, 107 and MLT 206, 206L. The work is performed in affiliated clinical laboratories.
Upon successful completion of this course, the student should be able to:
... Transfer knowledge and skills learned in MLT 106, 107 and MLT 206/206L to the clinical laboratory.
... Interact effectively with patients and laboratory personnel.

## $242 E$ Clinical Rotation II - Hematology (4)

200 total hours
Prerequisites: MLT 111, 111 L
Corequisite: MLT 240
This is the application of knowledge and skills learned in MLT 101/ 101 L and MLT 111/111L. The work is performed in affiliated clinical laboratories.
Upon successful completion of this course, the student should be able to:
... Transfer knowledge and skills learned in MLT 101, 101 L and MLT 111, 111L to the clinical laboratory.
. . Interact effectively with patients and laboratory personnel.

130 General Microbiology (3) NS1
3 hours lecture per week
Recommended Preparation: (1) MATH 25, (2) CHEM 101 or 151, or 161, or BIOCH 241
The fundamentals of microbiology with an emphasis on microorganisms as they affect people, property and the environment. Broad aspects of biochemistry, genetics, molecular biology, physiology, host-parasite relationships, infectious diseases, immunology, public health, epidemiology, food microbiology and environmental microbiology will be covered.
Upon successful completion of this course, the student should be able to:
... Describe the organization of life at the cellular and subcellular levels.
. . . Describe the main characteristics of bacteria, including their morphology, growth, reproduction, and classification.
... Understand and describe in general terms, the fundamental biochemistry of bacterial metabolism and compare it to eukcaryotic cell metabolism.
... Understand and describe the basic principles of molecular genetics as they relate to cell division, mutation, genetic engincering, bacterial virulence and antibiotic resistance.
... Understand and describe the fundamental principles of the host-parasite relationship both in health and disease.
... Describe the components of the human immune system and understand how these components interact in generating an immune response.
... Mathematically express the growth characteristics of a bacterial culture.
... Describe the major and the common infectious diseases of humans.
. . . Understand and apply methods of microbial control that can be used to prevent both the transmission of infectious diseases and the spoilage of foods and textiles.
... Read and understand microbiology articles in nursing journals and the popular press.

140 General Microbiology Laboratory (2) NS1
4 hours lecture/lab per week
Prerequisite: Credit or concurrent enrollment in MICRO 130. Recommended Preparation: MATH 25
The fundamental laboratory aspects of microbiology with a public health and medical emphasis.
Upon successful completion of this course, the student should be able to:
... Use the metric system and scientific notation.
... Use and properly care for the compound microscope, including the oil immersion lens.
... Prepare, examine, and accurately interpret various stained
slide specimens including gram stained, capsule stained, endospore stained and flagella stained specimens.
... Understand and properly execule the aseptic transfer of bacterial cultures.
... Use sterile pipettes aseptically and accurately.
... Demonstrate the ubiquity of microbes as part of our normal flora and as present in the environment.
. . Understand and demonstrate the principles and the techniques which are used to control microorganisms such as antibiotics, food preservatives and the chemical and physical disinfecting and sterilizing agents.
Enumerate the bacteria in food and water samples and mathematically predict the growth characteristics of these bacteria.
. . . Understand and demonstrate the effect of different personal hygiene practices on our normal flora and on pathogens.
... Demonstrate and understand the various nutritional requirements and characteristics of medically important bacteria
... Demonstrate the ability to isolate in pure culture and to identify common human commensal bacteria.
... Demonstrated the principles involved in the transmission of pathogenic organisms by the common routes.
. . . Demonstrate the thinking skills needed to critically observe, measure, evaluate, and interpret experimental data and the creativity needed to formulate hypotheses to explain the data.


150 Pre-Hospital Assessment and Treatment I (10)
8 hours lecture, 6 hours lab per week
Prerequisite: Acceptance into MICT program (Credit by exam for LEAP candidates) (CreditNo Credil for LEAP program)
Upon successful completion of this course, the student should be able to:
... Build upon knowledge and skills obtained at the EMT level to refine patient assessment, including taking the patient's history and performing a physical examination to assess illness or degree of injury.
... Safely and accurately administer medications by a variety of routes.
... Explain and demonstrate the initiation and continuation of advanced life support care under medical control, including recognition of presenting symptoms and initiation of appropriate invasive and non-invasive treatment for: surgical, medical, pediatric, obstetric, and psychiatric emergencies; and airway and respiratory problems.
... Safely and accurately perform in a non-patient care situation, designated advanced life support measures.

160 Pre-Hospital Assessment and Treatment II (5) 8 hours lecture, 6 hours lab per week
Prerequisite: MICT 150 with a grade of "C" or above (Credit by exam for LEAP candidates) (Credit/No Credit for LEAP program)

Theory and laboratory practice of advanced life support skills in assessment and treatment of patients with cardiac conditions which require pre-hospital emergency care.
Upon successful completion of this course, the student should be able to:
... Describe detailed anatomy and physiology of the cardiovascular and respiratory systems.
. . . Recognize and interpret 12-Lead EKGs.
... Recognize normal and abnormal EKC rhythm disturbances and interpret life threatening dysrhythmmias.
. . State specific treatment of arrthymias according to approved standing orders for MICTs.
... Perform advanced cardiac life support skills.

200 Advanced Pre-Hospital Assessment and Treatment (5)
6 hours lecture, 4.5 hours lab per week
Prerequisite: MICT 160 with a grade of "C" or above (CreditNo Credit for LEAP program)
Theory and laboratory practice of additional advanced cardiac life support and advanced trauma life support in the pre-hospital emergency environment.
Upon successful completion of this course, the student should be able to:
. . Complete the Advanced Cardiac Life Support-Provider course according to standards set by the American Heart Association.
... Complete the Pre-Hospital Trauma Life Support-Provider course according to standards set by the National Association of Emergency Medical Technicians.
. . Recognize signs and symptoms, and perform medical management of various types of burns in the pre-hospital environment.
. . Perform, in the non-patient caresituation, all skills required for functioning as a MICT.

## 201 Pre-Hospital Assessment and Treatment Clinical Experience (4) <br> 18 hours clinical (10 weeks)

Prerequisite: MICT 160 with a grade of "C" or above (Credit/No Credit for LEAP program)
Mandatory CreditNo Credit
Participation in basic and advanced life support skills for patients in selected clinical facilities, including major hospitals, ambulances and the blood bank.
Upon successful completion of this course, the student should be able to:
... Safely and accurately perform advanced life support procedures, under direct supervision, in a hospital or ambulance setting.
... Correlate the clinical and theoretical aspects of selected patient situations, through a series of case reports.

202 Pre-Hospital Assessment and Treatment Internship I (4)
3 hours lecture, 27 hours ambulance
Prerequisite: MICT 200 with a grade of "C" or above; MICT 201
with a grade of credit
Mandatory Credit/No Credit
Initial experience as a MICT intern on an advanced life support emergency ambulance.

Upon successful completion of this course, the student should be able to:
... Safely and accurately perform in the emergency situation, at an introductory level, all advanced life suppori procedures as listed in the Board of Medical Examiners Rules for Emergency Ambulance Personnel.
... Exercise personal judgement in case of interruption in medical direction caused by communication failure or in cases of immediate life threatening conditions; under these conditions, provide such emergency care as has been specifically authorized by approved standing orders.

250 Pre-Hospital Assessment and Treatment Internship (14)
1 hour lecture, 39 hours ambulance
Prerequisite: MICT 201, 202 with a grade of credit
Mandatory CredivNo Credit
MICT internship experience on selected advanced life support ambulances.
Upon successful completion of this course, the student should be able to:
... Perform in an entry-level position as a Mobile Intensive Care Technician.
... Safely and accurately perform all advanced life support procedures as listed in the Board of Medical Examiners Rules for Emergency Ambulance Personnel.
. . Take a leadership role with ambulance, first responder, and other personnel to ensure the safety and care of the patient.
... Exercise personal judgement in case of interruption in medical direction caused by communication failure or in cases of immediate life threatening conditions; under these conditions, provide such emergency care as has been specifically authorized by approved standing orders.


## 51, 52, 53, 54 Reading Rhythms I/II/III/IV

(1-1-1-1)

## 1.5 hours lab per week

## Mandatory CR/NC

A programmed learning lab course required of all students who register in any music course except MUS 201, 201L. The next higher level is required each semester that new music courses are elected.
Upon successful completion of this course, the student should be able to:
... MUS 51-Complete Tape 12, Exercise 1, with a score of 205 (out of 207).
... MUS 52-Complete Tape 19, Exercise 2, with a score of 170 (out of 173).
.. MUS 53-Complete Tape 19, Exercise 3, with a score of 168 (out of 173) and Tape 26, Exercises 20-23 nonstop, with a score of 116 (out of 119).
MUS 54-Complete Tape 30, Exercise 3, with a score of 56 (out of 56), Exercise 4, with a score of 54 (out of 54), and Tape 38, Exercise 2, with a score of 42 (out of 46 ).

## 106 Music Appreciation (3) AH1

## 3 hours lecture per week

Corequisite: MUS 51, 52, 53, or 54
Analysis of music through listening and critique. All types of music are surveyed, but emphasis is upon classical. Four observations of performances in the community required.
Upon successful completion of this course, the student should be able to:
... Demonstrate familiarity with the masterpieces of classical music repertoire.
. . . Demonstrate knowledge of stylistic periods in music/art history, including representative composers from each, and salient compositional characteristics which help place unfamiliar repertoire into familiar periods.
Analyze music of any type (i.e., classical, ethnic, popular, seasonal) for texture, rhythm, form, melodic contour, harmonic orientation and time of composition.
... Discuss intelligently the live performances seen during the semester.
... Understand classical performance tradition and etiquette.

## 107 Music in World Culture (3) AH1

3 hours lecture per week
Corequisite: MUS 51, 52, 53, or 54
Music of different cultures as cultural product and process, as well as sound organization. Musical concepts, performance contexts, and cultural process of specific regional musics. Particular emphasis on the music of Asia and the Pacific.
Upon successful completion of this course, the student should be able to:
... Demonstrate knowledge relating to the following with regard to each culture studied:

- Salient repertoire
- Analysis of harmonic format used (western, non-western)
- Instruments or vocal techniques unique to this group
- The history of music in this society.
... Discuss intelligently the series of live performances observed during the semester.


## 108 Beginning Theory (3) AH1

## 3 hours lecture per week

Prerequisite: Qualification for MATH 25
Corequisite: MUS 51, 52, 53, or 54
Learning to read and write music.
Upon successful completion of this course, the student should be able to:
. . . Demonstrate the basic components of western music notation: major, minor, and chromatic scales, key signatures, intervals, chords, and chord symbols.
... Understand keyboard structure and its relevance to harmonic and melodic relationships.
... Demonstrate ability to notate basic rhythmic patterns, both in simple and compound meters.
... Understand the rationale for harmonization and its application to simple melodies.

114 College Chorus (2) AH1
3 hours lecture/lab per week
Corequisite: MUS 51, 52, 53, or 54
May be repeated for credit. Not applicable towards the humanities requirement. Choral music, both serious and recreational.
Upon successful completion of this course, the student should be able to:
. . . Demonstrate knowledge of repertoire presented.
. . . Demonstrate knowledge of basic vocal technique.
... Understand problems of performance in a variety of physical settings.
. . . Understand performance etiquette.
... Discuss intelligently the extra-class performances observed.

## 121B Voice I (2) AH1

3 hours lecture/lab per week
Corequisite: MUS 51, 52, 53, or 54
Prerequisite: Ability to carry a tune on pitch. (Subject to audition during first week of class). Cannot be audited.
A beginning class in solosinging. Basic principles of performance. Upon successful completion of this course, the student should be able to:
... Demonstrate an understanding of basic notational concepts.
. . . Intelligently critique a wide variety of singing styles.
. . . Perform (alone) a series of vocal solos with close attention to techniques demonstrated in class.
. . . Demonstrate knowledge of tome production, the breathing apparatus, interpretation, and the qualities of an artist.

121C Piano 1 (2) AH1
1 hour lecture/2 hours lecture/lab per week
Corequisite: MUS 51, 52, 53 or 54
The first of a four-semester sequence in learning to play the piano utilizes electronic piano lab. Practice facilities available on weekdays.
Upon successful completion of this course, the student should be able to:

Demonstrate the ability to play simple songs: first level literature.
Build triads in root position from any given note.
Demonstrate the ability to play all major scales, one octave/two hands.

121D Guitar I (Classical) (2) AH1
1 hour lecture, 2 hours lab per week
Prerequisite: Consent of instructor
Corequisite: MUS 51, 52, 53, or 54
Cannot be audited. Basic principles of classical guitar performance.
Upon successful completion of this course, the student should be able to:
. . . Demonstrate the ability to tune the guitar properly.
. . . Show how to properly care for the instrument.
. . . Demonstrate basic playing skills; major scales, arpeggios, etudes/exercises.
. . . Demonstrate ability to play first level songs.
... Demonstrate an ability to perform elementary solo and ensemble literature in a public recital.
.. Demonstrate an understanding of elementary music notation and style interpretation.

## 122B Voice II (2)

1 hour lecture, 2 hours lecture/lab per week
Prerequisite: MUS 121B or consent of instructor
Corequisite: MUS 51, 52, 53 or 54
An intermediate class in solo singing. Basic principles of performance. Cannot be audited.
Upon successful completion of this course, the student should be able to:
.. Demonstrate a knowledge of various vocal styles and musical terms.
... Demonstrate a historical knowledge of the origin and development of vocal music.
... Demonstrate an in-depth understanding of intermediate level vocal techniques: diction, tone production and breath control.
... Demonstrate the ability to perform intermediate level solo vocal literature in a public recital.

## 122C Piano II (2) AH1

1 hour lecture, 2 hours lecture/lab per week
Prerequisite: MUS 121C or consent of instructor
Corequisite: MUS 51, 52, 53, or 54
The second of a four-semester sequence in learning to play the piano. Utilizes electronic piano lab. Practice facilities available on weekdays.
Upon successful completion of this course, the student should be able to:
... Play second level repertoire, along with supplementary literature on the level of First Lessons in Bach.
. . . Play all the sharp scales, two hands/two octaves.
... Build commercial music chords in triad position and expand to various positions.

## 122D Guitar II (Classical) (2) AH1

1 hour lecture, 2 hours lecture/lab per week
Corequisite: MUS 51, 52, 53 or 54
Prerequisite: MUS 121D or consent of instructor
Cannot be audited. Basic principles of classical guitar performance.
Upon successful completion of this course, the student should be able to:
... Demonstrate basic playing skills: major scales, arpeggios, etudes/exercises on an intermediate level.
... Demonstrate ability to play accompaniments and solo songs.
... Demonstrate an ability to perform elementary solo and ensemble literature in a public recital.
... Demonstrate an understanding of more advanced notation and style interpretation.

180 Ear Training (2)
3 hours lecture/lab per week
Prerequisite; MUS 108
Corequisite: MUS 51, 52, 53, or 54

Transcribing sound to notation; sightreading.
Upon successful completion of this course, the student should be able to:
... Transcribe intervals accurately.
... Transcribe rhythmic patterns in both simple and compound meters.
... Transcribe simple melodies, including rhythm used.
. . . Sightread (sing) simple melodies.

201 Vocal Ensemble (The Maile Aloha Singers) (2) AH1
6 hours rehearsal/performance per week
Prerequisite: Audition and consent of instructor
Corequisite: MUS 201L
Rehearsals and performances of the Maile Aloha Singers. May be repeated for credit. Not applicable to humanities area requirement. Upon successful completion of this course, the student should be able to:
... Demonstrate knowledge of repertoire and dance routines presented.
. . Demonstrate knowledge of basic vocal technique.
... Understand the problems of performance in a variety of physical settings.
. . Understand performance etiquette, including behavior expectations prior to and after performances.
. . Understand principles of good grooming (for stage purposes), costume maintenance, the importance of positive social relationships within a musical ensemble, responsibility for personal promptness, and seriousness of purpose.

## 201 L Dance Lab (1) AH1

3 hours lab per week
Corequisite: MUS 201
Basic dance warm-ups and routines for use in performances of Vocal Ensemble (MUS 201/aka Maile Aloha Singers). May be repeated for credit. Not applicable to humanities area requirement. Upon successful completion of this course, the student should be able to:
... Show a greater awareness of body movement.
... Demonstrate basic dance steps.
... Demonstrate routine taught.

## 221C Piano III (2)

1 hour lecture, 2 hours lecture/lab per week
Prerequisite: MUS 122C or consent of instructor
Corequisite: MUS 5 1, 52, 53, or 54
The third in a four-semester sequence in learning to play the piano. Utilizes electronic piano lab. Practice facilities available on weekdays.
Upon successful completion of this course, the student should be able to:
... Playthird level repertoire on a level with Clementi Sonatinas or easier Chopin Preludes.
. . . Play the major scales in flats, two hands/two octaves.
. . . Play an elementary harmonization from chord symbols.
... Participate with growing confidence in a public performance.

## 222C. Piano IV (2)

1 hours lecture, 2 hours lecture/lab per week
Prequisite: MUS 221C or consent of instructor
Corequisite: MUS $51,52,53$ or 54
The fourth in a four-semester sequence in learning to play the piano. Utilizes electronic piano labs. Practice facilities available on weekdays.
Upon successful completion of this course, the student should be able to:
... Play all major scales, two hands/four octaves, with correct fingering.
. . . Improvise an accompaniment from chord symbols.
.. . Sight-read simple songs.
Perform on level of Chopin Preludes, Bach Two-Part Inventions or higher.
Participate in recital with relative confidence.

## 231B Elementary Applied Music, Western (Voice) (1 or 2)

30 minutes to 1 hour per week individual lesson
Prerequisite: MUS 121B or audition and consent of instructor Corequisite: Special course offered by the Office of Community Services, may be taken for 1 or 2 credits, $\$ 150$ fee per credit. Individual instruction in vocal performance at the elementary level. This course may be repeated four times for credit; it cannot be taken as an audit or CR/NC.
Upon successful completion of this course, the student should be able to exhibit:
... The ability to discern and demonstrate range, good intonation, and tone production using proper breathing and vocal techniques.
... Knowledge and exposure to a variety of song types and singing styles ranging from classical music to present day popular music.
... The ability to perform each vocal solo, particularly in English, with a relatively high degree of musicianship throughout all singing styles studied.
Exposure to and knowledge of the qualities of an artist (interpretation, musicality, the breathing apparatus, and stylization).
The ability to perform a series of vocal songs in a recital program.

231C Elementary Applied Music, Western (Piano) (1 or 2) 30 minutes to one hour per week, individual lessons
Prerequisite: Audition and consent of instructor Corequisite: Special course offered by Office of Community Services, may be taken for 1 or 2 credits, $\$ 150$ fee per credit. Recommended Preparation: 2 years of previous piano study. Individual instruction in piano performance at the elementary level. This course may be repeated four times for credit; it cannot be taken as an audit or CR/NC. Student must have access to a piano for practice.
Upon successful completion of this course, the student should be able to:
... Demonstrate ability to play piano literature at the following
level:

- Two-Part Invention by J. S. Bach.
- First movement of a sonata by Haydn, Mozart, or Beethoven.
- One composition by a Romantic, Impressionistic, or Con temporary composer.
... Play scales: Major and Harmonic Minor, four octaves, hands together, M.M. 92 to the quarter note.
... Play arpeggios: Major and minor triads in root position, parallel and contrary motion, two octaves.


## 231G Elementary Applied Music, Western

 (Classical Guitar) (1 or 2)0.5 hour private instruction plus 2.5 hours independent practice per week (for one credit) or 1 hour private instruction plus 5 hours independent practice per week (for 2 weeks)
Prerequisite: MUS 122D or consent of instructor
Corequisite: MUS 51, 52, 53 or 54
Cannot be audited.
Advanced individual instruction in classical guitar playing.
Upon successful completion of this course, the student should be able to:
... Demonstrate an ability to play solo guitar literature (pieces with two or more voices, e.g., melody and harmony), such as: Lagrima, by Francisco Tarrega Romance, anon.
Adelita, by Francisco Tarrega
one etude by Fernando Sor
one etude by Matteo Carcassi
... Demonstrate the ability to play major scales on the entire fingerboard
... Demonstrate the ability to play major and minor triads, solid and broken (arpeggios).


Photo by Moriso Teraoka


9 Long Team Care/Home Health Nurses Aide (4)
11 hours lecture and 8 hours of lab per week for 3 wks, and 6 hours clinical per day for 2 weeks.
2.2 credits ( 33 hours) lecture.
1.8 credits ( 84 hours) lab/clinical

Prerequisite: G.E. reading level of 9.0, First Aid and One Man

## CPR Certification

This is a 5 -week course to prepare entry level nurses aides who can function in the long-term care and home health settings. Students in the course will learn to provide basic personal care, communicate with patients and staff, perform simple nursing procedures and provide basic emotional support to the elderly, ill and disabled in the long term care and home health settings. Upon successful completion of this course, the student should be able to:
... Function as a member of the Long Term Care (LTC) health care team under the supervision of a nursing instructor.
. . . Experience the role and skills of the home health aide and be aware of the adaptations of basic care to the home setting.
... Provide safe, simple basic nursing care to clients in Long Term Care (LTC) and in the home care setting.
. . . Assist the clienUfamily to meet the nutritional and therapeutic needs as required or ordered.
... Use communication skills to facilitate understanding between client, self and agency staff.
. . . Effectively carry out simple housekeeping tasks.
. . . Provide companionship and comfort to clients in Long Term Care and at home.
.. Recognize the legal and ethical responsibilities of a Long Term Care/Home Health Aide.

12 Diseases, Special Diets, Medicines (1)
For individuals who will be operating Adult Residential Care Homes. Requires reading level of 8.0 or better, high school diploma or G.E.D.
6 hours lecture per week for 3 weeks
Prerequisite: Reading Level of 8.0 or better, Nurses Aide
Training, or 1 year experience
This course prepares the adult residential care home operator to observe the resident for signs and symptoms of common diseases, make medications available and prepare special diets.
Upon successful completion of this course, the student should be able to:
... Review the major structures and functions of six body systems.
... Recognize common chronic diseases in the elderly, their signs and symptoms and usual treatment.
. . . Identify common types of therapeutic diets and apply guidelines for preparing such diets.
... Identify the role and responsibilities of the adult residential care home operator in making medications available to residents.

13 Helping Therapies and Behavior Management (1)
For individuals who will be operating Adult Residential Care Homes. Requires reading level of 8.0 or better, high school diploma or G.E.D.
6 hours lecture per week for 3 weeks
Prerequisite: Reading level 8.0 or better, Nurses' Aide Training, or 1 year experience
This course prepares adult residential care home operators to assist in the provision of occupational, physical, recreational and diversional therapies. It also prepares them to identify the operator's role in fostering mental health and caring for the mentally ill and the mentally retarded.
Upon successful completion of this course, the student should be able to:
... Identify the adult residential care home operator's role in assisting the occupational, physical and recreational therapists.
... Plan and implement diversional and recreational programs suited to the needs and interests of the resident.
. . . Recognize common behavioral problems of the mentally ill and mentally retarded and the operator's role in caring for these individuals.

14 Regulations, Accounts, Community Resources (1)
For individuals who will be operating Adult Residential Care Homes. Requires reading level of 8.0 or better, high school diploma or G.E.D.
6 hours lecture per week, 3 weeks
Prerequisite: Reading level 8.0 or better, Nurses' Aide Training, or 1 year experience
This course will help to prepare the adult residential operator to implement specified regulations of Chapter 100, Title II, Department of Health; prepare simple accounting records; and identify community resources available to residents and operators.
Upon successful completion of this course, the student should be able to:
... Identify policies outlined in Chapter 100, Title II relating to general operational policies and environmental regulations of Adult Residential Care Homes operation by:

- Identifying general policies and the purpose of Chapter 100 Title II.
- Identifying policies related to written agreements with families, admission, transfer and discharge of residents and staffing requirements.
- Identifying policies and completing sample forms relating to fire, sanitation, safety and other environmental regulations.
. Complete sample client records and reports as required by Chapter 100, Title II.
... Complete sample financial records involving monetary transfers made by the care home on behalf of residents.
... Identify social, recreational, health and respite services available in the community for residents and operators.


## 15 Personal Care Attendant

Fall, Spring
6 hours lecture, 9 hours lab per week, eight weeks term Prerequisite: Current first aid and one man CPR certification; high school diploma, GED or 9.0 on Nelson Denny test. Training in home care attendant services.

Upon successful completion of this course, the student should be able to:
... Function as a member of the nursing team providing personal care attendant services to clients and their families.
... Perform simple, most basic level of personal care and limited nursing procedures to clients in the home.
. . . Carry out simple, selected home management activities.
... Communicale effectively with client, family, supervisor and agency.

16 Nurses' Aide (8)
Fall, Spring
Short-term course-8 weeks
A Certificate of Completion will be awarded when a sludent completes this course with a minimum grade of "C."
7.5 hours lecture, 22.5 lab per week

Prerequisites: Minimum grade equivalent of 9.0 on Nelson
Denny; current one man CPR certification
A course to teach simple nursing procedures in preparation for employment in hospitals, nursing and private homes, and clinics. Upon successful completion of this course, the student should be able to:
. . . Function in the role of the Nurses' Aide as a member of the health care team under the supervision of the LPN, RN or MD.
... Perform basic nursing and patient care skills safely.
. . . Perform selected therapeutic nursing care safely.
. . Implement effective communication skills.

## 18 Home Health Aide (4)

6 hours lecture, 9 hours lab per week, eight weeks term Prerequisite: Completion of a Nurses' Aide Certificate or commensurate education and experience
Training in home care attendant services. Previously identified concepts will be emphasized.
Upon successful completion of this course, the student should be able to:
... Function as a member of the nursing team providing home health aide services to clients and their families.
... Perform basic nursing skills safely to clients in the home.
... Communicate effectively with client, family, supervisor and agency.
... Carry out simple home management activities.

## 101 Nursing Perspectives (1)

1 hour lecture per week
Examines the role of the practical nurse.
Upon successful completion of this course, the student should be able to:
... Describe the role of the Licensed Practical Nurse on the health and nursing teams.
. . . Describe the factors that influence the practice of nursing.
... Identify the legal and ethical responsibilities of the practical nurse.

## 120 Fundamentals of Nursing (13)

8 hours lecture, 15 hours clinical per week
Prerequisite: Admission to the Practical Nursing Program

Corequisite: NURS 101; Credit or registration in BIOL 130
Training in nursing care of the adult patient in selected situations. Upon successful completion of this course, the student should be able to:
. Apply the fundamental concepts of health and illness as it affects man.
Observe, report and record pertinent signs, symptoms and nursing care accurately.
... Perform basic patient care skills safely.
... Implement care safely to a group of patients within the allotted time.
... Use basic communication concepts to interact effectively with patients, visitors and staff.
... Accurately calculate drug dosage.
... Demonstrate introductory knowledge of drug therapy.
. . . Perform safe therapeutic nursing care in selected situations.
. . . Function as a beginning member of the health care team under the supervision of the RN or MD.

## 122 Medical-Surgical Nursing (14)

8 hours lecture, 18 hours clinical per week
Prerequisites: NURS 101, 120, BIOL 130 with grades of C or above
Corequisite. Credit or registration in FAMR 230
Application of nursing care skills for medical-surgical patients. Upon successful completion of this course, the student should be able to:
... Apply knowledge and skills acquired from previous nursing and related courses.
. Perform safe nursing care for medical-surgical patients.
. Administer medications safely.
. Utilize mental health concepts while caring for patients in the acule care setting.


Nursing students prepare an IV.

126 Child Nursing (3)
6 hours lecture, 18 hours clinical per week for 4 weeks Prerequisiles: NURS 101, 120, 122, BIOL 130, FAMR 230 with grades of C or above
Application of nursing care skills for the child.
Upon successful completion of this course, the student should be able to:
... Apply knowledge and skills acquired from previous nursing and related courses in the care of the child.
... Assist health practitioners with meeting the emotional and physical needs of the child and family.
. . . Administer medications to a child safely.
. . . Provide safe nursing care for the child.

## 128 Perinatal Nursing (3)

6 hours lecture, 18 hours clinical per week for 4 weeks Prerequisites: NURS 101, 120, 122, BIOL 130, FAMR 230 with grades of "C " or above
Application of nursing care skills for the childbearing woman and her newborn, with consideration of all family members.
Upon successful completion of this course, the student should be able to:
... Apply knowledge and skills acquired from previous nursing and related courses.
... Describe the scope and aims of maternity nursing.
. . Perform safe nursing care for the woman during antepartum, labor and delivery and postpartum.
. . Perform safe nursing care for the newborn.

## 153W Basic Nursing Concepts (8)

3 hours lecture, 15 hours lab per week
Prerequisites: Acceptance into the Associate Degree Nursing Program and ENG 100 or 160, ZOOL 141, 141L, MATH 25 or higher, FAMR 230, high school or college chemistry. ZOOL 142, 142L, PSY 100 may be taken concurrently
Corequisite: NURS 158
This is a writing intensive course which focuses on identifying the basic needs of the total person and assisting clients requiring minimal adaptation to meet needs resulting from altered states of wellness. It introduces the roles of the nurse, the nursing process, basic nursing concepts, and beginning nursing skills. In introducing these concepts there is a special focus on the needs of the elderly.
Upon successful completion of this course, the student should be able to:
... Identify the facts and principles of biological, psychological, sociological, cultural and spiritual functioning to assist the adult client in satisfying basic unmet needs resulting from altered states of wellness.
. . . Describe the components of the nursing process in planning the care of the client with unmet needs resulting from altered states of wellness.
. . . Define therapeutic communication techniques used to determine the unmet needs of the adult client.
... Implement an existing teaching plan to assist the adult client in satisfying biological, psychological, sociological, cultural and spiritual needs.
... Organize basic care for an adult client.
... Explain the legal standards and ethical concepts which are used in the delivery of nursing care to the adult client.
Identify own responsibility for completion of prescribed learning activities in the delivery of nursing care to the adult client.

## 154 Family Health Nursing I (3)

6 hour lecture, 18 hours lab per week; 4 weeks
Prerequisite: NURS 156, 155 may be taken concurrently
This course focuses on the nursing process to assist the maternal and newborn client and their family in addressing needs imposed by the pregnancy and birth experience and the neonatal period.
This is a required course in the Associate Degree Nursing Program curriculum.
Upon successful completion of this course, the student should be able to:
... Apply the facts and principles of biological, psychological, sociological, cultural and spiritual functioning to intervene in the nursing care of the maternal and newborn client and the family with needs resulting from altered states of wellness..
. . Use the nursing process to intervene in the care of the maternal and newborn client and family with identified needs resulting from altered states of wellness.
... Demonstrate therapeutic communication techniques used to facilitate the interaction with the maternal and/or newborn client and the family.
... Implement a teaching plan for the maternal or newborn client and the family with identified learning needs.
... Participate as a member of the health care team in providing care to the maternal and newborn client and family.
... Apply knowledge of legal standards and ethical concepts used in the delivery of nursing care to the maternal and newborn client and family.
... Develop learning experiences in the delivery of nursing care to the maternal and newborn client and family based on own strengths and identified areas for improvement.

## 155 Child Health Nursing I (3)

6 hour lecture, 18 hours lab per week, 4 weeks Prerequisite: NURS 156, 154 may be taken concurrently This course focuses on the use of the nursing process in addressing needs of children and their families with commonly occurring conditions. An emphasis is placed on fostering normal growth and development.
This is a required course in the Associate Degree Nursing Program curriculum.
Upon successful completion of this course, the student should be able to:
... Apply the facts and principles of biological, psychological, sociological, cultural, and spiritual functioning to intervene in the nursing care of the pediatric client with needs resulting from altered states of wellness.
. . Use the nursing process to intervene in the care of thepediatric client with needs resulting from altered states of wellness.
... Demonstrate age-specific therapeutic communication techniques used in the care of the pediatric client.
... Implement a teaching plan for the promotion, restoration, and
maintenance of health of the pediatric client and family with identified learning needs.
... Participate as a member of the health care team in providing care to the pediatric client and family.
Apply knowledge of legal standards and ethical concepts in the delivery of nursing care to the pediatric client and the family.
Develop learning experiences in the delivery of nursing care to the pediatric client and the family based on own strengths and identified areas for improvement.

## 156 Adult Health Nursing I (5)

4 hours lecture, 18 hours lab per week, 8 weeks
Prerequisite: NURS 153W, 158; ZOOL 142, 142L; PSY 100
This course focuses on the use of the nursing process to assist clients to meet needs related to alterations in psychosocial, metabolic, circulatory, immunologic and respiratory functioning.
This is a required course in the Associate Degree Nursing Program curriculum.
Upon successful completion of this course, the student should be able to:
... Apply the facts and principles of biological, psychological, sociological, cultural and spiritual functioning to intervene in the nursing care of the adult client with needs resulting from altered states of wellness.
... Use the nursing process in the care of the client with needs resulting from altered states of wellness.
... Utilize communication techniques in the care of the adult client
. . . Contribute to a teaching plan which provides the client with information related to identified learning needs for the promotion, restoration and maintenance of health.
.. Apply organizational skills in caring for an adult client.
.. Apply knowledge of legal standards and ethical concepts in the delivery of nursing care to the adult client.
... Identify own strengths and areas for improvement in meeting prescribed learning goals while delivering nursing care to the adult client.

## 157 Adult Heaith Nursing II (5)

4 hours lecture, 18 hours lab per week, 8 weeks
Prerequisite: NURS 156; MICRO 130, 140 may be taken concurrently
This course focuses on the use of the nursing process to assist clients requiring moderate adaptation to meet alterations in elimination, metabolic, mobility, body integrity, neurosensory and reproductive functioning.
This is a required course in the Associate Degree Nursing Program curriculum.
Upon successful completion of this course, the student should be able to:
.. Apply the facts and principles of biological, psychological, sociological, cultural and spiritual functioning to intervene in the nursing care of adult clients with needs resulting from altered states of wellness.
... Use the nursing process in providing care to clients with needs resulting from altered states of wellness.
. . . Utilize communication techniques in the care of adult clients.
... Develop a teaching plan for the promotion, restoration and maintenance of health of adult clients with identified learning needs.
... Apply organizational skills in caring for adult clients.
... Apply knowledge of legal standards and ethical concepts in the delivery of nursing care to adult clients.
Develop learning experiences in the delivery of nursing care to adult clients based on own strengths and identified areas for improvement.

## 158 Issues and Trends in Nursing (1)

1 hour lecture per week
Prerequisites: Admission to the Associate Degree Nursing
Program and ENG 100 or ENG 160; MATH 25 or higher;
ZOOL 141, 141L; FAMR 230, ZOOL 142, 142L, PSY 100 may be taken concurrently
Corequisite: NURS 153W
This is a non-clinical course which introduces the student to the development of nursing and theethical and legal responsibilitiesof the nurse: communicator, member of the nursing profession, client teacher, and manager of client care.
This is a required course in the Associate Degree Nursing Program curriculum.
Upon successful completion of this course, the student should be able to:
. . . Describe factors which affect the client's ability to meet client needs within the health care system.
... Differentiate between the scope of practice of the RN, LPN and nurses' aide members of the health care team in the use of the nursing process to bring about the desired client outcomes.
... Discuss the legal and ethical importance of accurate and appropriate verbal and written communication between the nurse and the client, the family and members of the health care team.
... Identify the legal responsibilities of the nurse in providing teaching for the client, serving as a client advocate and obtaining consent in a way appropriate to the cultural, educational and personal needs of the client.

## 166W Nursing Transition (5)

3 hours lecture per week for 15 weeks, and 16 hours of lab per week for 7 weeks
Prerequisites: Completion of a practical nursing program and licensure as a practical nurse. ENG 100 or 160, FAMR 230, high school of college chemistry, MATH 25 or higher, ZOOL 141, 141L, 142 142L, PSY 100. MICRO 130 and 140 may be taken concurrently
Recommended Preparation: Employment as a licensed practical nurse in an acute care setting for at least one year
This course, which is writing intensive, exposes the LPN to the organizing framework of the Kapi'olani Community College Nursing Program. Emphasis is placed on the role of the registered nurse and the use of the nursing
process.
Nursing Transition further focuses on the use of the nursing process to assist clients to meet needs related to alterations in psychosocial, metabolic, circulatory, immunologic, respiratory, neurosensory, elimination, integumentary, musculoskeletal and
productive functioning.
NURS 166W is a required course in the Associate Degree Nursing Program curriculum.
Upon successful completion of this course, the student should be able to:
. . . Apply the facts and principles of biological, psychological, sociological, cultural and spiritual functioning to intervene in the nursing care of adult clients with needs resulting from altered states of wellness.
. . Use the nursing process in the care of clients with needs resulting from altered states of wellness.
. . Utilize therapeutic communication techniques in the care of adult clients.
... Develop a teaching plan for the promotion, restoration and maintenance of health of adult clients with identified learning needs.
. . . Apply organizational skills in caring for adult clients.
... Apply knowledge of legal standards and ethical concepts in the delivery of nursing care to adult clients.
. . . Develop learning experiences in the delivery of nursing care to adult clients based on own strengths and identified areas for improvement.

## 253 Mental Health/Psychiatric Nursing (5)

3 hours lecture, 2 hours lecture/lab and 15 hours of lab per week for 8 weeks
Prerequisites: NURS 154, 155, and NURS 157; or NURS 166W,
and MICRO 130, 140
Corequisite: PHARM 203
This course focuses on the use of the nursing process to meet the psychosocial needs of a culturally diverse population across the life span. Psychosocial needs include safety, love and belonging, esteem and recognition, self-actualization and aesthetic needs. Emphasis is placed on self-awareness, the health-illness continuum, therapeutic communication and the development of a therapeutic relationship with the client who has alterations in psychosocial functioning.
This is a required course in the Associate Degree Nursing Program curriculum.
Upon successful completion of the student should be able to:
... Assess the facts and principles of biological, psychological, sociological, cultural and spiritual functioning while providing nursing care to clients with needs resulting from altered states of psychosocial wellness.
... Use the nursing process when providing care to clients with needs resulted from altered states of psychosocial wellness.
... Communicate effectively using self therapeutically with clients who have needs resulting from altered states of psychosocial wellness.
. . . Analyze the effective use of the teaching/learning process for clients with altered states of psychosocial wellness.
. . . Identify critical aspects of the nurse's role in the management of the client with altered states of psychosocial wellness.
. . . Analyze legal standards and ethical concepts in the delivery of nursing care to the client.
. . . Assess self as a basis for the establishment of immediate and life long learning and professional development.

256 Adult Health Nursing III (5)
2 hours lecture, 12 hours clinical, 12 weeks
Prerequisiles: NURS 253, 264; PHARM 203, HUM Group II,
ANTH 200 may be taken concurrently
Corequisite: NURS 2.58
This course focuses on the use of the nursing process to assist patients requiring maximal adaptation to meet biological, psychological, sociological, cultural and spiritual needs. An emphasis is placed on actual or potential crisis resulting from altered states of wellness. This is a required course in the Associate Degree Nursing Program curriculum.
Upon successful completion of this course, the student should be able to:
... Evaluate and apply the facts and principles of biological, psychological, sociological, cultural and spiritual functioning while providing nursing care to clients with needs resulting from altered states wellness throughout the life span.
... Evaluate the effectiveness of care given using the nursing process and modify care for clients accordingly.
... Integrate therapeutic communication techniques in the care of clients from diverse cultural backgrounds across the life span in a variety of health care settings.
... Develop, communicate, implement and evaluate teaching plans for clients to foster health maintenance, prevent illness, and to promote recovery from illness.
... Incorporate time management, decision making and delegation skills in the care of a small group of clients.
... Integrate legal principles, nursing standards and ethical concepts into the management of the nursing care of clients. Assumes the role of a member of the profession by demonstrating responsibility and accountability for own practice, meeting learning needs, and participating in community service and professional activities.

## 258 Issues and Trends in Nursing II (1)

1 hour lecture per week
Prerequisite: NURS 253, 264; PHARM 203; ANTH 200 and a HUM Group II course may be taken concurrently Corequisite: NURS 256
This is a non-clinical course continuing the content of NURS 158. It focuses on the three roles of the nurse, legal and ethical responsibilities and transition from student to professional as the student becomes responsible and accountable for the student's practice as a registered nurse.
This is a required course in the Associate Degree Nursing Program curriculum.
Upon successful completion of this course, the student should be able to:
... Explore alternatives within the health care system (and within the individual's cultural group) which can be used to assist the client to meet needs resulting from altered states of wellness. As a member of the health care team, analyze the effectiveness of the nursing process in bringing about desired patient outcomes.
.. Demonstrate therapeutic communication stralegies which can be used to facilitate the nurse's role as the patient's advocate.
... Analyze the role of the nurse as a teacher of the client and of staff in the restoration of health and prevention of illness.
... Compare and contrast various nursing care delivery systems and the limitations and advantages of each.
... Synthesize options for an ethical dilemma in health care, addressing the unique needs of the involved parties and the laws and other rules of conduct which affect the possible responses.
. . . Create a personal development plan as a graduate entering the nursing profession.

## 264 Family Health Nursing II, III (4)

4 hours lecture, 12 hours lab per week, 8 weeks
Prerequisites: NURS 154, NURS 155, NURS 157, or NURS
166W and MICRO 130, MICRO 140
Corequisite: PHARM 203
This course focuses on the use of the nursing process to assist high risk childbearing families and pediatric clients and their families to meet needs related to alterations in wellness.
This is a required course in the Associate Degree Nursing Program curriculum.
Upon successful completion of this course, the student should be able to:
... Integrate the facts and principles of biological, psychological, sociological, cultural and spiritual functioning to provide nursing care for maternal, newborn and pediatric clients and their families to meet needs related to altered states of wellness.
... Analyze the use of the nursing process while assisting the high risk maternal, newborn and pediatric clients and their families to meet needs related to altered states of wellness.
... Evaluate the effectiveness of therapeutic communication techniques used when interacting with the maternal, newborn and/or pediatric clients and their families.
... Evaluate the effectiveness of the teaching/learning process for promoting, restoring and maintaining the health of maternal, newborn and pediatric clients and their families with identified learning needs.
... Manage the care of high risk maternal, newborn and pediatric clients and their families.
... Analyze legal standards and ethical concepts in the delivery of nursing care to the maternal, newborn and pediatric client and their families.
Analyze learning experiences in the delivery of nursing care of maternal, newborn and pediatric clients and their families based on self-established learning goals.

## OCCUPATIONAL THERAPY ASSISTANT (OTA)



100 Introduction to Occupational Therapy (4)
4 hours lecture per week
Prerequisite: Placement at ENG 100 or 160
Recommended Preparation: Satisfactory completion of ENG 100 or 160
Survey of the past, present and future of the profession of occupational therapy.
Upon successful completion of this course, the student should be
able to:
... Relate the early history of the profession.
... Discuss the role of the Certified Occupational Therapy Assistant and Occupational Therapist, Registered.
... Understand purposeful activity and its use as treatment in occupational therapy.
. . . Understand the treatment models used in occupational therapy.
... Understand the role and effect of third party payers on health care services.
... Describe the legal and ethical responsibilities of occupational therapy professionals.
... Participate with basic knowledge in public relation activities.
. . . Participate with basic skill in Service Management projects.
... Discuss visits to traditional and non-traditional health care facilities utilizing occupational therapy services and the impact of these visits on general informal knowledge base.

## 102 Physical Dysfunction (4)

Spring I

## 4 hours lectures

Prerequisites: Satisfactory completion of OTA first semester, BIOL 130, 130L, FAMR 230, or consent of instructor
The study of (1) physical disabilities and diseases most commonly referred to occupational therapy services and (2) the appropriate occupational therapy remediation theories and techniques.
Upon successful completion of this course, the student should be able to:
... Develop an understanding of the role of occupational therapy and the certified occupational therapy assistant in physical dysfunctional conditions.
Provide instruction in the theories and techniques of physical dysfunction treatment as practiced in occupational therapy.
... Define physical dysfunctional conditions most commonly seen in Occupational Therapy treatment setting.
... Develop intellectual/professional desire to learn.
Identify the role of the U.S. government in the Health Care industry.

105B, C, D Field Work level I (1)
Spring 1
4 hours lab per week
Prerequisites: Same as OTA 102
Sixty hours of practical experience and learning in an occupational therapy department/activity setting.
Upon successful completion of this course, the student should be able to:
... Demonstrate an understanding of the role of occupational therapy and/or certified occupational therapy assistant in the selected setting assigned coinciding with the student's present level of academic/social abilities and stressing one occupational component of either self care/productivity or leisure.

112 Critique: Field Work Level I (1)
Spring I
1 hour per week
Prerequisites: Satisfactory completion of OTA first
semester, BIOL 130, 130L, FAMR 230, or consent of instructor
Corequisite: OTA 102 L
Mandatory Cr/NC grading
Discussion groups related to fieldwork assignments, activities and experiences.

Upon successful completion of this course, the student should be able to:
... Explain the role of Occupational Therapist and the Certified Occupational Therapy Assistant at the facility assigned.
. . . Describe the treatment modalities and activity utilized.
... Generalize personal student experiences to clarify role and expectations.
121 Therapeutic Activities: Minor Crafts (2)
Fall I
1 hour lecture, 3 hours lab per week
Prerequisite: Admission to the OTA program
Therapeutic application of minor crafts most commonly used in occupational therapy departments.
Upon successful completion of this course, the student should be able to:
... Develop an awareness of the role of therapeutic modalities in occupational therapy.
. . . Provide instruction in basic skills in minor crafts.
... Develop awareness of materials, process, equipment, tools, storage and maintenance in each medium.
Develop awareness of therapeutic application of modalities to major dysfunctional categories.
... Develop intellectual curiosity.

## 123 Therapeutic Activities: Major Crafts (2)

4 hours lecture/lab per week
Prerequisites: Satisfaclory completion of OTA first semester Corequisite: OTA 102
Recommended Preparation: BIOL 130, 130L
Basic processes and skills of woodworking, weaving, leather and ceramics; their application in occupational therapy. Emphasis is on process, materials, teaching techniques, selection of purposeful activities and their significance as age-appropriate therapy and/or occupational task. Course relates to pediatric and adult major dysfunctional categories.
Upon successful completion of this course, the student should be able to:
... Identify the various materials and tools used; describe or demonstrate their application.
. . . Define the terms commonly associated with these therapeutic activities.
... Demonstrate basic technical skills or the processes most commonly used in these traditional therapeutic modalities.
. . . Demonstrate and discuss viable non-traditional alternatives to woodworking, weaving, leather and ceramics.
. . . Demonstrate and identify adaptations needed to modify or grade the activity for a wide range of disabilities.
... Discuss the therapeutic benefits of these activities throughout the age continuum being cognizant of a wide range of dysfunctional conditions.
. . . Discuss the role of purposeful activity and the influence of culture on the process of selecting a therapeutic task.
... Practice basic service management skills and observe appropriate safety precautions.

## 132 Life Skills Laboratory $I$ (2)

Spring I
1 hour lecture, 3 hours lab per week
Prerequisites: Satisfactory completion of OTA first semester.

Corequisites: OTA 101, 101L, 111, 121; BIOL 130L; FAMR 230 Identification of life skills from infancy through aging with emphasis on the use of techniques and devices used in Activities of Daily Living and transfer. Includes techniques of teaching, task analysis as applied in occupational therapy practice.
Upon successful completion of this course, the student should be able to:
. Develop an understanding of the importance of life skills and their influence on effective human function.
Develop an understanding of occupational therapy practice in the area of life skills.
Be able to provide instruction in principles, theory and practice of life skills habilitation and rehabilitation.
... Develop intellectual curiosity.
203 Pediatric Disabling Conditions (4)
Fall II
3 hours lecture, 2 hours lecturellab per week
Prerequisite: Satisfactory completion of First year of OTA
program
Corequisite: 3 rd semester OTA courses
The study of physical and psycho-social disorders most commonly referred to occupational therapy in a pediatric setting and the occupational therapy remediation theories and techniques utilized.
Upon successful completion of this course, the student should be able to:
.. Comprehend current knowledge concerned with the etiology, course of disease/disability process, medical impact and future implications associated with the conditions commonly referred to occupational therapy in a pediatric setting.
... Contribute to the evaluation and planning of an occupational therapy program applicable to the needs of pediatric clients from the age of 0-20.
... Select basic, age appropriate, purposeful activities in accordance with the needs of case histories and clients as described and role-played in class.
... Demonstrate competency in a basic feeding technique.
... Demonstrate competency in executing a gross motor program.
... Demonstrate competency in executing a minimum of one basic evaluation test used by occupational therapists in the school setting.
... Understand the role of the parent in the Individual Education Program process as well as the role of the parent in all occupational therapy goal setting.
. . Understand and be able to communicate objectively to clients' parents and significant others, being mindful of the cultural influences upon the family and occupational therapy treatment. Understand the role of the Occupational Therapist, Registered and the Certified Occupational Therapy Assistant in the pediatric setting and ethically, safely adhere to the basic knowledge level of the Certified Occupational Therapy Assistant.
. . . Identify at least two models of occupational therapy treatment used in pediatrics.
... Use appropriate health/medical terminology.

204 Psycho-social Dysfunction (4)
Spring II
4 hours lecture per week
Prerequisite: Satisfactory completion of third semester of OTA program

## Corequisile: Fourth semester OTA courses

The study of psycho-social dysfunctions most commonly referred to occupational therapy services and occupational therapy remediation theories and techniques.
Upon successful completion of this course, the student should be able to:
... Develop an understanding of the role of the occupational therapy assistant in the treatment of psycho-social dysfunction.
... Provide instruction in the theories and techniques of psychosocial dysfunction treatment as practiced in occupational therapy.
... Define psycho-social dysfunction conditions commonly referred to occupational therapy settings.
... Identify and describe basic influences contributing to mental health including the impact of culture and environmental conditions.
. . . Delineate occupational therapy practice (evaluation, treatment planning, and implementation of age-appropriate activities, modalities, and teaching methods) for psycho-social dysfunction.

205B, C, D Field Work Level I (1)
Fall II, Spring II
4 hours lab per week
Prerequisite: Satisfactory completion of first year of OTA
program, or consent of instructor
Corequisite: OTA 213
Sixty hours of practical experience and learning in an occupational therapy departmentactivity setting.
Upon successful completion of this course, the student should be able to:
... Demonstrate an understanding of the role of occupational therapy and/or certified occupational therapy assistants in the selected setting assigned coinciding with the student's present level of academic/social abilities and stressing one occupational component of either self care/productivity or leisure.

## 213 Critique: Field Work Level I (1)

Fall II
1 hours per week
Prerequisite: Satisfactory completion of first year of OTA
program, or consent of instructor
Corequisite: OTA 203L
Mandatory CRNC grading
Discussion group related to field work assignments, activities and experiences.
Upon successful completion of this course, the student should be able to:
. . Compare present student roles with experiences of the first semester student.
... Constructively criticize student behaviors and activities.
... Question origin of feelings and attitudes revealed in class discussion.

## 214 Critique: Field Work Level I (1)

Spring II
1 1/2 hours per week for 12 weeks
Prerequisite: Satisfactory completion of third semester of OTA
program, or consent of instructor
Mandalory CR/NC grading
Discussion related to fieldwork assignments, activities and experiences.

Upon successful completion of this course, the student should be able to:
. . . Generate constructive discussion of student roles in the fieldwork setting.
.. Help second semester students design activity projects as requested.
... Summarize feelings expressed.

## 234 Life Skills Laboratory II (2)

Spring II
1.5 hours lecture, 4.5 hours lab per week for 12 weeks

Prerequisile: Satisfactory completion of third semester of OTA program, or consent of instructor
Work simplification techniques and splint-making as they relate to occupational therapy/patients.
Upon successful completion of this course, the student should be able to:
... Develop an understanding of the importance of life skills and their influence on effective human function.


Photo by Bryan Sekiguchi
At Family Day, OTA students showed the projects they have created to stimulate hand and eye coordination.
... Develop an understanding of occupational therapy practice and its role in the area of life skills.
Provide instruction in the principles of design and construction of splints and other adaptive devices.
Provide general instruction in work simplification: home/ work/eisure.

253 Therapeutic Interpersonal Skills (3)
Fall II
3 hours lecture per week
Prerequisite: Satisfactory completion of first year of OTA program, or consent of instructor
Identification, discussion and application of diverse communication techniques useful in an occupational therapy group setting.
Upon successful completion of this course, the student should be able to:
. . Develop an understanding of the role of therapeutic interpersonal relations and group dynamics in occupational therapy.
... Develop awareness of therapeutic interaction and its influence on relationships with others.
. . . Foster greater skills in interpersonal relationships.
. . Develop awareness of verbal and non-verbal communication.
... Provide instruction in the process and techniques of group dynamics as needed in clinic settings.
. . Develop intellectual curiosity.

256 Role of Occupational Therapy in the Community (3) 3 hours lecture per week
Prerequisite: enrollment in OTA 4th semester or consent of instructor
This course explores the impact of Occupational Therapy on community health; demonstrates and provides experience in a variety of community roles appropriate to a career in Occupational Therapy; and develops skills needed to further wellness in the community.
Upon successful completion of this course, the student should be able to:
... Discuss current theories of aging.
... Compare and contrast the normal signs of aging with those displayed by the fragile or chronically ill aged person.
... Evaluate an existing Activity Program and discuss its strengths and weaknesses.
. . . Design an activity for a group of well seniors using occupation/ activity processes to analyze interests and abilities.
... Modify an existing Activity Program using Occupational Therapy basics.
... Demonstrate concrete and specific knowledge of the Hawai' $i$ State legislative system, Honolulu City Council and Neighborhood Boards.
... Experience the legislative system of government by participating in the process.

260 Occupational Therapy Field Work Level II (3)
Spring II 40 hours per week for 5 weeks in spring semester Prerequisite: Completion of academic OTA program Five weeks of full time performance displaying entry level OTA skills in two different occupational therapy settings.
Upon successful completion of this course, the student should be able to:
... Provide in-depth experience in the practice of occupational therapy.
... Expand understanding of the role of occupational therapy and the certified occupational therapy assistant in the treatment of clients.
. . . Further develop intellectual and professional curiosity.
. . . Further the sense of civic and professional responsibility.
261 Occupational Therapy Field Work Level II (3) Summer II 40 hours per week for 5 weeks
Prerequisite: OTA 260
Five weeks of full time performance displaying entry level OTA skills in two different occupational therapy settings.
Upon successful completion of this course, the student should be able to:

Demonstrate entry-level competence as an occupational therapy assistant.

OTA 260 and 261: Total of 10 weeks meeting American Occupational Therapy Association Essentials


201 Science of the Sea (3) NS3
3 hours lecture per week
Prerequisites: Satisfactory completion of MATH 25 or MATH 26D or high school algebra
A survey of the science of the ocean involving the study of the geological, physical, chemical and the biological properties of the ocean.
Upon successful completion of this course, the student should be able to:
. . Use the metric system and scientific notation.
... Explain the concept of density and its regulatory effects on the circulation of air and water systems.
... Describe all major features of the ocean floor.
... Explain using examples how the plate tectonics theory accounts for current locations of continents, earthquakes, mountain building island chain creation, and seafloor features.
... Account for, in chemical terminology, the anomalous properties of seawater.
. . . Describe the composition of seawater and methods of analyzing salinity.
... Describe the interactions between atmosphere and ocean in terms of heat and water budgets and the effects these interactions have on temperature and salinity of ocean waters.
. . . Classify the major ocean currents.
... Describe the forces responsible for surface currents, deep ocean currents, geostrophic currents, Ekman transport of surface waters and tides.
... Describe the relationships between all variables used in describing ocean waves.
... Explain the physical factors which influence life in the oceans.
... Explain the parameters used in quantifying bio-productivity in the oceans.

## 20 Keyboarding (3)

## 3 hours lecture per week

The student will learn to operate the computer keyboard and tenkey pad by touch, learn basic information processing vocabulary and use a microcomputer for a variety of common applications such as word processing, database management, payroll and inventory control.
Upon successful completion of this course, the student should be able to:


#### Abstract

Develop keyboarding skills for entering alphanumeric data on information processing equipment for the primary purposes of obtaining, inputting, processing and communicating information. Understand basic information processing vocabulary as well as concepts used in inputting and retrieving information. . . . Use the microcomputer proficiently and demonstrate its many applications. . . . Demonstrate the ability to follow oral and written instructions. ... Key in entries from a variety of source documents and proofread final copy for accuracy.


## 21 Keyboarding/Formatting (3)

## 3 hours lecture per week

A basic course which develops keyboarding by touch on the computer. Students will use word processing software to produce business letters with envelopes, memos, reports with footnotes/ endnotes, outlines, and tabulated material. By the end of the semester, a minimum speed of 25 net words per minute with no more than one uncorrected error is required.
Upon successful completion of this course, the student should be able to:
. . Demonstrate keyboard mastery and proper use of a computer with correct word processing techniques.
... Demonstrate an understanding of basic word processing terminology.
... Use word processing equipment to produce memoranda, letters with envelopes, reports with endnotes, outlines and tabulated material from typewritten, handwritten and roughdraft material.
. . Key straight copy at a minimum of 25 net words per minute with no more than one uncorrected error.
... Key mixed copy at a minimum of 10 net words per minute for one minute with no more than one uncorrected error.
. . . Demonstrate proper use of basic typewriter machine parts.

## 22B Keyboarding-Skillbuilding (2)

4 hours lecture per week, 8 weeks
Prerequisite: OAT 20 or OAT 21 or equivalent
Upon successful completion of this course, the student should be
able to:
. . . Demonstrate keyboard mastery of the alphabet, numbers and symbols on an information processor.
... Use various skill-building strategies to improve keying skills.

22C Keyboarding-Documents (2)
4 hours lecture per week, 8 weeks
Prerequisite: OAT 20 or OAT 21 or 25 nwpm or Department Chair approval
Introduction to basic word processing and computer usage. Introduction to memoranda, personal and business letters, manuscripts with footnotes, and tables from keyed, handwritten, and roughdraft material.
Upon successful completion of this course, the student should be able to:
... Demonstrate an understanding of basic word processing and computer usage.
. . . Produce mailable documents under timed conditions while using word processing software that meet industry's standards.
... Demonstrate proficiency in keying memoranda, personal and business letters, manuscript with footnotes, and tables from keyed, handwritten, and rough-draft material.

## 23 Document Formatting (3)

3 hours lecture/lab per week
Prerequisite: OAT 21 or OAT 22 and 25 net words per minute or Department Chair approval
Development of proficiency in keyboarding skill. Use of word processing software to produce business letters, memos, reports, tables and rough-draft materials. Minimum speed of 35 net words per minute with no more than one uncorrected error is required by the end of the semester.
Upon successful completion of this course, the student should be able to:
... Demonstrate proficiency in the mastery of the keyboard by increasing keying speed and improving accuracy.
... Demonstrate an understanding of word processing terminology and functions such as widow/orphan protection, spell check, flush right and footnote.
... Use word processing software to upgrade production skill level and use appropriate language skills in creating letters, memos, reports, tables, rough-draft materials and form letters used in businesses.
. . . Use a typewriter to prepare various types of business forms.
. . Key straight copy at the rate of at least 35 net words per minute for five minutes with no more than one uncorrected error at least three times.
. . Key mixed copy at the rate of at least 15 net words per minute for one minute with no more than one uncorrecled error at least three times.

## 30 Information Processing (3)

3 hours lecture/lab per week
Prerequisite/Corequisite/Recommended Preparation: ENG 51B, C, D, OAT 23, OAT 80 or approval by Department Chair
An advanced course in word/information processing. Word processing software, a microcomputer and machine transcriber are
used to produce a variety of business documents and forms. An introduction to desktop publishing is included in this course. A minimum keying speed of 45 net words per minute with no more than one uncorrected error is required by the end of the semester. Upon successful completion of this course, the student should be able to:
... Demonstrate an understanding of advanced word processing terminology and functions.
... Use word processing software to produce mailable documents from recorded dictation, handwritten copy and/or typewritten drafts in appropriate formats as required in general and specialized fields.
... Demonstrate an understanding of basic desktop publishing terminology and functions.
... Use desktop publishing software to produce mailable documents and forms from recorded dictation, handwritten copy and/or typewritten drafts.
. . . Demonstrate the ability to operate the machine transcriber.
... Type straight copy at a minimum of 45 net words per minute for five minutes with no more than one uncorrected error.

## 31 Information Processing Application (3)

Spring
1 hour lecture, 4 hours lecturellab per week
Prerequisites: OAT 30 or approval of Department Chairperson
Students will be introduced to two or three different software programs and learn how to integrate information form these various types of application programs. A minimum keying speed of 50 net words per minute with no more than one uncorrected error is required by the end of the semester.
Upon successful completion of this course, the student should be able to:
... Demonstrate knowledge of the document workflow in an automated office.
. . . Learn two or three different software programs.
... Use word processing equipment and integrate two or three software programs to produce mailable documents in appropriate formats.
... Key straight copy at a minimum of 50 net words per minute for five minutes with no more than one uncorrected error.

## 33 Principles of Office Automation (3)

3 hours lecture per week
Upon successful completion of this course, the student should be able to:
. . . Understand and use office automation terminology.
... Recite an overview of the development of computers and word processors.
... Recognize the continuing evolution from the traditional to the integrated office and beyond.
... Outline the impact of the systems approach to office organization, office systems integration, and the paper flow cycle and its importance to today's businesses and industries.
... Explain the uses of available software applications, electronic networks and data bases.
... Describe the variety of hardware utilized in office automation systems and how these systems are integrated in the modern
office.
Assess and examine the health, psychological, and sociological concerns of those who use office automation equipment.

## 38 Spreadsheet and Database (3)

3 hours lecture per week
Prerequisites: OAT 21, or OAT 20 or equivalent and BUS 55
Upon successful completion of this course, the student should be able to:
. Enter alpha/numeric data on information processing equipment for the primary purposes of inputting, obtaining and processing information in a spreadsheet.
... Understand basic functions of a spreadsheet program.
... Become proficient in designing a form on a spreadsheet.
... Enter alpha/numeric data on information processing equipment for the primary purposes of inputting, obtaining, and processing information in a database.
.. Understand basic functions of a database program.
. . . Become proficient in retrieving information from a data bank.

## 40B Filing (2)

2 hours lecture per week
Upon successful completion of this course, the student should be able to:
. Apply indexing rules of filing.
... Process and file records using the alphabetic, numeric, geographic and subject systems.
... Identify and use filing supplies and equipment.

40C Records Management (1)
1 hour lecture per week
Prerequisite: OAT 40B
Upon successful completion of this course, the student should be able to:
... Demonstrate a working knowledge of records management procedures enabling ease of entry to positions requiring such skills.

## 42 Introduction to Office Organization (2)

## 2 hours lecture per week

Upon successful completion of this course, the student should be able to:
... Plan a day's work schedule according to priority, given a set of jobs to do.
... Demonstrate efficiency in performing clerical tasks following a logical sequence of steps.
... Use appropriate references in order to research a given sel of questions.
... Prepare an office FACT BOOK using the appropriate subject headings necessary to maintain such an office desk reference.
. . . Identify unsafe conditions and unsafe acts which contribute to office accidents and seek measures to prevent such accidents from occurring.
.. Establish a calendar and reminder system to help keep appointments and meet deadlines.
... Design a job strategy for promotion and success on the job and be able to communicate requests for transfer or resignation.
. . . Demonstrate effective listening skills in following oral instructions.
... Plan a conference and meeting and be able to prepare minutes of the meeting.
... Greet visitors and clients skillfully, applying learned skills and principles of office etiquette.
. . . Demonstrate understanding of ergonomic factors in the office environment.

## 43 Professional Development (3)

3 hours lecture per week
Upon successful completion of this course, the student should be able to:
. . . Demonstrate business-like appearance of office personnel.
Demonstrate conduct for improved interpersonal relationships.
... Display understanding of the social competencies including effective communications, group dynamics, and personality strengths and weaknesses.
. . Undergo a job interview successfully.

## 43B Telephone and interview Techniques (2)

2 hours lecture per week
Upon successful completion of this course, the student should be able to:
. . . Demonstrate a pleasant telephone personaiity.
... Demonstrate efficient use of the telephone and telephone personality.
. . . Identify the basic telephone services and equipment.
. . Seek employment effectively.

## 50 Clerical Office Procedures (4)

2 hours lecture, 4 hours leclure/lab per week
Prerequisite: OAT 23 or concurrent enrollment
Upon successful completion of this course, the student should be able to:
... Perform duties common to most clerical positions.
. . . Perform work more efficiently.
... Demonstrate good work habits including integrity, discretion, dependability, follow-through, excellent attendance, accuracy, neatness, cooperation, loyalty and ability to follow oral and written instructions.

## 52 Administrative Office Procedures (4)

2 hours lecture, 4 hours lecturellab per week Prerequisites: OAT 30, or concurrent enrollment, OAT 64 Upon successful completion of this course, the student should be able to:
. . . Discuss the secretary's role and responsibilities in today's general and specialized fields.
... Integrate shorthand/transcription skills, typewriting, business communications and research skills, and other skills and knowledge needed to handle on-the-job situations.
... Assess personal and technical competencies essential for initial job entry.
53 Office Simulation (4)
Spring

## 2 hours lecture, 4 hours lecture/lab per week <br> Prerequisites:

Clerical Certificate majors: OAT 23, 40B, 43 and MATH 1
A.S. Degree Majors: OAT 23, 40B, 43, MATH 1 and ENG 55

Upon successful completion of this course, the student should be able to:
... Solve office-type problems by adapting and applying past learnings, knowledge, skills and efficient utilization of available, modern office equipment.
. . . Understand and appreciate the office worker's role in the total system of a business office.
.. . Function in an efficient and businesslike manner.
. . . Initiate simple management decisions.
. . . Communicate clearly in verbal and written communications common in the business office.
. . . Incorporate peer/supervisor's evaluations and self-assessment of strengths and weaknesses in order to secure a satisfactory job commensurate with one's abilities.
. . . Make a wise job choice as a result of a job market study and the assessment of personal interests and qualifications.

54 Legal Office Procedures I (4)
Fall
2 hours lecture, 4 hours lecture/lab per week
Prerequisite: OAT 30 (Information Processing)
Corequisites: ENG 55 or higher, LAW 30 or LAW 200
Upon successful completion of this course, the student should be able to:
... Understand and perform duties of legal office workers.
... Analyze and type real estate documents, business incorporation papers, wills, and other non-court instruments.

55 Legal Office Procedures II (4)
Spring
3 hours lecture, 3 hours lab per week
Prerequisite: OAT 54 or consent of instructor
Upon successful completion of this course, the student should be able to:
. . . Compose and type letters for the attorney's signature.
. . . Apply principles for preparing legal documents for litigation.
. . . Identify the functions of the various courts.
. . . Identify the basic procedures involved in all kinds of litigation.
... Define legal terminology involved in litigation.
. . . Type documents in connection with probate, all phases of litigation, family court cases and appeals.

## 56 Court Reporting Office Procedures (3)

3 hours lecture per week
Prerequisites: OAT 73
Upon successful completion of this course, the student should be able to:
... Understand the ethical principles and practices used by court reporters.
... Apply the legal procedures used by the judiciary.
60 Beginning Symbolic Shorthand (5)
4 hours lecture, 2 hours lecturellab per week

Prerequisite: OAT 21 or equivalent
Corequisite: ENG 51B, C, D, OAT 80
Upon successful completion of this course, the student should be able to:
... Demonstrate proficiency in reading and writing shorthand outlines.
. . Take new-material dictation (official) at a minimum of 40 words per minute for three minutes and transcribe with a minimum of 95 percent accuracy.

## 60B Beginning Symbolic Shorthand I (2)

1 hour lecture, 2 hours lecture/lab per week
Prerequisite: OAT 21 or equivalent
Corequisite: ENG 51 B, C, D; OAT 80
Upon successful completion of this course, the student should be able to:
. . . Demonstrate a knowledge of Gregg shorthand theory.
... Take material dictation at a minimum of 40 words per minute for two minutes and transcribe with a minimum of 95 percent accuracy.

60C Beginning Symbolic Shorthand II (3)
3 hours lecture per week
Prerequisite: OAT 60B
Upon successful completion of this course, the student should be able to:
... Demonstrate proficiency in reading and writing shorthand oullines.
.. Take new-material dictation at a minimum of 40 words per minute for three minutes and transcribe with a minimum of 95 percent accuracy.

## 61 Skill Building, Symbolic (4)

2 hours lecture, 4 hours lecture/lab per week
Prerequisiles; OAT 60 or equivalent and OAT 21 or equivalent Corequisite; ENG 51B, C, D, OAT 80
Upon successful completion of this course, the student should be able to:
. . . Read and write shorthand outlines fluently.
. . . Transcribe from shorthand notes.
... Take unpreviewed new-material dictation.

62 Intermediate Symbolic Shorthand (4)
2 hours lecture, 4 hours lecture/lab per week
Prerequisites: OAT 60 or equivalent and OAT 21 or equivalent, or consent of instructor
Corequisites: ENG 57 B, C, D, OAT 80
Upon successful completion of this course, the student should be able to:
... Integrate English, shorthand and typewriting skills to produce transcripts in mailable formats applying the rules of punctuation, capitalization, number usage, word division, and word usage.
... Take unpreviewed new-material dictation at a minimum of 60
words per minute for three minutes and transcribe with a minimum of 95 percent accuracy.

## 64 Advanced Symbolic Shorthand (4)

## 2 hours lecture, 4 hours lecture/lab per week

Prerequisite: OAT 62 or equivalent
Upon successful completion of this course, the student should be able to:
... Demonstrate the ability to construct shorthand outlines under the stress of dictation.
. . . Produce mailable transcripts under the stress of time using the basic elements of transcription: English usage, grammar, punctuation, capitalization, number usage, spelling, word division, word usage and acceptable formats.
... Take unpreviewed new-material dictation (official) at a minimum of 80 words per minute for three minutes and transcribe with a minimum of 95 percent accuracy.

## 65 Executive Symbolic Shorthand (4)

2 hours lecture, 4 hours lecture/lab per week
Prerequisite: OAT 62 or equivalent
Upon successful completion of this course, the student should be able to:
... Demonstrate the ability to construct shorthand outlines under the stress of dictation.
Produce mailable transcripts under the stress of time using the basic elements of transcription: English usage, grammar, punctuation, capitalization, number usage, spelling, word division, word usage, and acceptable formats.
. . . Take unpreviewed new-material dictation (official) at a minimum of 100 words per minute ( wpm ) for three minutes and transcribe with a minimum of 95 percent accuracy.
... Demonstrate the ability to take notes of meetings and transcribe in acceptable format.

## 66B Beginning Shorthand, Alpha I (2)

2 hours lecture per week

## Prerequisite; OAT 20 or 21 or Department Chairperson's

 approvalIntroduces reading and writing alphabetic shorthand theory. Develop speed in taking dictation and transcribing. Take newmaterial dictation (official) at a minimum of 40 words per minute for three minutes and transcribe with a minimum of 90 percent accuracy.
Upon successful completion of this course, the student should be able to:
... Use a fast and legible writing system that will enable students to take notes from readings and lectures.
...Take new-material dictation (official) at a minimum of 40 words per minute for three minutes and transcribe with a minimum of 90 percent accuracy.

66C Beginning Shorthand, Alpha II (2)
2 hours lecture per week
Prerequisite: OAT 20 or 21, and OAT 66B, or Department Chairperson's approval
Further develops reading and writing alphabetic shorthand theory. Integrates English, alpha shorthand, and keyboarding skills to
produce transcripts in acceptable formats while incorporating all grammar rules. Take new-material dictation (official) at a minimum of 40 words per minute for three minutes and transcribe with a minimum of 95 percent accuracy while incorporating all grammar rules during the transcription.
Upon successful completion of this course, the student should be able to:
... Demonstrate proficiency in reading and writing abbreviated outlines.
. . . Produce acceptable transcripts of new material dictated at a minimum of 40 words per minute.
.. Take new-material dictation (official) at a minimum of 40 words per minute for three minutes and transcribe with a minimum of 95 percent accuracy.

68 Intermediate Shorthand, Alpha (4)
2 hours lecture and 4 lecture/lab per week
Prerequisite: OAT 66C or Department Chairperson's approval Integrate English, shorthand and transcription skills to produce transcripts in mailable formats while applying the rules of punctuation, capitalization, number usage, word division and word usage. Take unpreviewed new-material dictation at a minimum of 60 words per minute for three minutes and transcribe with a minimum of 95 percent accuracy.
Upon successful completion of this course, the student should be able to:
.. Integrate English, shorthand, and transcription skills to produce transcripts in mailable formats while applying the rules of punctuation, capitalization, number usage, word division, and word usage.
. . . Take unpreviewed new-material dictation at a minimum of 60 words per minute for three minutes and transcribe with a minimum of 95 percent accuracy.

## 70 Advanced Shorthand, Alpha (4)

2 hours lecture and 4 lecture/lab per week
Prerequisite; OAT 68 or Department Chairperson's approval
Construct shorthand under the stress of dictation. Produce mailable transcripts under the stress of time using the basic elements of transcription. Take unpreviewed new-material dictation (official) at a minimum of 80 words per minute for three minutes and transcribe with a minimum of 95 percent accuracy.
Upon successful completion of this course, the student should be able to:
. . . Demonstrate the ability to construct shorthand under the stress dictation.
Produce mailable transcripts under the stress of time using the basic elements of transcription: English usage, grammar, punctuation, capitalization, number usage, spelling, word division, word usage and acceplable formats.
Take unpreviewed new-material dictation (official) at a minimum of 80 words per minute for three minutes and transcribe with a minimum of 95 percent accuracy.

## 71 Machine Shorthand Theory 1 (5)

4 hours lecture, 2 hours lecture/lab per week
Prerequisites: Type at 45 words per minute for 5 minutes with no
more than 5 errors, qualification for ENC 100 or 160
Upon successful completion of this course, the student should be able to:
. . Demonstrate a knowledge of machine shorthand theory by writing machine shorthand with accurate automatic responses and reading from machine shorthand notes.
. . . Transcribe machine notes in acceptable formats.

## 72 Machine Shorthand Theory II (4)

2 hours lecture, 4 hours lecturellab per week
Prerequisites: OAT 71 or equivalent
Upon successful completion of this course, the student should be able to:
. . . Demonstrate a knowledge of machine shorthand theory by writing machine shorthand with accurate automatic responses and reading from machine shorthand notes.
Take familiar-material dictation at a minimum of 60-80 words per minute for three minutes with a minimum of 95 percent accuracy.
... Transcribe shorthand notes in acceptable formats.

## 73 Machine Shorthand Theory III (4)

2 hours lecture, 4 hours lecturellab per week
Prerequisite: OAT 72 or equivalent
Upon successful completion of this course, the student should be able to:
... Demonstrate a knowledge of machine shorthand theory by writing machine shorthand with accurate automatic responses and reading from machine shorthand notes.
Take familiar-material dictation at a minimum of 80-100 words per minute for five minutes with a minimum of 95 percent accuracy. Transcribe machine notes in acceptable formats.

## 74 Machine Shorthand Skill Building I (4)

2 hours lecture, 4 hours lecture/lab per week
Prerequisites: OAT 73 or equivalent
Upon successful completion of this course, the student should be able to:
... Demonstrate a knowledge of machine shorthand theory by writing machine shorthand with accurate automatic response.
Demonstrate use of the stenograph machine in taking verbatim dictation of material found in literary material at 100 to 140 words per minute.
... Demonstrate familiarity in the use of business terminology.
... Read and transcribe shorthand notes accurately, and present them in acceplable formats within a given time frame.

## 75 Machine Shorthand/Skill Building II (4)

2 hours lecture, 4 hours lecturellab per week
Prerequisites: OAT 74 or equivalent
Upon successful completion of this course, the student should be able to:
... Demonstrate a knowledge of machine shorthand theory by writing machine shorthand with accurate automatic response.
. . . Demonstrate use of the stenograph machine in taking verbatim dictation of material found in literary and jury charge material at

140 to 180 words per minute.
... Demonstrate familiarity in the use of business and legal terminology.
... Read and transcribe shorthand notes accurately and present them in acceptable formats within a given time frame.

## 76 Machine Shorthand/Skill Building III (4)

2 hours lecture, 4 hours lecture/lab per week
Prerequisites: OAT 75 or equivalent and type at 65 words per minute for 5 minutes with no more than 5 errors
Upon successful completion of this course, the student should be able to:
. . . Demonstrate a knowledge of machine shorthand theory by writing machine shorthand with accurate automatic response.
. . . Demonstrate use of the stenograph machine in taking verbatim dictation of material found in literary, jury charge, and two-voice testimony material at 140 to 160 words per minute.
... Demonstrate familiarity in the use of business and legal terminology.
. . Read and transcribe shorthand notes accurately and present them in acceptable formats within' a given time frame.

## 80 Machine Transcription I (2)

2 hours lecture per week
Prerequisites: OAT 21 or equivalent and qualify for/or completion of ENG 51 B, C, D.
Upon successful completion of this course, the student should be able to:
... Demonstrate proficiency in operating transcribing equipment.
... Transcribe material in acceptable business correspondence format.
. . . Proofread and edit documents.

## 81 Machine Transcription II (3)

Fall
3 hours lecture per week
Prerequisites: OAT 80 or equivalent, OAT 30
Upon successful completion of this course, the the student should be able to:
... Demonstrate the efficient operation of transcribing equipment and its operating features.
. . . Demonstrate the ability to transcribe in mailable format for dictated material on a word processor.

## 83 Medical Transcription (3)

3 hours lecture per week
Prerequisite: OAT 80 or equivalent; HLTH 21B, 21C or concurrent enrollment; ENG 50 or $51 B, C, D$.
Upon successful completion of this course, the student should be able to:
... Attain a level of competency in medical transcription and qualify forinitial position in a clinic, a hospital or a doctors office.
Identify a wide variety of new careers once the student has become proficient as a medical transcriptionist.

93V Cooperative Education (3-4)
Spring
1 hour lecture, 4-6 hours lecture/lab per week. Hours variable.
Prerequisite: OAT 21 or equivalent
Upon successful completion of this course, the student should be able to:
... Obtain related paid work experience in the business community which correlate with the student's major area of study and the skills and knowledge acquired in the classroom.
... Develop characteristics necessary to successfully hold a job in the present business world - sense of responsibility, independent judgment, growth in maturity and human relations.


## 103 Introduction to Pharmacology (1) <br> 1 hour lecture per week <br> Prerequisite: BIOL 22, 130, or ZOOL 141 <br> Recommended Preparation: HLTH 150 and 110

Scope of pharmacology including definitions, drug standards, classification, common drugs within each classification; drugs commonly used in prevention, diagnosis, and treatment of disease (action, side effects, related responsibilities); legislation.
Upon successful completion of this course, the student should be able to:
... Identify major drug classifications and common drugs within each classification.
... Identify drugs commonly used in the prevention, diagnosis, and treatment of disease (action, side effect, and related responsibilities).
... Interpret abbreviations and symbols accurately as they relate to drug administration.
. . Recognize major factors which affect drug action.
... Become familiar with standards and legislation as they relate to drugs and their administration.
... Use appropriate references for oblaining drug information.

## 104 Pharmacological Treatment of Disease (1)

Prerequisites; BIOL 22, 130 or ZOOL 141
Corequisite: PHARM 103
Recommended Preparation: HLTH 150 and HLTH 110
Survey of medications commonly used in the prevention, diagnosis, and treatment of diseases, with discussion of pharmacological action, side effects and related responsibilities.
Upon successful completion of this course, the student should be able to:
... Identify major drug classifications and common drugs within each classification.
... Identify drugs commonly used in the prevention, diagnosis and treatment of disease (action, side effect and related responsibilities).
... Interpret abbreviations and symbols accurately as they relate to drug administration.
... Recognize major factors which affect drug action.
... Become familiar with standards and legislation as they relate to drugs and their administration.
... Use appropriate references for obtaining drug information.

## 105 Administration of Medications (1)

2 hours lecture/lab per week
Prerequisites: BIOL 22, 130, or ZOOL 141
Corequisites: PHARM 103, 104
Recommended Preparation: HLTH 150 and 110
Application of basic concepts required for medication administration: choice of equipment, proper technique, hazards and complications, patient care, satisfactory performance of intramuscular, subcutaneous, and intradermal injections; preparation and administration of oral medication, immunizations.
Upon successful completion of this course, the student should be able to:

Apply the basic concepts required for medication administration.
. . Solve conversion problems within and among the following systems: household, metric, and apothecary.
. . Interpret abbreviations and symbols accurately as they relate to drug administration.
. . . Solve drug calculation problems.
. . . Apply the specific rules of safe drug administration.
... Correctly administer oral, eye, ear, nose, and parenteral drugs in simulated lab situations.

## 203 General Pharmacology (3)

3 hours lecture per week
Prerequisites: ZOOL 141, 141L, ZOOL 142, 142L or equivalent; Chemistry is recommended
General Pharmacology 203 is a general pharmacology course that includes discussion of the major categories of drugs, their mechanism of action, toxicity, administration considerations, and uses. This course is intended for nursing student and students in the other health occupations.

## PHILOSOPHY (PHIL)



100 Introduction to Philosophy (3) AH4
3 hours lecture per week
Recommended preparation: Qualification for or completion of ENG 100 or 160
Survey of methods, values, and types of philosophy. Intended for non-majors.
Upon successful completion of this course, the student should be able to:
... Recognize the major world views that have dominated and sometimes polarized Western philosophy.
... Demonstrate knowledge of major Western thinkers and of the major concerns of Western philosophy, such as the problem
of God, the nature of reality, the nature of self, ethical concerns, problems of truth and problems of meaning.
... Show awareness of contemporary philosophical trends and conflicts.
... Better understand their own world view and value system.
... Express ideas and opinions clearly in writing.

## 102 Introduction to Philosophy: Asian Traditions (3) AH4 <br> 3 hours lecture per week <br> Recommended Preparation: Completion of or qualification for ENG 100 or 160.

A survey of the major themes and schools of Asian philosophy. Upon successful completion of this course the sludent should be able to:
... Critically reflect upon and articulate their ideas about reality.
. . . Understand the concerns of Asian philosophy.
. . Appreciate contrasts between Asian and Western thought.
... Recognize the methods of philosophical reflection.
. . . Be aware of their personal value system.
. . . Understand the vocabulary of Asian philosophy.
. . Know the existence and characterislics of the major schools of Asian philosophy.
. . . Be aware of the development of the schools of Asian philosophy and their occasional influence on each other.
... Appreciate the influence of Asian philosophy on the West.
... Express ideas and opinions clearly in writing.

110 Introduction to Logic (3) M/L
3 hours lecture per week
Prerequisite: Qualification for MATH 27.
Recommended preparation: Completion of or qualification for ENG 100 or 160.
Development of basic problem-solving skills and an understanding of the principles and concepts involved in clear thinking. Emphasized will be the concepts of truth and validity, deductive reasoning, fallacious modes of argument and the criteria of adequate evidence in science and ordinary life.
Upon successful completion of this course the student should be able to:
. . . Demonstrate knowledge of informal fallacies by identifying typical instances in everyday life.
. . . Translate logical problems into symbolic notation.
. . . Show ability to recognize the basic valid forms of argument.
. . . Employ formal rules of logic in deductive analysis.
. . . Construct truth-tables for argument forms.
. . . Understand the use of Venn Diagrams.

200 History of Philosophy I (3) AH2
201 History of Philosophy II (3) AH2
3 hours lecture per waek
PHIL 200 covers Western philosophy from the era of Greek thinkers to the Renaissance.
PHIL 201 covers Western philosophy from the Renaissance to the present.
Upon successful completion of PHIL. 200 or 201, the student should be able to:
... Recognize the major world views of ancient and medieval/ modern and contemporary western philosophy.
. . Demonstrate knowledge of the ways in which ancient and medieval/modern and contemporary Western philosophers deal with topics such as the nature of reality, the nature of the self, the existence of God, social and political problems, and the problem of meaning.
. . Show awareness of the major thinkers of ancient and medieval/modern and contemporary philosophy.
... Express ideas and opinions clearly in writing.


100 Introduction to Physical Therapy (3)
Fall, Spring
3 hours lecture per week, 10 hours PT observation Recommended preparation: ENG 100 or 160, COMUN 145 It is strongly recommended that this course be taken prior to application to the second year of the PTA program.
This course defines the role of the physical therapist assistant in patient care; provides basic knowledge and skills in record-keeping and communications in a health care facility including ethical, medical, legal, and fiscal considerations; and introduces rehabilitation concepts, procedures, aids and terminology.
Upon successful completion of this course, the student should be able to:
... Define the student's and faculty's responsibilities and duties in the Physical Therapy Assistant program.
. . . Describe the key terms in Physical Therapy.
. . . Describe the history and development of Physical Therapy as a profession.
. . Understand the roles of the Physical Therapy and the Physical Therapy Assistant.
... Understand the role of other health care workers in patient care.
... Understand the importance and successfully deal with the psychological aspect of patient care.
... Understand the importance of ethics in clinical behavior.
. . . Discuss the legal aspects of patient care.
... Understand and discuss the fiscal aspects of patient care.
... Observe 10 hours in a Physical Therapy departmenvpractice.
. . . Describe key services provided by Physical Therapy.

## 201 Transfers, Positioning, Mobility and Assistive Devices (1)

 3 hours lab per weekPrerequisite: Admission to PTA program or consnt of instructor
Corequisite: All third semester PTA courses
Basic patient care skills of wheelchairs, ambulatory aids, selected hospital equipment and transfers.
Upon successful completion of this course, the student should be able to:
... Demonstrate wheelchair, hospital bed, ambulation aid and transfer skills.
... Identify and assess architectural barriers to mobility.
... Fit wheelchairs to meet rehabilitation goals.

## 202 Thermal Agents (1)

1 hour per week
202L. Thermal Agents Lab (1)
3 hours lab per week
Note: the descriptions of 202 and 202 L are identical
Prerequisite: Admission to PTA program or consent of PTA program director
Corequisite: - All 3rd semester PTA courses
The physical agents addressed are heat, cold, ultraviolet and ultrasound. In order to know best when to use physical agents, the physical therapist assistant must understand the pathophysiological processes involved, the effects of the agents, their production and any hazards inherent in their use. Emphasis is placed on the theory and application of the physical agents as they may be used in a fully integrated treatment plan.
Upon successful completion of these courses, and given a patient of any age with a referral and a complete physical therapy evaluation, the student should be able to:

Identify and collect appropriate data about the patient.
Identify the patient's physical therapy problems from evaluation data, given or gathered, that can be addressed by physical agents.
Set realistic goals that can be accomplished by using physical agents.
... Plan a treatment program for the patient, which includes appropriate utilization of physical agents.

- Compare altemative methods based on pathologym effects of treatment, precautions, factors imposed by the patient's condition and age, departmental policy, equipment avail ability, cost and time factors.
- Select the appropriate treatment based on comparison of alternative methods.
- Sequence treatments in order to maximize the effectiveness of each part.
- Discuss delegation of treatment to non-professional personnel and their supervision.
- Describe the physical agents portion of the treatment plan in detail, including: effects, precautions, appropriate dosage for optimal safety, comfort and effectiveness, proper position for optimal safety, comfortand effectiveness.
... Implement treatment maintaining standards of comfort, modesty, safety, accuracy and specificity.
- Position the patient considering comfort, accessibility and safety. Drape the patient for comfort and accessibility.
- Instruct the patient accurately and thoroughly in language the patient can understand.
- Demonstrate all appropriate safety precautions, induding use of correct body mechanics, in carrying out the treatment.
- Measure the correct dosage.
- Cive appropriate follow-up care and instructions to the patient.
- Clean and maintain the equipment and treatment area.
... Describe the assessment of the patient's physiological, physical and subjective responses to treatment during and after each component of treatment and compare the responses to pre-treatment data.
... Modify treatment and/or goals according to reassessment results when appropriate.
- Describe the adaptation of the treatment for home use if indicated.


## 203 Therapeutic Exercise I (1)

1 hour lecture per week
203L Therapeutic Exercise Lab I (1)
3 hours lab per week
Note: the descriptions of 202 and 202L are identical
Prerequisite: Admission to PTA program or consent of PTA program director
Corequisite: All third semester PTA courses
Basic principles of therapeutic exercise to include theory of the body's response to exercise in normal and pathologigical states: passive, assistive and active ROM; isometric, isotonic, isokinetic techniques and PRE programs.
Upon successful completion of of these courses, the student will be able to:
... Position a person correctly for exercise considering gravitational efforts.
. . . Stabilize correctly for exercise.
... Demonstrate range of motion exercise to all body segments in a safe, effective and efficient manner to include passive, assistive, and active techniques.
. . . Demonstrate strengthening exercise programs for neck, trunk, UE and LS.
... Demonstrate and describe differences in strength vs- endurance exercise.
... Demonstrate and describe by contrast and comparison the types of exercise labled isometric, isotonic, isokinetic.
... Demonstrate, describe and apply PRE techniques using the following methods: Oxford, DeLorme, BME.
. . . Design an exercise program based on the instructor's evaluation of the individual and care plan developed.

## 204 Traction (1)

2 hours lecture/lab per week
Prerequisite: Admission to Physical Therapist Assistant program or consent of PTA program director.
Corequisites: PTA 3 rd semester courses.
Principles of cervical and lumbar traction as they relate to clinical application: description, indications, contraindications, techniques, frequency and safety.
Upon satisfactory completion of this course, the student should be able to:
... Position a person correctly for cervical lumbar traction considering treatment goals.
. . . Demonstrate application of and use of a variety of cervical and lumbar procedures including standard, occipital harness, over-the-door cervical and supine prone asymmetric inversion lumbar traction techniques.
. . . Identify the differences in static and intermittent procedures and know the rationale behind treatment choices.
... Document accurately the use of cervical and lumbar traction apparatus
... Perform ethically and safely traction techniques.

[^4]
## Corequisite: All third semester PTA courses

Theory and skills in basic measurements within the role of the Physical Therapist Assistant. Includes goniometry, ROM, gross functional strength testing, circumferential and axial measurements.
Upon successful completion of this course, the student should be able to demonstrate:
... Accurate and efficient goniometry, muscle testing and other measures of the extremities, trunk and neck.
. . . Accurate and efficient recording in medical records of each of the various measurements presented in class.
. . Selection of the correct measurement tool for the task.
... Accurate positioning and stabilization of the body when performing or assisting the physical therapist in measurements (i.e. goniometry and muscle tests).
... Ability to describe and apply the theoretical concepts of goniometry, gross strength tests, circumfertential and axial measures.
Completion of the MACs skills in both lab and clinic assignments.

## 206 Massage (1)

## 3 hours lab per week

Prerequisite: Completion of third semester of PTA program or consent of PTA program director
Corequisite: All fourth semester PTA courses
A basic course in Swedish massage techniques with significant manual skills practice in all areas of the body. Exposure to selected other massage techniques.
Upon successful completion of this course, the student should be able to:
. . . Perform a basic therapeutic massage to include effleurage, petrissage, and friction appropriately applied in sequence.
. . Apply massage techniques appropriately to body parts in relation to desired physiologic effects.
. . . Recall and apply indications and contraindications for massage. Perform ethically and safely the therapeutic techniques.

## 207 Aquatic Physical Therapy (1)

3 hours lab per week
Prerequisite: Satisfactory completion of PTA third semester or consent of PTA program director.
Corequisite: PTA 4th semester courses.
Current physical therapy concepts related to the use of an aquatic medium for therapeutic and rehabilitative purposes.
Upon satisfactory completion of this course,the student should be able to:
. . Apply an understanding of the physical properties of water to the design of effective pool treatment programs.

- Define buoyancy and relate Archimedes principle to human movement in the water.
- Define turbulence and its influence on human movement in the water.
- Describe ways in which resistance to movement in the water may be altered.
- Describe hydrostatic pressure.
- Outline a problem-oriented approach to pool treatment for specific patient problems based on the physical properties of water.
... Demonstrate knowledge of the body's physiological response to immersion in the therapeutic pool.
- Describe the cardiovascular response of the body during immersion in water of different temperatures and during different activities in water.
- Describe the body's renal response to water immersion.
- Describe how pool therapy influences the body's sensory system.
- Describe thermoregulation of the human body during water immersion.
... Demonstrate knowledge of health and safety issues related to pool therapy.
- List patient conditions which are precautions to aquatic physical therapy.
- Define selected terms dealing with the regulation of prop erly chemically balanced pool water.
- Outline procedures necessary for regulating properly chemically balanced pool water.
- Define critical components and outlines an effective emergency plan for a therapeutic pool.
- Describe the qualifications of personnel required to con duct a safe aquatic physical therapy program.
... Demonstrate knowledge of principles of selected pool therapy techniques and effective application to specific patient problems.
- Describe the history and treatment principles of the Bad Ragaz ring and Halliwick Methods.
- Demonstrate basic skill when selecting and using tech niquesfrom the Ragaz ring and Halliwick Methods.
- Descibe difference between gait training on the land and in the therapeutic pool.
- Demonstrate basic skill in selecting and using pool therapy techniques designed to improve the gait function of pa tients.
... Demonstrate knowledge of available pool design options and pool therapy equipment for conducting a pool therapy program.
- Outline the critical decisions to be made when designing a therapeutic pool.
- Identify pool design options and select the most appropriate based on patient needs.
- Describe selected pool therapy equipment items and demonstrate their use.
... Demonstrate knowledge of adapled swimming techniques and wheelchair athletics.
- Describe and demonstrate how the five basic swimming strokes can be adapted for specific physically challenged populations.
- Describe the purposes, goals and benefits of wheelchair athletics.
- Describe the medical dassification system for the National Wheelchair Athletic Assodation and Cerebral Palsy Sports.
... Integrate dry land stabilization exercises with aquatic P.T. techniques.
- Describe pelvic stabilization techniques as they relate to aquatic environment.
- Select the appropriate treatment progression of dry land exercises as they relate to aquatic P.T. progressions.
- Compare alternative methods based on pathology, effects
of treatment, precaution factors imposed by the patient condition and age, with consideration of facility accessibil ity, cost and time.


## 208 Advanced Therapeutic Exercise (1)

1 hour lecture per week

## 208L Advanced Therapeutic Exercise Lab (1)

3 hours lab per week
Note: the descriptions of 208 and 208L are identical
Prerequisite: Satisfactory completion of PTA third semester or consent of instructor.
Corequisite: PTA fourth semester.
A presentation of advanced principles of therapeutic exercise to include theory of the body's response to exercise. Exposure to the variety of advanced therapeutic exercises principles, including but not limited to proprioceptive neuromuscular facilitation, V02 maximum testing, isokinetic testing, advanced application of endurance, resistance and strength equipment.
Given:

- an individual of any age
- a subjective and objective evaluation of the individual

Then at the successful completion of these courses the student should be able to:
... Discuss the value of exercise for rehabilitating, promoting and maximizing health and performance.
... Discuss the biomechanical, physiological, neuromotor and cognitive/behavioral parameters of any exercise and their impact on the response to the exercise.
... Design an exercise program for any individual or group of individuals applying the principles of biomechanics, exercise physiology, kinesiology, motor learning, neurophysiology and pathophysiology.
... implement an exercise program applying the principles of biomechanics, exercise physiology, kinesiology motor teaming.
... Assess the outcome of an exercise program and implement appropriate modifications.
. . . Critically analyze a given exercise program for any individual.

## 209 Modalities/Techniques (1)

3 hours lab per week
Prerequisite: Salisfactory completion of PTA third semester or consent of PTA program director Corequisite: PTA fourth semester courses
Basic principles of modalities and techniques in physical therapy, including but not limited to burn care, gait analysis, prosthesis/ orthotics, bracing apparatus.
Upon successful completion of this course, the student will be able to:
... Apply given techniques appropriately in relation to desired effects.
... Document accurately therapeutic intervention and response
. . Identify characteristics of given modalities and techniques by diagnosis.
... Recognize accurate responses to modalities and techniques.
... Recognize the range of patient responses to each form of modality and technique and take appropriate action
... Operate in a safe, efficient and effective manner all forms of
modalities and techniques presented in class. Follow a licensed physical therapist plan of care for given modality or technique.

## 212 Techniques for Neuropathologies (1)

 1 hour lecture per week212L Techniques for Neuropathologies Lab (1)
3 hour lab per week
Note: the descriptions of 212 and 212 L are identical
Prerequisite: Satisfactory completion of third semester of PTA
program or consent of PTA program director
Corequisite: All fourth semester PTA courses
An overview of techniques in use with various neuropathologies, indications, contraindications, goals and objectives. Lab practice of therapeutic techniques used for patients with neuropathologies such as TBI, SCI, CVA, Guillain-Barre' syndrome, Parkinson's syndrome, Alzheimer's, PNI, polio, ALS, multiple sclerosis, various dystrophies and others, Emphasis is on neuropathology acquired in adulthood.
Upon successful completion of this course, the student should be able to:
... Identify classifications of neuropathologies.
. . . Identify rehabilitation potential of neuropathologies
. . . Recognize accurate responses to techniques.
. . . Follow POC designed by PT to apply techniques.
... Document accurately therapeutic intervention and response
. . . Identify characteristics of neuropathologies by diagnoses

## 245 Clinical Practicum and Seminar I (4)

1 hour seminar per week, 160 hours total clinical practice
Prerequisite: Admission to PTA program
Corequisite: All third semester PTA courses
The first of a three-part series designed to integrate the student's clinical and didactic experiences by developing problem-solving and interpersonal skills. Application of the knowledge and skills gained in corequisite major courses with refinement of skills and abilities in therapeutic procedures and modalities occurring in offcampus dinical settings. Basic patient careskills are included in the initial seminar classes.
Upon successful completion of this course, the student should be able to:
. . . Provide physical therapy services as specified in the plan of care developed by the supervising physical therapist using appropriate selected treatment procedures and skills.
.. . Exhibit proper professional behavior,
... Identify the respective responsibilities of the student, clinic and college in the clinical experience.
. . . Use the PTAMMACS as a competency based assessment, study and performance guide.
... Know select issues of the clinic as a dassroom.
... Practice patient confidentiality concerning patient information.

## 255 Clinical Practicum and Seminar II (3)

1 hour seminar per week, 80 hours lotal clinical practice Prerequisite: Satisfaciory completion of 3rd semester of PTA program Corequisite: All fourth semester PTA courses

The second of a three-part series designed to integrate the student's clinical and didactic experiences by developing problem-solving and interpersonal skills. Application of the knowledge and skills gained in corequisite major courses with refinement of skills and abilities in therapeutic procedures and modalities occurring in offcampus clinical settings. Basic documentation and employment skills.
Upon successful completion of this course, the student should be able to:
. . . Complete MACS skills assigned.
. . . Complete optional MACS skills as clinical assignments allow.
. . Use SOAP and problem-oriented documentation procedures.
. . . Practice clinical skills from prerequisite and corequisite courses at or above minimal acceptable competency at assigned clinical sites.
... Demonstrate competency in documentation and required technical writing.
. . . Demonstrate comprehension of patient care audits for quality assurance.
Role play employment interviews and prepare employee documentation.

## 260 Clinical Practice III (6)

40 hours per week, 8 weeks
Prerequisite: Satisfactory completion of fourth semester of PTA program
Note: Mandatory CR/NC grading.
A continuation of PTA 140 and 240 , this course is the application in the clinical setting of knowledge and skills gained in prerequisite major courses. It provides for the development and refinement of skills and abilities in therapeutic procedures and modalities.
Upon successful completion of this course the student should be able to:
... Provide physical therapy services as specified in the plan developed by the physical therapist which includes:

1. Skills .1 through .39 of the Physical Therapist Assistant Mastery and Assessment of Clinical Skills (PTAMMACS) with emphasis on skills . 30-. 37 .
2. Use of appropriate treatment techniques including:

- Instruction of patient as to method and purpose of treatment procedure and proper use of assistive devices.
- Encouraging the patient to achieve maximum potential.
- Selection of effective sequence for treatment.
- Instruction of health care providers to perform selected treatment procedures and functional activities.
- Modification of program according to patient's needs.
- Demonstration of an awareness of the TOTAL patient.
- Response to acule changes in physiological state.
- Demonstration of safe, ethical and legal practice.
- Practicing the principles of body mechanics.
- Proper use and adjustment of equipment.
- Cleaning of treatment area after use.
- Demonstration of ability to organize time.
. . Exhibit proper personal behavior

1. Present a professional appearance in the assigned Physical Therapy Assistant uniform.
2. Conduct themselves in a professional manner.

- Accept responsibility.
- Abide by the regulations of the clinical facility.
- Seek out learning experiences.
- Show consideration of the attitudes and beliefs of others.
- Assist and cooperate willingly with co-workers.
- Refer question(s) they cannot or should not answer to the proper authority.
- Identify situations that should be reported to the supervisor.
- Maintain confidentiality of information.
- Response favorably to criticism and suggestions.
- Recognize their own strengths and limitations.
- Indicate clear understanding of their role as a Physical Therapist Assistant.
- Be able to problem-solve in the role of the Physical Therapist Assistant.
- Seek assistance with patient care as needed to insure adequate treatment.
- Complete assignments.

3. Maintain appropriate interpersonal relationships.

265 Electrotherpy for Physical Therapist Assistants (1)
1 hour lecture per week
Prerequisite: Satisfactory completion of 4th semester of PTA program or consent of PTA program director
Corequisite: All fourth semester PTA courses
Theories and physiological responses of human tissue to electrical stimulation. Therapeutic applications of various forms of electrical stimulation; indications, contraindications and precautions. Lab experience and demonstration of safe, efficient therapeutic electrical stimulation.
Upon successful completion of this course, the student should be able to:
... Recall indications/contraindications for electrical stimulation.
... Follow a licensed physical therapist plan of care for patient electrical stimulation.
... Choose the correct stimulation for the treatment.
... Recognize the range of patient responses to each form of electrical stimulation and take appropriate action.

265L Electrotherapy Lab for Physical Therapist Assistants (1) 3 hours lab per week
Prerequisite: Satisfactory completion of 4th semester of PTA program or consent of PTA program director Corequisite: All fourth semester PTA courses
Therapeutic applications of various forms of electrical stimulation; indications, contraindications and precautions. Lab experience and demonstration of safe, effective and efficient therapeutic electrical stimulation.
Upon successful completion of this course, the student should be able to:
... Operate in a safe, efficient and effective manner all forms of electrical stimulations presented in class.
.. Recall indications/contraindications for electrical stimulation.
... Follow a licensed physical therapist plan of care for patient electrical stimulation.

Choose the correct stimulation for the treatment.
Recognize the range of patient responses to each form of electrical stimulation and take appropriate action.

## 275 Pediatrics for the Physical Therapist Assistant (1)

1 hour lecture 3 hours lab per week
Prerequisite: Satisfactory completion of fourth semester of PTA
program or consent of PTA program director
Corequisite: All fourth semester PTA courses
Fundamental theory of normal motor development, developmental disability and pathophysiology of the pediatric patient. Includes selected therapeutic interventions for orthopedic and neurological disorders in pediatrics, introduction to adaptive and therapeutic equipment for treating pediatric patients; and special techniques for working with pediatric patients and care givers.
Uponsuccessful completion of this course, the student should be able to:
... Describe general concepts of infant motor development and infant movement.
... Demonstrate functional movements and components of flexion, extension, lateral flexion and rotation as they occur in infant development.
... Identify normal and abnormal postures in infant development.
... Recognize types of behavior problems and an approach to behavior management.
... Identify the components of development as they apply to abnormal neurologic and orthopedic development of children.
... Describe or identify selected deformities, activities and indications for therapeutic interventions in selected muscle diseases and general medical conditions which contribute to abnormal development of children.


100 Survey of Physics (3) NS2
3 hours lecture per week
Prerequisite: MATH 25 or its equivalent.
Registration in PHYS 100 L optional.
Introduction to physics; concepts and developments of classical physics.
Upon successful completion of this course, the student should be able to:
... Demonstrate knowledge and understanding of some basic concepts and principles of physics.
... Demonstrate insights into associations and relationships of the topics treated in the course.
. . . Utilize elementary abstract thinking and analytical reasoning.
... Understand mathematical proportionality in physical principles.
... Utilize calculation techniques with mathematically formu-
.. Identify and assess quantitative information in terms of principles.
... Better utilize and control the physical environment.
.. Understand the descriptions and principles of motion.
.. Understand mechanical energy, power, and efficiency.
. . Understand thermodynamics and the kinetic theory of matter.
Understand the basic principles of electricity and magnetism.

## 100L Survey of Physics Laboratory (1) NS2

3 lab hours lab per week
Prerequisite: Credit or registration in PHYS 100
Simple experiments in basic concepts of physics.
Upon successful completion of this course, the student should be able to:
. . . Demonstrateknowledge of direct experience into some scientific concepts and principles.
... Demonstrate insights into the interaction between theory and experiment.
... Design procedures for acquiring information from experimentation.
... Record data, analyze data and extract information from data.
. . . Demonstrate skills at making quantitative determinations with formulations.
... Demonstrate some experience with the use of instruments and equipment

## 151 College Physics I (3) NS2

3 hours lecture per week
Prerequisite: MATH 140 or knowledge of trigonometry
Principles, theories and problem solving in motion, mechanical energy, waves, thermal energy and thermodynamics.
Upon successful completion of this course, the student should be able to:
. . . Demonstrate minimum knowledge and skills of motion, mechanical energy, thermal energy and thermodynamics.
... Demonstrate an understanding of and insights into the concepts and principles related to motion, mechanical energy, thermal energy and thermodynamics.
... Develop insights into the associations and relationships in the above topics.
... Utilize abstract thinking and analytical reasoning.
... Understand mathematical proportionality in physical principles.
... Identify and assess quantitative information in terms of physical principles.
... Utilize calculation techniques with mathematically formulated principles.

## 151L. College Physics Laboratory I (1) NS2

## 3 hours laboratory per week

Prerequisite: Credit or registration in PHYS 151
Introduction to experimental analysis, physical observations, and measurements in subjects related to PHYS 151.
Upon successful completion of this course, the student should be able to:
... Demonstrate knowledge of some direct experiences in concepts and principles.
... Develop insights into the interactions between theory and experiments.
... Design procedures for acquiring information from experimentation.
... Record, analyze and extract information from data.
... Demonstrateskills at making quantitative determinations with formulations.
... Use laboratory instruments and equipment.
... Acquire knowledge and insights into the subjects of laboratory projects.

## 152 College Physics II (3) NS2

3 hours lecture per week
Principles, theories and problem solving in electricity, magnetism, light, relativity theory, quantum atomics, and nuclear reactions.
Upon successful completion of this course, the student should be able to:
... Demonstrate minimum knowledge and skills in electricity, magnetism, light, relativity theory, quantum atomics, and nuclear reactions.
. . Demonstrate an understanding of and insights into the concepts and principles related to electricity, magnetism, light, relativity theory, quantum mechanics and nuclear reactions.
. . . Develop insights into the associations and relationships in the above topics.
... Utilize abstract thinking and analytical reasoning.


Photo by Moriso Teraoka
A physics student experiments with collision balls to study conservation of motion.
. . Uilize abstract thinking and analytical reasoning.
. . . Understand mathematical proportionality in physical principles.
. . . Identify and assess quantitative information in terms of physical principles.
. . Utilize calculations techniques with mathematically formulated principles.

## 152L. College Physics Laboratory II (1) NS2

3 hours laboratory per week
Prerequisite: Credit or registration in PHYS 152
Introduction to experimental analysis, physical observations and measurements in subjects related to PHYS 152.
Upon successful completion of this course, the student should be able to:
. . . Demonstrate knowledge of some direct experiences in concepts and principles.
... Develop insights into the interactions between theory and experimentation.
... Design procedures for acquiring information from experimentation.
... Record, analyze, and extract information from data.
... Demonstrate skills at making quantitative determinations with formulations.
... Use laboratory equipment and instruments.
... Acquire knowledge and insights into the subjects of laboratory projects.

## 170 General Physics I (4)

4 hours lecture per week
Prerequisile: Math 206 (or concurrent)
Recommended Preparation: PHYS 100 or high-school physics
An introductory calculus-based course dealing with the principles
and theories of the mechanics of particles, rigid bodies and fluids; wave motion; thermodynamics and kinetic theory
Upon successful completion of this course, the student should be able to:
... Demonstrate knowledge and skills of motion, energy, wave theory and thermodynamics.
... Demonstrate an understanding of and insights into the concepts and principles related to the kinematics and dynamics of motion, energy, wave theory and thermodynamics
... Demonstrate insights into the associations and relationships of the topics treated in the course.
. . . Utilize abstract thinking and analytical reasoning in the analysis and solution of word problems
... Understand mathematical techniques used in the explanation of physical phenomena.
... Utilize calculation techniques with mathematically formulated principles.
... Identify and assess quantitative information in terms of physical principles.

170 L General Physics Lab I (1)
3 hours lecturellab per week
Prerequisite: PHYS 170 (or concurrent)
Experimental analysis, physical observation and measurements in mechanics, fluids, heat and thermodynamics, emphasizing on
error analysis, measurement techniques and report writing. Upon successful completion of this course, the student should be able to:
... Demonstrate knowledge of some direct experiences of the concepts and principles covered in the course.
... Develop insights into the interaction between theory and experiments.
... Design procedures for acquiring information from experimentation.
. . . Record, analyze, and extract information from data acquired.
... Demonstrate skills at making quantitative determinations with formulations.
... Use laboratory instruments and equipment.
... Write a technical report.

## 272 General Physics II (3)

## 3 hours lecture per week

## Prerequisite: PHYS 170, 170 L and MATH 206

An introductory calculus-based course dealing with the principles and theories of the mechanics of particles, rigid bodies and fluids; wave motion; thermodynamics and kinetic theory Upon successful completion of this course, the student should be able to:
... Demonstrate knowledge and skills of electricity, magnetism and geometric optics.
... Demonstrate insights into the associations and relationships of the topics treated in the course.
... Utilize abstract thinking and analytical reasoning in the analysis and solution of word problems.
... Understand mathematical techniques used in the explanation of physical phenomena.
. . Utilize calculation techniques with mathematically formulated principles.
... Identify and assess quantitative information in terms of physical principles.

## 272 General Physics 11 (3)

3 hours lecture/lab per week
Prerequisite: PHYS 272 (or concurrent) and PHYS 170 L
Experimental analysis, physical observation and measurements in electricity. magnetism and geometric optics; emphasis on error analysis, measurement techniques and report writing.
Upon successful completion of this course, the student should be able to:
... Demonstrate knowledge of some direct experiences of the concepts and principles covered in the course.
... Develop insights into the interaction between theory and experiments.
... Design procedures for acquiring information from experimentation.
. . . Record, analyze and extract information from data acquired.
... Demonstrate skills at making quantitative determinations with formulations.
. . . Use laboratory instruments and equipment.
. . Write a technical report.

# POLITICAL SCIENCE (POLSC) 

110 Introduction to Political Science (3) SS
3 hours lecture per week
Recommended Preparation: Qualification for or completion of ENG 100 or 160
An introduction to the scope of political science, approaches to the discipline, its methods, its tools, its problems and its processes. Upon successful completion of this course, the student should be able to:
... Demonstrate an appreciation and interest in politics.
... Acquire the necessary political skills to cope with political life.
... Develop a political perspective which one may apply to contemporary social problems and institutions.
Show the beginnings of a world view and a sensitivity to political and socio-economic events in other parts of the world.
. . . Show a personal growth which reflects a sharpened sense of one's own values in relation to political issues.
. . . Express ideas and opinions clearly in writing.

## 120 Introduction to World Politics (3) SS

## 3 hours lecture per week

Recommended preparation: Qualification for or completion of. ENG 100 or 160
Power and contemporary world politics since 1945 with emphasis on U.S. role.
Upon successful completion of this course, the student should be able to:
... Understand the relationships between nation states and the development of the international political order.
... Understand the role of international organizations and laws.
. . . Understand the different modes of conflict resolution.
... Apply knowledge of foreign, strategic and economic policy to analyzing current events.
... Understand politics of Europe, Middle East, Asia, Africa and the Americas.

## 130 Introduction to American Politics (3) SS

3 hours lecture per week
Recommended Preparation: Qualification for or completion of ENG 100 or 160
American political processes and institutions as seen through alternate interpretations.
Upon successful completion of this course, the student should be able to:
... Weigh critically the political alternatives and develop a sense of political efficacy and identity.
... Perceive the linkages between the political, economic and social areas.
... Analyze current American political problems and propose possible solutions.
... Demonstrate a systems oriented approach to study political

## life in America.

... Propose viable political alternatives and strategies for change.

## 171 Political Design and Futuristics (3) SS

3 hours lecture per week
Prerequisite: Qualification for or completion of ENG100 or 160 Using science, fact and fiction, this course shows how past and present images of the future influence peoples' actions.
Upon successful completion of this course the student should be able to:
... Demonstrate an appreciation and awaremess of futuristic studies.
... Develop futurisitic interdisciplinary perspectives which may be applied to contemportary socio-economic and political problems and institutions.
... Demonstrate the ability to understand various cosmologies (a banch of philosophy dealing with the origins, processes and structure of the universe) and epistemologies (a division of philosophy that investigates the nature and origins of knowledge) of the past and present as well as of the futrure.
... Exercise the ability to critically analyze material, empirical and theoretical concepts. The student should be able to formulate and express values and opinions orally and in writing.
Formulate alternative perspectives of personal and career choices.

## 270 Public Policy (3)

3 hours lecture per week
Recommended Preparation: ENG 100 or 160
A study of how various issues and problems of society become the basis of public policies.
Upon successful completion of this course the student should be able to:
.. Demonstrate an appreciation and awareness of public policy analysis. Various public policy methodologies will be introduced to the student.
... Develop an interdisciplinary perspective which may apply to contemporary socioeconomic and political problems.


Photo by Randall Ajimine Soviet educator Alexander Vladislavlev brings KCC faculty up to date in events in Russia.
ent approaches to the study of public policy. Critically analyze material, empirical and theoretical concepts. The student should be able to formulate and express values and opinions orally and in writing.


100 Survey of Psychology (3) SS
3 hours lecture per week
Recommended Preparation: Qualification for or completion of ENG 100 or 160
A survey of psychology to acquaint students with the basic concepts and principles of psychology. Emphasizes lecture, multimedia presentations, discussions and experimentation.
Upon successful completion of this course, the student should be able to:
... Demonstrate knowledge of the basic concepts and principles of psychology.
... Analyze skills necessary in scientific inquiry.
. . . Show how knowledge of psychology is useful to one's own life and in helping solve societal problems.
... Exhibit knowledge for problem solving and critical discussion.
... Demonstrate a critical approach to reading psychological literature.
... Express ideas and opinions clearly in writing.

## 170 Psychology of Adjustment (3) SS

3 hours lecture per week
Previously Psychology 110
Recommended Preparation: Qualification for or completion of ENG 100 or 160
Understanding, evaluation and improving adjustment ideas and techniques concerning behavior change and personal growth. Upon successful completion of this course, the student should be able to:
... Describe four different models of human behavior: psychoanalysis, behavioristic, existential and humanistic.
... Discuss what are normal and abnormal coping mechanisms and how these effective/ineffective coping behaviors are manifested.
... Develop a concept of "self" through self-examination, value clarification, etc.
... Discover tools for personal adjustment.
... Show knowledge of available psychological resources in the community and the basic method(s) they employ.
... Show awareness of the different roles one must take to live a responsible life within the family, community, and the general society.
Express ideas and opinions clearly in writing.
202 Psychology of Women (3) SS

## 3 hours lecture/lab per week

Prerequisite: PSY 100
Recommended Preparation: Qualification for or completion of

ENG 100 or 160
Cross-listed as WS 202
Survey of contemporary theoretical and research issues relevant to the psychological development and functioning of women. Topics covered include: gender differences in biology, personality, behavior and development. Multicultural perspectives are emphasized. Upon successful completion of this course the student should be able to:
... Demonstrate an understanding of theoretical perspectives on the development and functioning of women.
... Demonstrate an awareness of various methodological approaches used to research the psychology of women.
... Demonstrate awareness of contemporary psychological research on gender differences in biology, personality, behavior, and development.
... Demonstrate an ability to critically review material related to the psychology of women.
. . Express ideas and opinions clearly in writing.

## 230 Introduction to Psychobiology (3)

3 hours lectures per week
Prerequisite: PSY 100
Recommended Preparation: Qualification for or completion of ENG 100 or 160
Survey of the relation between behavior and biology. Emphasis will be on structure and function of the central nervous system along with rthe ethological analyses of behavior.
Upon successful completion of this course, the student should be able to :
... Demonstrate an understanding of the basic structures and functions of thecentral nervous system and how these relate to observable behavior.
... Demonstrate an understanding of the methodologies used to explore the physiological bases of behavior.
... Demonstrate the ability to critically review material related to psychobiology.

## 240 Developmental Psychology (3)

3 hours lecture per week
Prerequisite: PSY 100
Recommended preparation: Qualification for or completion of ENG 100
Emphasis on the psychological processes underlying development of the person from infancy through adulthood.
Upon successful completion of this course, the student should be able to:
... Demonstrate awareness and understanding of the developmental process from conception to adulthood.
. . . Demonstrate an elementary awareness and understanding of the various stages of development.
. . . Critically review material about developmental psychology. Express ideas and opinions clearly in writing.

## 260 Psychology of Personality (3)

3 hours lecture per week
Prerequisite: Psychology 100
Recommended Preparation: Qualification for or completion of ENG 100.
Survey of major theoretical approaches to personality, personality
assessment and personality change. Current research issues will be emphasized.
Upon successful completion of this course the student should be able to:
. . Demonstrate understanding of the basic theoretical approaches to personality, and their corresponding views of development, change and assessment.
Demonstrate understanding of the various methodological approaches to personality research.
... Demonstrate ability to critically review material related to psychology of personality.

## 270 Introduction to Clinical Psychology (3) <br> 3 hours lecture per week <br> Prerequisite: PSY 100 <br> Recommended Preparation: Qualification for or completion of ENG 100

Survey of types of psychological problems, methods of assessment, types of treatment, along with the history and theories of behavior problems.
Upon successful completion of this course, the student should be able to:
. Demonstrate an understanding of the development and maintenance of pathological behavior.
. . Demonstrate awareness and basic understanding of the types of assessment and treatment of pathological behavior.
... Demonstrate an ability to critically review material related to clinical psychology.

## QUANTITATIVE METHODS (QM)



## 252 Applied Math in Business (3) M/L

3 hours lecture per week
Prerequisite: Math 135 or placement recommendation of Math 140 or above.
The algebra and geometry of linear, quadratic, exponential and logarithmic functions. Mathematics of finance-annuities, perpetuities and present value. Derivatives, graphical analysisand mathematical models as applied to business. Applications of the derivative to curve sketching and optimization.
Upon successful completion of this course, the student should be able to:
... Understand and apply the concepts of functions, limits and continuity to business and financial problems.
... Compute the derivatives of power functions, exponential and logarithmic functions, and any combination of these functions using the sum product, quotient and chain rules.
... Apply the derivative to problems involving slopes, tangent lines, rates of change and optimization.
... Apply the concepts of limits and derivatives to graphing.
... Apply the graphing techniques of this course in solving applied problems.

> RADIOLOGIC TECHNOLOGY (RAD)

100 Introduction to Radiologic Technology (3)
Fall 3 hours lecture per week
Prerequisite: Admission to the radiologic technology program
Corequisites: RAD 100 L and 140, credit or concurrent BIOL 130 Radiologic technology and its role in health care, application of basic ethical principles in radiologic technology, darkroom procedures and techniques, principles of radiologic techniques and practical application and basic positioning of structures.
Upon successful completion of this course, the student should be able to:

Practice basic ethical principles as a radiologic technologist in the performance of one's duties.
. . Apply the knowledge and skill necessary for thorough and efficient function in a darkroom.
. . Apply the principles of radiologic techniques and correlate this knowledge with practical application.
. . . Apply the principles of basic radiologic positioning of structures and correlate this knowledge with practical application.
... Describe the organizational structure of the hospital and its function in society.
... State a brief description of job tasks, educational systems, requirements for licensure, employment and career opportunities and any special aptitudes necessary for working in radiologic technology as a health career.
... State the importance of having specific knowledge about professionalism, death, patient rights, ethics, health insurance, and other medical-legal considerations.

100L Introduction to Radiologic Technology
Laboratory (1)
3 hours laboratory per week
Prerequisite: Admission to the radiologic technology program
Corequisites: RAD 100 and 140
Lab to accompany RAD 100.
Upon successful completion of this course, the student should be able to:
. Demonstrate mastery of tasks taught in RAD 100, including processing techniques, radiographic exposure and positioning, with emphasis on the chest, abdomen, upper extremity, shoulder girdle, lower extremity, hip joint and pelvic girdle.

## 110 Radiologic Technique (3)

Spring
3 hours lecture per week
Prerequisites: RAD 100, 100L, 140, BIOL 130
Corequisites: RAD 110L, 141, 149
Continuation of RAD 100. Includes nursing procedures pertinent to radiology.
Upon successful completion of this course, the student should be able to:
. Apply the principles of x-ray technique and correlate this
knowledge with practical application.
Construct technique charts for all situations and kilovoltage ranges.
Apply the principles of basic x-ray positioning of structures and correlate this with practical application.
Apply knowledge of nursing procedures and techniques used in the general care of the patient with emphasis on the role of the radiologic technologist in various nursing situations.

110L Radiologic Technique Laboratory (1)

## 3 hours lab per week

Prerequisites: RAD 100, 1001, 140
Corequisites: RAD 110, 141, 149
Lab to accompany RAD 110.
Upon successful completion of this course, the student should be able to:
. . . Demonstrate mastery of tasks taught in RAD 110, including producing radiographs of the skull, facial bones, spine, bony thorax and soft tissue of the chest.

## 120 Radiological Physics (3)

Spring

## 3 hours lecture per week

Prerequisites: RAD 100, 100L, MATH 100, or consent of instructor.
Electrical and radiation physics.
Upon successful completion of this course, the student should be able to:
.. Explain the fundamentals of electrical and radiation physics and the basic principles underlying the operation of $x$-ray equipment and auxiliary devices.
... Apply the principles of radiation protection.
. . . Understand the effects of ionizing radiation in biologic systems.

## 149 Radiographic Film Critique I (1)

Spring
1 hour lecture per week
Prerequisites: RAD 100, 100L, 140, BIOL 130
Corerequisites: RAD 110, 110 L
Evaluation of radiographic technique through critique of films. Upon successful completion of this course, the student should be able to:
. Recognize, describe and change the prime factors of radiography by correlation of knowledge gained in lecture classes.
. . Recognize, describe and change the factors which affect the radiographic quality of a film by correlation of knowledge gained in lecture classes.
... Correlate knowledge of anatomy and physiology with radiographic procedures performed in RAD 140 and 141.

## 150 Radiographic Film Critique II (2)

Summer
3 hours lecture per week for 12 weeks
Prerequisites: RAD 110, 110L, 120, 141, 149
Corequisite: RAD 142
Continuation of RAD 143.
Upon successful completion of this course, the student should be able to:
... Recognize , describe and change the prime factors of radiography by correlation of knowledge gained in lecture classes.
. . . Recognize, describe and change the factors which affect the radiographic quality of a film by correlation of knowledge gained in lecture classes.
... Correlate knowledge of anatomy and physiology with radiographic procedures performed in RAD 141 and 142.

200 Advanced Radiologic Positioning (3) Fall 3 hours lecture per week
Prerequisites: RAD 142, 150
Corequisites: RAD 200L, 210, 240, 248
Advanced radiographic positioning of the osseous system.
Upon successful completion of this course, the student should be able to:
... Practice principles of advanced x-ray positioning of osseous structures and correlate this knowledge with practical application.

200L Advanced Radiologic Positioning Laboratory (1)
Fall
3 hours lab per week
Prerequisites: RAD 142, 150
Corequisites: RAD 200, 210, 240, 248
Lab to accompany RAD 200.
Upon successful completion of this course, the student should be able to:
... Demonstrate mastery of tasks taught in RAD 200.
... Demonstrate mastery in construction of technique charts in advanced anatomy and positioning of the osseous system.
... Demonstrate mastery in procedures involving the use of contrast media.

210 Advanced Radiologic Technique (3)
Fall
3 hours lecture per week
Prerequisites: RAD 142, 150
Corequisites. RAD 200, 200L, 240, 248
Advanced principles of radiographic exposure.
Upon successful completion of this course, the student should be able to:
... Explain the manipulation of exposure factors.
... Explain procedure in radiography involving the use of contrast media.
... Explain the methods of pediatric radiography.
... Explain certain changes that occur in disease and injury and their application to radiologic technology.
... Explain advanced principles of imagery and technique.
. . . Describe computer applications in radiology.

## 220 Departmental Administration (1)

Spring 1 hour lecture per week
A study of administrative procedures, personnel management, and the legal and financial aspects of radiology.
Upon successful completion of this course, the student should be able to:
... Explain the organization, function, supervision and financial arrangements relative to the department of radiology.
... Explain the role of union in relationship to radiology department administration.
... Discuss quality assurance in radiology.

230 Special Radiographic Procedures (3)
Spring
3 hours lecture per week
Prerequisites: RAD 200, 210, BIOL 130
Corequisites: RAD 220, 230L, 241, 249
Insight into special radiographic imaging and accessory equipment.
Upon successful completion of this course, the student should be able to:
... Describe each special radiographic procedure in terms of: patient preparation, contrast mediumemployed, general procedural methods, method of administering contrast media, special equipment utilized, projections required and anatomy visualized.
. . . Describe the function of pneumo chairs and patient cradle.
. . Explain the basic function of basic physiologic monitoring equipment.
... Describe the special needles, guide wires and catheters required for each special procedure.
... Label the component parts, and explain how each type of changer works in a clinical situation.
... Describe the procedural steps involved in the Seldinger technic and lumbar puncture.
... Distinguish between the different modes of imaging systems.
... Analyze the types of image intensification system.
... Describe new types of image detector principles.

## 230L Special Radiographic Procedures Laboratory (1) Spring

 3 hours lab per weekPrerequisites: RAD 200, 210, BIOL 130
Corequisites: RAD 220, 230, 241, 249
Lab to accompany RAD 230.
Upon successful completion of this course, the student should be able to:
... Demonstrate mastery of tasks taught in RAD 220 and 230.

## 248 Radiographic Film Critique III (1)

Fall
1 hour lecture per week
Prerequisites: RAD 142, 150
Corequisites: RAD 200, 200L, 210, 240
Problems seminar; advanced film critique stressing procedures using contrast material; pediatric radiography.
Upon successful completion of this course, the student should be able to:
... Recognize, describe and change the prime factors of radiography by correlation of knowledge gained in lecture and lab classes.
.. Recognize, describe and change the factors which affect the radiographic quality of a film by correlation of knowledge gained in lecture and lab classes.
... Correlate knowledge of anatomy and physiology with radiographic procedures performed during RAD 240.

## 249 Radiographic Film Critique IV (1)

Spring
1 hour lecture per week
Prerequisites: RAD 200, 200L, 210, 240, 248
Corequisites: RAD 230, 230L, 241

Problems seminar; advanced film critique stressing films mode during special procedures.
Upon successful completion of this course, the student should be able to:
. . . Recognize, describe and change the prime factors of radiography by correlation of knowledge gained in lecture and lab classes.
... Recognize, describe and change the factors which affect the radiographic quality of a film by correlation of knowledge gained in lecture and lab classes.
Correlate knowledge of anatomy and physiology with radiographic procedures performed during RAD 241.

## 255 Applied Radiologic Principles (1)

Spring
1 hour lecture per week
Prerequisite: Satisfactory completion of third semester of Radio-

## logic

Technology (RAD) program
Corequisite: All major courses in 4 th semester of RAD program. Synthesis and correlation of imaging techniques as related to basic principles of radiography and implications of emerging technology.
Upon successful completion of this course, the student should be able to:
... Describe all aspects of radiographic imaging principles and procedures.
. Describe impact of emerging technology in diagnostic imaging on radiography.
... Demonstrate responsibility for continuing education.
... Demonstrate proficiency in the following areas:
Radiation protection
Equipment operation and maintenance
Image production and evaluation
Radiographic procedures
Patient care and management
260 Radiation Biology and Protection (2)
Summer
4 hours lecture per week for eight weeks
Prerequisites: Satisfactory completion of 4 th semester of
Radiologic Technology program
Corequisite: RAD 242
Effects of ionizing radiation in biologic systems; application to radiography, radiation therapy and nuclear medicine; importance of minimizing exposure and proper techniques.
Upon successful completion of this course, the student should be able to:
... Describe the effects of ionizing radiation in a given biologic system.
. . Understand the importance of minimizing radiation exposure.
. . . Cite the importance of specific proper techniques in minimizing exposure.
... Demonstrate an understanding of radiobiology as it pertains to radiography, radiation therapy and nuclear medicine.

## Hospital Radiographic Technique

Courses in this area provide approximately 2200 hours of clinical experience in the radiology department of a cooperating hospital.

These experiences include observation of and practice in positioning the sick and injured patient, obtaining the exact radiograph requested by the physician and assisting in treatment of disease. Film exposure time, film manipulation and the finished radiograph are critically studied. Throughout the Iwo academic years and interim summer, certain approved radiographs must be completed. These, by location, include radiographs of extremities, gastrointestinal tract, urinary tract, skull (sinuses, facial bones, mastoids, mandible), spine, pelvis (hip-nailing), shoulder and thoracic cage and cavity (lungs, heart, and sternum).

## 140 Hospital Radiographic Technique (6)

Fall Upon successful completion of this course, the student should be able to:
... Demonstrate knowledge of safe correct radiographic technique and positioning with emphasis on the chest, abdomen, upper extremity, shoulder girdle, lower extremity, hip joint and pelvic girdle.
. . . Demonstrate knowledge of adapting technical factors to meet the clinical situation.
... Demonstrate correlation of anatomy and physiology and radiographic procedures and techniques.

## 141 Hospital Radiographic Technique (6)

Spring
Upon successful completion of this course, the student should be able to:
. . . Demonstrate knowledge of safe correct radiographic technique and positioning with emphasis on the skull, facial bones, spine and bony thorax.
. . . Demonstrate knowledge of adapting technical factors to meet the clinical situation.
... Demonstrate correlation of anatomy and physiology and radiographic procedures and techniques.

## 142 Hospital Radiographic Technique (6)

Summer
Upon successful completion of this course, the student should be able to:
... Demonstrate knowledge of safe correct radiographic technique and positioning with emphasis on the cranium and bedside radiography of the chest, abdomen and skeletal system.
. . . Demonstrate knowledge of adapting technical factors to meet the clinical situation.
... Demonstrate correlation of anatomy and physiology and radiographic procedures and techniques.

240 Hospital Radiographic Technique (6) Fall Upon successful completion of this course, the student should be able to:
... Demonstrate knowledge of safe correct radiographic technique and positioning with emphasis upon radiographics examinations using contrast media of the gastrointestinal and urinary systems.
... Demonstrate knowledge of adapting technical factors to meet the clinical situation.
... Demonstrate correlation of anatomy and physiology and radiographic procedures and techniques.
... Demonstrate knowledgeof pediatric radiography.
241 Hospital Radiographic Technique (6)
Spring
Upon successful completion of this course, the student should be able to:
. . . Demonstrate knowledge of safe correct radiographic technique and positioning with emphasis on special radiographic examinations and imaging techniques studied in RAD 230 and 230L.
. . . Demonstrate knowledge of adapting technical factors to meet the clinical situation.
... Demonstrate correlation of anatomy and physiology and radiographic procedures and techniques.

242 Hospital Radiographic Technique (6)
Summer 36 hours clinical per week for nine weeks
Prerequisites: Satisfactory completion of fourth semester of RAD program
Corequisite: RAD 260
Hospital clinical experience with emphasis on experiences in operating room examinations with an advanced level of safe, correct radiographic technique and positioning, adaptation of technical factors to meet the clinical situation and correlation of anatomy and physiology to radiographic procedure and techniques. Includes rotation in either nuclear medicine or radiation therapy.
Upon successful completion of this course, the student should be able to:
. . . Demonstrate knowledge of safe correct radiographic technique and positioning with emphasis on experiences in operating room examinations.
. . . Demonstrate knowledge of adapting technical factors to meet the clinical situation.
... Demonstrate correlation of anatomy and physiology and radiographic procedures and techniques.

$X$-ray students learn the proper positioning of the patient.
. . . Demonstrate introductory knowledge of clinical practice in either nuclear medicine or radiation therapy.
*270V Advanced Radiologic Technology I (1-3) Fall
1 hour leclure per week per credit
Prerequisites: Graduation from an Approved school of radiologic technology or consent of instructor
This course may serve as registry or licensing lest review and may be repeated for a maximum of six (6) credits. Approved by the American Society of Radiographic Technologists for evidence of continuing education points.
Upon successful completion of this course, the student should be able to:
.. Demonstrate knowledge of current technical information in the field of radiologic technology.
. Demonstrate responsibility for self-learning.


#### Abstract

*280 Advanced Radiologic Technology II (3) Spring 3 hours lecture per week Prerequisites: Graduate of an approved hospital school of radiologic technology, proof of current registration with the American Registry of Radiologic Technologists or licensure by the Hawai'i Board of Radiologic Technology, 3 credits of RAD 270 V or consent of instructor. Approved by the American Society of Radiographic Technologists for evidence of continuing education points. Upon successful completion of this course, the student should be able to:


. . . Exhibit a desire for continued interest in education by registering for additional courses loward graduation or by applying for graduation if requirements are met.
. . Demonstrate an ability to perceive situations as a future educator, supervisor, administrator, or specialized technologist.
... Properly interpret technical articles in professional journals.
. . . Engage in peer teaching.
*These courses are for continuing education and are not intended for regular students.


150 Introduction to the World's Major Religions (3) AH4 3 hours lecture per week
A historical survey of major world religions designed for an understanding and appreciation of these religions and of their cultural influence on history.
Upon successful completion of this course, the student should be able to:
. . . Recognize the essential characteristics which distinguish the major religious traditions of mankind.
. . Demonstrate knowledge of the basic components of each major religious tradition, such as its concept of the divine,
moral code, value system, rituals and art expression.
... Show awareness of the religious conflicts and trends of the modern world.
... Demonstrate a better understanding of their own religious background and that of the surrounding community.
... Express ideas and opinions clearly in writing.

## 151 Religion and the Meaning of Existence (3) AH4

 3 hours lecture per weekIntroduction to contemporary religious issues, their background and development, with emphasis on the question, "What is the meaning of existence?"
Upon successful completion of this course, the student should be able to:
. . . Demonstrate awareness of contemporary religious concerns.
. . . Recognize different responses toward issues such as the conflict between science and religion, problems of meaning and death and the human search for identity.
... Demonstrate an understanding of one's own religious view and values.
. . . Express ideas and opinions clearly in writing.

200 Understanding the Old Testament (3) AH4
201 Understanding the New Testament (3) AH4
3 hours lecture per week
Recommended preparation: REL 150 or 151
REL 200 studies the developing beliefs and practices of the Hebrew religion. REL 201 covers the origin and development of early Christianity, with special attention to Jesus and Paul.
Upon successful completion of REL 200 or REL 201, the student should be able to:
... Demonstrate awareness of the historical and literary context of the Old/New Testament.
... Show knowledge of modern Biblical interpretation and criti-

- cism.
. . Show an understanding of the major parts and types of literature contained in the Old/New Testament.
... Demonstrate recognition of how Old/New Testament teachings have shaped modern society and human understanding of self.


## 209 Contemporary Religions (3) AH4

3 hours lecture per week
Recommended preparation: Qualification for or completion of ENG 100 or 160
Study of contemporary Iransformations of traditional religions and new expressions of religion in the 20th century.
Upon successful completion of this course, the student should be able to:
... Demonstrate insight into the social pressures and influences on traditional religions.
... Give examples of transformations in traditional religions.
. . Show recognition of influences from traditional religions at work in the modern world.
... Show awareness of distinguishing characteristics of new religions.
... Demonstrate understanding of religious ideas in contemporary culture.
. . Show recognition of important modern religious figures.
. . . Express ideas and opinions about modern religion clearly in writing.

## PRCPR $C A P R$ R

110 Clinical Practice I (5)
16 hours clinical per week
Prerequisite: Admission to the Respiratory Care Program
Corequisite: RESP 113, 116
Performance of non-invasive respiratory care procedures and patient assessment skills.
Upon successful completion of this course, the student should be able to:
... Perform the respiratory care practitioner's role in patient assessment, documentation and communication of results.
. . . Safely and effectively administer various routine non-invasive respiratory care procedures in the lab and hospital setting.
... Safely and effectively perform various routine non-invasive cardiopulmonary diagnostic techniques.
... Perform Basic Cardiac Life Support techniques in the lab.

## 113 Respiratory Therapy Techniques I (3)

3 hours lecture per week
Prerequisite: Admission to the RESP Program
Corequisites: RESP 110, 116
Introduction to non-invasive respiratory care procedures and patient assessment skills.
Upon successful completion of this course, the student should be able to:
. . . Discuss the respiratory care practitioners role in patient assessment, documentation and communication of results.
... Discuss the indications, techniques, modifications and hazards of various routine non-invasive respiratory care procedures.
... Describe the proper techniques for various routine non-invasive cardiopulmonary diagnostic techniques.
. . . Discuss the elements of Emergency Medical Support and Basic Cardiac Life Support.

## 116 Respiratory Care Science I (3)

3 hours lecture per week
Prerequisite: Admission to the Respiratory Care program
Corequisites: RESP 110, 113
Selected topics in basic sciences for the respiratory care technician student.
Upon successful completion of this course, the student should be able to:
... Discuss the structure and function of the respiratory system.
... Discuss the structure and function of the cardiovascular system.
... Discuss the structure and function of the renal system and its relationship to the cardiovascular system.
... Describe cleaning and sterilization of medical equipment.
... Discuss basic principles of microbiology and their relationship to health and disease.
... Describe the process of respiration.
... Describe general principles of pharmacodynamics.
. . . Discuss commonly used cariopulmonary medications.
... Describe the safe administration of medications by the respiratory care practitioner.

## 120 Clinical Practice II (5)

16 hours lab
Prerequisite: Completion of Fall I RESP courses
Corequisites: RESP 123, 126, 127, 128
Introduces the technician student to advanced respiratory care procedures including airway management, arterial puncture and mechanical ventilation.
Upon successful completion of this course, the student should be able to:
. . . Perform the respiratory care practitioner's role in advanced patient assessment, documentation and communication.
... Safely and effectively perform advanced respiratory care procedures in the lab and hospital setting with entry-level proficiency.
... Effectively interact with other allied health personnel in the intensive care unit.

123 Respiratory Care Techniques II (3)
3 hours lecture per week
Prerequisite: Completion of Fall I semester of the Respiratory Care Program
Corequisites: RESP 120, 126, 127, 128
Introduction to advanced respiratory care techniques and patient assessment skills.
Upon successful completion of this course, the student should be able to:
... Discuss the indications, equipment, techniques, modifications and hazards of advanced respiratory care techniques.
... Describe the respiratory care practitioners role in the Intensive Care Unit.
... Discuss ethical considerations in intensive care.

## 126 Respiratory Care Science II (3)

## 3 hours lecture per week

Prerequisite: Completion of Fall I Respiratory Care courses
Corequisites: RESP 120, 123, 127, 128
Introduction to mechanical ventilation and applied physiology of critical care practice.
Upon successful completion of this course, the student should be able to:
... Classify and analyze the function of mechanical ventilator systems commonly used in the United States.
... Describe the use of 10 ventilator modalities.
... Perform calculations of physiologic equations.
. . . Recognize the need to modify therapy based on assessment of interventions and monitoring.

127 Cardiopulmonary Pathophysiology (2)
2 hours lecture per week

Prerequisite: Completion of Fall I Respiratory Care courses Corequisites: RESP 120, 123, 126, 128
introduction to disease processes, examination of cardiopulmonary and related diseases and relationships to therapeutic interventions.
Upon successful completion of this course, the student should be able to:
... Define and describe classic characteristics of cardiopulmonary diseases and conditions.
... Discuss the etiology, pathology, diagnosis, prognosis and treatment of common cardiopulmonary diseases.
. . . Complete a concise written and oral case presentation to the class.
.. . Relate chronic cardiopulmonary diseases and conditions to appropriate rehabilitative techniques.

## 129 Pulmonary Diagnostic Techniques (4)

3 hours lecture, 3 hours lab per week
Introduces the technician student to pulmonary laboratory techniques including blood gas sampling, analysis, interpretation, and instrumentation; bronchoscopic lung examination; bedside pulmonary function testing; routine pulmonary function laboratory methods and equipment. Emphasizes interpretation of test results and correlation to disease states and appropriate therapeutic interventions.
Upon successful completion of this course, the student should be able to:
. . . Perform routine Pulmonary Function Tests.
... Interpret Pulmonary FunctionTtest results.
. . . Describe the operating principles of Pulmonary Function Tests equipment.
... Describe technique for all common Pulmonary Function Tests.
... Relate test results to pathologic states and appropriate interventions.
... Identify materials and methods used in blood gas analysis.
... Interpret blood gas results.
. . . Relate blood gas results to pathologic states and appropriate interventions.
... Discuss techniques to promote patient and practitioner safety.
... Describe instrument operating principles and quality assurance procedures.
... Describe equipment needed for bronchoscopic examinations.
... Describe the practitioner role in bronchoscopic examinations.
... Describe non-invasive techniques for assessing oxygenation.
. . . Perform bedside Pulmonary Function Tests maneuvers.
... Perform arterial blood gas sampling and analysis.

131 Clinical Practice III (3)
16 hours lab per week for 8 weeks
Prerequisite: Completion of Spring I Respiratory Care courses Corequisites: RESP 133, 136
Designed to facilitate enhancement of technician critical care skills, increase ability to perform routine tasks to practitioner entry level and permit observation and participation in special procedures. Upon successful completion of this course, the student should be able to:
... Perform routine and critical respiratory care skills at a level consistent with national and local expectations for technicians.
... Observe and participate in specialized respiratory care procedures.

136 Respiratory Care Seminar (3)
5 hours leclure per week for 8 weeks
Prerequisite: Completion of Spring I Respiratory Care courses Corequisites: RESP 131, 133
Designed to develop a comprehensive perspective of respiratory care, and prepare for the board examinations (Entry Level Exam).
Upon successful completion of this course, the student should be able to:
... Pass the comprehensive Technician program examination.
... Complete ten clinical simulations.
... Complete the National Board of Respiratory Care Self Assessment Exam.
. . Complete three practice Entry Level Exam.
... Develop a study plan for the Entry Level Exam.
... Relate diagnosis, clinical condition, physical findings, therapeutic interventions and modifications per the Entry Level Exam matrix.

210 Clinical Practice V (5)
16 hours lab per week
Prerequisite: Completion of Fall semester of Respiratory
Therapist Program
Corequisites: RESP 213, 226
Clinical practice in specialized neonatal and pediatric respiratory care.
Upon successful completion of this course, the student should be able to:
... Administer medical gas, aerosol and humidity and chest therapy to infants and children.
.. Select and assemble ventilator systems.
... Perform complete ventilator checks.
Perform assessment.


Photo by Bryan Sekiguchi
Respiratory care student examines an x-ray of the lungs.
... Resolve clinical and technical problems.
... Document care.
... Perform ventilator weaning.

## 213 Neonatal/Pediatric Respiratory Care (2)

## 2 hours lecture per week

Prerequisite: Completion of second Fall semester of Respiratory
Therapist program
Corequisites: RESP 210, 226
Didactics in specialized neonatal and pediatric respiratory care.
Upon successful completion of this course, the student should be able to:
... Discuss embryonic and fetal lung development.
... Identify anatomy and physiology of fetal respiratory and cardiovascular systems.
... Describe changes that occur at birth.
... List normal values for lab data and vital signs.
... Discuss common neonatal/pediatric diseases/conditions.
. . . Identify differences between adult and pediatric respiratory care techniques.
... Describe all aspects of neonatal/pediatric mechanical ventilators and ventilator care.
Discuss long-term care and outcome for selected conditions.
Discuss ethics in care of neonates.

216 Advanced Pharmacology/Pulmonary Function Testing (2) 2 hours lecture per week
Prerequisite: Acceptance into Respiratory Therapist Program Corequisite: RESP 217, 220, 223
Basic principles of pharmacology and pulmonary function testing; pharmacologic interventions and advanced pulmonary function techniques.
Upon successful completion of this course, the student should be able to:
. . . Identify and discuss use of all drugs commonly administered in emergency and intensive care settings and all drugs used by the respiratory care practitioner.
... Recommend, describe and interpret the results of advanced cardiopulmonary laboratory diagnostic techniques.

## 217 Respiratory Care Administration (2)

2 hours lecture per week
Prerequisite: Acceptance in Respiratory Therapist program
Corequisites; RESP 216, 220, 223
Survey of supervisory, management, educational and utilization and review techniques.
Upon successful completion of this course, the student should be able to:
... Describe organization of the hospital and respiratory care department.
... Discuss management styles and techniques.
. . . Role play common supervisory situations.
... Describe the utilization and review process.
. . . Write staffing schedules, equipment requests, training programs, disciplinary actions and budgets.
. . . Discuss reimbursement and the financial relationships between various parts of the health care system.

Present a structured inservice.
... Complete a project related to the course content.
. . Write a resume using a computer.

## 220 Clinical Practice IV (5)

16 hours clinical per week
Prerequisite: Acceplance into Respiratory Therapist program
Corequisites: RESP 216, 217, 223
Clinical practice requiring mastery of intensive respiratory care skills. Upon successful completion of this course, the student should be able to:
... Perform routine ventilator care with minimal supervision.
... Assist in instruction of technician students in the Intensive Care Unit.
. . . Perform advanced practitioner skills under direct supervision.
.. . Improve time and task management to entry-level standards for therapists.
Assist in special procedures.
Complete patient evaluation/care plans.

## 223 Intensive Respiratory Care (3)

3 hours lecture per week
Prerequisite: Admission to Respiratory Therapist program
Corequisites: RESP 216, 217, 220
Didactics in specialized adult critical care.
Upon successful completion of this course, the student should be able to:
... Discuss application of non-standard methods of ventilation.
... Relate hemodynamic monitoring information to therapeutic interventions and pathologic states.
... Discuss ventilator care and complications.
. . . Analyze case studies and suggest interventions.
... Evaluate weaning parameters and procedures.
... Discuss ethico-legal issues in intensive care medicine.
226 Advanced Cardiopulmonary Pathophysiology (3)
3 hours lecture per week
Prerequisite: Completion of second Fall semester of Respiratory
Therapist program
Corequisiles; RESP 210,213
In-depth study of cardiopulmonary diseases and conditions.
Upon successful completion of this course, the student should be able to:
... Describe all aspects of related rehabilitation and homecare techniques.
... Completefive written and 10 computerized clinical simulations.
... Discuss diagnosis, etiology, pathology and treatment of all major cardiopulmonary diseases and conditions.
... Complete the National Board of Respiratory Care Self Assessment Exams.
. . Complete three practice written registry exams.
... Complete a studyplan for the National Board of Respiratory Care Registry Exams.

250 Basic Cardiac Arrhythmias (3)
3 hours lecture per week
Prerequisite: BIOL 22, 130 or ZOOL 141
Cross-listed as MEDAS 250

Survey of cardiac anatomy and function, electrophysiological properties of the heart, common rhythms and arrhythmias.
Upon successful completion of this course, the student should be able to:
... Identify the basic anatomy of the heart.
... Describe coronary circulation and the conduction system of the heart.
... Discuss the heart's systemic and pulmonary circulation.
. . . Discuss each phase of the cardiac cycle.
... Describe the electrophysiological properties of the heart.
. . . Discuss the nervous control of the heart.
. . . Demonstrate correct lead placement for the common monitoring leads.
. Identify and describe how the electrical activity of the heart is represented on the electrocardiograph.
. Identify common cardiac rhythms and arrhythmias.
... Describe the treatment for each arrhythmia.
... Identify commonly used pacemakers and how they are represented on the electrocardiograph.
. Identify patterns of myocardial infarction on the electrocardiograph.


101 Elementary Russian I (4) FL

## 3 hours lecture, 2 hours lab per week

Development of listening, speaking, reading and writing skills in Russian. Independent lab work required.
Upon successful completion of this course, the student should be able to:
. . . Recognize and produce the sounds of Russian; understand the concepts of voiced and voiceless sounds, "hard" and "sof"t sounds and the environments where these sounds occur; observe the reduction of the pronunciation of " o " and " e " in unstressed syllables.
... Be able to recognize and correctly use the first five sentence intonational constructions of Russian (IC-1,2,3,4 and 5).
... Recognize and correctly produce the Russian script used for writing by hand and recognize the Russian system of printed letters used in all printed materials (books, magazines, newspapers).
... Be able to understand and read aloud with correct pronunciation and intonation sentences and complete texts that contain familiar words.
... Be able to recognize the grammatical form and sound of the intonation of the four basic types of Russian questions: questions with a question word, formal questions, yes-no questions, and either-or questions; be able to answer these questions with the correct form and to orally create such questions to obtain needed information.
... Understand and participate in conversations that use the basic grammatical structures and words the student has learned.
Be abie to conjugate verbs in the present and past tenses, to the basic difference in meaning between imperfective and perfective verbs, to have an elementary knowledge of two of the basic verbs of motion and an elementary knowledge of the differences
in expressing location and direction in Russian.
. . . Be able to form and use the singular forms of the nominative, inanimate accusative, prepositional and dative cases and the plural forms of the nominative and inanimate accusative.
. . . Correctly use or omit the Russian verb "to be" in the three types of sentence where the use of this verb is problematical.

## 102 Elementary Russian II (4) FL

3 hours lecture, 2 hours lab per week
Continuation of RUS 101. Further development of listening, speaking, reading and writing skills in Russian. Independent lab work required.
Upon successful completion of this course, the student should be able to:
... Understand and participate in conversations that use the basic grammatical structures and words that the student has learned.
... Be able to make suggestions using the imperative and other means.
... Express states of physical comfort or discomfort.
. . . Be able to express the absence or non-existence of something.
... Recognize and use the basic verbs for teaching and learning in Russian.
... Be able to express and use time and date constructions that include the names of the months.
... Be able to conjugate verbs in the future tense.
... Be able to request, give and deny permission.
... Be able to form and use the forms for the prepositional plural, genitive singular, animate accusative singular and instrumental singular of nouns and modifiers.

## 201 Intermediate Russian I (4) FL

3 hours lecture, 2 hours lab per week
Prerequisite: RUS 102 or equivalent
Continuation of RUS 102. Further development of listening, speaking, reading and writing skills in Russian. Independent lab work required.
Upon successful completion of this course, the student should be able to:
... Improve pronunciation and intonation, increase ability to use familiar words and increase oral comprehension skills.
... Recognize and understand participial and verbal adverb constructions that are common in Russian newspaper texts and formal writing.
... Know and use all of the singular and plural case endings of Russian nouns and adjectives.
... Read with comprehension texts that contain familiar words as well as a number of unfamiliar words. The meanings of the unfamiliar words should be obtained from the surrounding context, word-building principles and the judicious use of a separate dictionary.
... Increase active knowledge of Russian lexical units by about 600.
... Gain an increased ability to act and react correctly with respect to certain speech functions and speech situations in Russian: greeting other persons, beginning a conversation, getting the attention of a stranger, expressing apologies and regrets, introducing one's self and making other introductions.
... Know more about Russian culture from the situations presented in texts and dialogues.
. . . Compose paragraphs in Russian on suggested topics.

## 202 Intermediate Russian II (4) FL

## 3 hours lecture, 2 hours lab per week

Prerequisite: RUS 201 or equivalent
Continuation of RUS 201. Further development of listening, speaking, reading and writing skills in Russian. Independent lab work required.
Upon successful completion of this course, the student should be able to:
...
Improve the quality of their speech with respect to pronunciation and intonation, have increased their ability to use the words they know and have increased their oral comprehension skills.
. Read with comprehension texts that contain familiar words as well as a significant number of words unfamiliar to them. The meanings of the unfamiliar words should be obtained from the surrounding context, word-building principles as well as the judicious use of a separate dictionary.
Write correctly short original compositions.
. Enlarge the number of Russian lexical units that they know aclively by about 600 .
... Gain an increased ability to act and react correctly with respect to the following speech functions and speech situations in Russian: using public transportation; using the public telephone and postal service; making a request or asking a favor; requesting permission; granting or refusing permission; expressing congratulations and greetings (birthday greetings, holiday greetings, congratulations, expressing best wishes of good luck, toasts, expressions of gratitude and responses); expressing distress, anxiety, and agitation; expressing sympathy and reassurance; expressing compliments; expressing approval, responding to compliments.
Recognize the meaning of verbal prefixes.
... Know more about Russian classical and everyday culture from the situations presented in texts and dialogues.


Photo by Brock Pemberton Sludents sludying a foreign language have access to interactive multi-media programs in the Language Lab.

## SALES AND MARKETING (SMKT) <br> 

## 20 Principles of Marketing (3)

3 hours lecture per week
Recommended Preparation: BUS 20
An introductory course to theories and principles of marketing. Emphasis is on understanding the importance of every channel of distribution, market research and marketing application. Consumer buying preferences and buying behavior are examined. The student should be able to apply basic principles and concepts of product selection and development, marketing research, promotion, channels of distribution and pricing to market goods and service in a free enterprise economy.
Upon successful completion of this course, the student should be able to:
... Understand the marketing philosophy and functions.
Understand the consumer-oriented approach to marketing.
Demonstrate an understanding of consumer goods and industrial goods.
Understand methods in marketing and market research.
Understand basic concepts of retailing, wholesaling and physical distribution.
... Understand basic concepts of advertising, personal selling, sales promotion and public relations.
... Evaluate a marketing application.

## 30 Principles of Retailing (3) <br> 3 hours lecture per week

Recommended Preparation: BUS 20 and SMKT 20
An introductory review of retailing and its relationships in the marketing and free enterprise system. Emphasis is on the basic function of a retail store, finance, inventory and expense control, operations, personnel, merchandise and sales promotion.
Upon successful completion of this course, the student should be able to:
. . . Recognize the role of retailing in the free enterprise system.
... Identify factors that influence consumer buying behavior.
... Apply concepts and principles of store organization, operations and supervision.
. . . Understand the basic concepts of store location, design and layout.
... Apply the principles and practices of the buying function.
... Apply concepts and principles of merchandise and expense control systems.
... Understand facts and principles of credit and collections.
... Recognize the significance and lechniques of retail promotion.

## 50 Principles of Personal Selling (3)

3 hours lecture per week
A study of the principles and methods and their role in the marketing process. Emphasis is on the sales process and the various aspects involved in making a sales presentation. Students will select a
product, serviceor intangible, develop a complete sales presentation and role play the presentation for analysis and evaluation.
Upon successful completion of this course, the student should be able to:
... Understand the nature of selling.
... Demonstrate an understanding of the various sales principles and methods, steps in the sales process and the aspects involved by developing and role playing a sales presentation.
. . . Recognize and understand terminology associated with the field of selling.
... Apply course material to pursue a successful sales career and/ or to Improve existing selling skills to be more effective.

## 52 Principles of Sales Management (3)

3 hours leclure per week
Prerequisite: SMKT 50

## Recommended Preparation: SMKT 20

An introductory course on sales management providing an integration of personal selling and sales management, including planning, organizing, developing and directing the sales force. The methodologies for evaluating sales force performance and the functions of sales management are emphasized.
Upon successful completion of this course, the student should be able to:
... Understand the scope and purpose of sales management.
. . . Understand the methodologies used to measure sales management performance.
... Measure markets and forecast sales.
... Compute allocation of resources, including budgets and quotas.
. . . Use preferred parameters for recruilment, training, motivating and compensating salespersons.
... Understand leadership and supervision techniques used in an effective sales management program.

## 60 Principles of Advertising (3)

3 hours lecture per week
Recommended Preparation: BUS 20 and SMKT 20
An introduction to advertising and its marketing role in selling a product. A non-technical, practical approach involving basic media evaluation, media rates and purchasing methods and advertising creation and production.
The student should be able to manage the application of skills in areas of marketing research in advertising, selection of media, evaluation and testing of advertising effectiveness and writing and designing of advertising copy.
Upon successful completion of this course, the student should be able to:
. . Understand the dynamics of society and the advertiser's response to change.
... Demonstrate the ability to plan an advertising program.
... Demonstrate the correct usage of selecting advertising media.
... Understand advertising media.
... Understand how advertising agencies work.
... Understand the legal and ethical restraints on advertising.

## 60L Principles of Advertising Lab (1)

## 2 hours lecture/lab per week

Prerequisite: credit or concurrent registration in SMKT 60 Recommended Preparation: BUS 20 and SMKT 20
A hands-on course in correct usage of selecting advertising media, appropriate selection of proper merchandise to advertise, writing proper newspaper copy, creativity and production of broadcast media and elements of display, design and arrangement.
Upon successful completion of this course, the student should be able to:
... Produce and direct a TV commercial as well as a radio commercial.
... Write appropriate copy and do layout for a magazine and newspaper.
... Design a display window with proper lighting.
... Be able to evaluate advertisements and displays.

66 Principles of Publicity and Public Relations (3)
3 hours lecture per week
Prerequisite: SMKT 20 and ENC 50 or 160
Recommended Preparation: SMKT 60
An introduction to publicity and public relations including methods of informing, persuading and integrating information to create a positive image. Public relations helps our society to reach decisions and function more effectively by contributing to mutual understanding among groups and institutions. The management of institutions needs to understand the attitudes of its public in order to achieve institutional goals.
Upon successful completion of this course, the student should be able to:
... Understand the role publicity and public relations play in the marketing scheme.
... Write effective public relations/publicity copy.
... Develop visibility in a Public Relation program.
. . Implement a simulated Public Relation program from start to finish.
. . Work with media in Public Relation and publicity events.

## 80 International Marketing (3)

3 hours lecture per week
Recommended Preparation: BUS 20 and SMKT 20
International marketing is the performance of business activities that direct the flow of goods and services to consumers or users in more than one nation. By recognizing the uniqueness of foreign markets, their unfamiliar problems and varied strategies, the student will study marketing in a new setting, a different environment and a different culture.
Upon successful completion of this course, the student should be able to:
... Understand the scope and challenge of international marketing.
... Understand the world marketing environment to include the role of cultural dynamics in foreign markets, business customs and practices, political considerations and legal environment.
. . . Demonstrate the ability to apply general marketing concepts to the international marketing environment.

## 93V Cooperative Vocational Education (1-3)

1 hour lecture per week, supervised work on the job, three hours work experience for each credit.
Recommended Preparation: SMKT 20, 30, 50, and 60
A work study course providing opportunities to reinforce skills learned in Sales and Marketing courses by applying them in an actual job situation.
Upon successful completion of this course, the student should be able to:
... Gain added insight into the occupation of the student's choice through meaningful Sales and Marketing industry experience.
. . . Demonstrate the ability to utilize classroom concepts in industry work situations.


50 Basic Conversational Samoan (3)
3 hours lecture per week
Introduction of basic conversational Samoan incorporating useful everyday expressions. Practical vocational vocabulary will be introduced. Samoan culture will be integrated into the study of the language.
Upon successful completion of this course, the student should be able to:
... Recognize 35 Samoanized English words.
. . . Reproduce orally 15 everyday greetings.
. . . Demonstrate orally the counting system of numbers in Samoan.
.. . Name six basic colors in Samoan.
. . . List of months, weeks, and days in Samoan.
. . . Recognize Samoan foods in a store and be able to name them.
. . . Demonstrate how to accurately ask for geographical directions.
. . . Identify 20 parts of the human body in Samoan.
. . . Tell time and correctly ask for the time in Samoan.
. . . Recognize Samoan non-verbal communication using head, eyebrows, fingers and shoulders.

101 Elementary Samoan I (4) FL
3 hours lecture, 2 hours lab per week
Development of listening, speaking, reading and writing skills in Samoan. The structure of the language will be taught inductively. Samoan history and culture will be integrated into the study of the language.
Upon successful completion of this course, the student should be able to:
. . Recognize and represent in speech and writing the basic phonological, morphological, and syntactical features of Samoan.
... Acquire a basic vocabulary consisting of approximately 350 words and expressions dealing with commonly encountered objects, situations and ideas.
.. Understand and participate in conversations that use the basic vocabulary.
... Read Samoan texts that use the basic vocabulary.
. . Write properly formed sentences and brief compositions in Samoan, using the basic vocabulary and proper orthography.
... Appreciate and use idiomatic nuances and bodily gestures common to native speakers of Samoan.
... Understand the special significance of words in songs, provenbs and ceremonial speech.

102 Elementary Samoan II (4) FL
3 hours lecture, 2 hours lab per week
Prerequisite: SAM 101 or consent of instructor
Development of listening, speaking, and reading skills in polite Samoan. Oratorical Samoan wiil be introduced relative to cultural settings. Samoan culture will be integrated into the study of oratorical Samoan.
Upon successful completion of this course, the student should be able to:
... Recognize the basic difference between regular Samoan and oratorical Samoan.
... Recognize and use a basic vocabulary consisting of approximately 300 words and expressions in oratorical Samoan.
. . . Recognize oratorical speech in different settings.
. . . Understand a short passage written in polite style, using polite vocabulary.
... Write properly formed sentences and brief compositions in polite Samoan, using the basic vocabulary and proper orthography.
... Understand the spelling differences between written and spoken, formal and informal Samoan.

## 201 Intermediate Samoan I (4) FL

3 hours lecture, 2 hours lab per week
Prerequisite: SAM 102 or instructor's approval
Introduction to polite Samoan using basic colloquial Samoan. Development of transitional skills to interpret and translate from colloquial Samoan to polite Samoan through listening, speaking, and writing. Historical content of the culture in these two levels of Samoan will be integrated into the study of the language.
Upon successful completion of this course, the student should be able to:
... Recognize and represent in speech and writing the basic phonological, morphological and syntactical features of Samoan.
... Demonstrate a basic vocabulary consisting of approximately 250 words and expressions in formal Samoan (Gagana Fa'aaloalo).
. . . Understand basic formal Samoan.
... Read Samoan lexts that use the basic formal vocabulary. Write properly formed sentences and brief compositions in Samoan, using the formal vocabulary and proper orthography.
... Write letters and diaries more proficiently in formal Samoan.
... Appreciate and use idiomatic nuances and bodily gestures common to native speakers of Samoan.
... Understand the special significance of proverbs (Alagaupu) used in ceremonial speech (lauga).
... Have a deeper understanding and appreciation of the Samoan language and culture.

202 Intermediate Samoan II (4) FL
3 hours lecture, 2 hours lab per week
Prerequisite: Completion of SAM 201 or instructor's approval Continuation of SAM 201. Further development of listening and speaking skills in polite Samoan, integrating formal and informal Samoan. Samoan history and culture will also be covered.
Upon successful completion of this course, the student should be able to:
. . . Recognize and represent in speech and writing more complex phonological, morphological and syntactical features of Samoan.
. . Demonstrate a basic vocabulary consisting of approximately 350 words and expressions in formal Samoan (Gagana Fa'aaloalo).
. . Understand and use basic formal Samoan in paired conversations.
... Read more complex Samoan texts that use the basic formal vocabulary.
... Write properly formed sentences and brief compositions in Samoan, using formal vocabulary and proper orthography.
... Appreciate and use idiomatic expressions and bodily gestures common to native speakers of Samoan.
... Understand the special significance of complex proverbs used in ceremonial speech.
. . . Understand dialectical differences between American Samoa and Western Samoa.
... Have a deeper understanding of and appreciation for the Samoan language and culture.


## 21 Environmental Science (3)

## 3 hours lecture per week

An integrated approach to understanding the environment from the standpoint of science. Designed for the non-liberal arts major. Upon successful completion of this course, the student should be able to:
... Demonstrate knowledge of the basic principles of chemistry and physics.
. . . Demonstrate knowledge of the basic principles of ecosystem function and structure.
. . . Demonstrate knowledge and concern with the environment problems of pollution, energy, resources and depletion, and overpopulation.
... Demonstrate basic knowledge of the impact of technology on man and the environment.
... Analyze critically and formulate positions on selected issues.

121 Introduction to Science: Biological Sciences (3) NS1
3 hours lecture per week
Registration in SCI 121 L optional

Recommended preparation; CHEM 101 of higher level chemistry Characteristics of science, historical development of scientific concepts, and interaction of society with science illustrated by topics from biological science.
Upon successful completion of this course, the student should be able to:
. . Appreciate the complexities and interrelationships in nature. . Understand major biological concepts including evolution, classification, cell structure and function, genetics, energy acquisition and utilization, human biology, and ecology.
... Understand the scientific process, its characteristics, its limitations and its place in society.
Make informal decisions on biologically-related issues.

## 121L Biological Sciences Laboratory (1) NS1

3 discussion/lab hours per week
Prerequisite: Credit or registration in SCI 121
Laboratory experiments illustrating topics in the biological sciences.
Upon successful completion of this course, the student should be able to:
. . List the sequence of steps followed in the scientific method and understand the logic and significance of each step.
... Describe the many applications of the scientific method to everyday life.
. . . Demonstrate the proper techniques and procedures for microscopy, magnification, scientific illustrations, dissection, genetics, sampling techniques and other pertinent biological lab experiments.

122 Introduction to Science: Physical Science (3) NS2
3 hours lecture per week
Prerequisite: MATH 25 or its equivalent

## Registration in SCI 122 L optional

Characteristics of science and of the physical environment; topics from the physical sciences.
Upon successful completion of this course, the student should be able to:
... Demonstrate knowledge and understanding of some basic concepts and principles.
. . .Demonstrate insights into associations and relationships of the topics treated.
... Utilize elementary abstract thinking and analytical reasoning.
... Understand mathematical proportionality in physical principles.
... Utilize calculation techniques with mathematically formulated principles.
... Identify and assess quantitative information in terms of principles.
. . . Better utilize and control the physical environment.
... Understand the descriptions and principles of motion.
. . . Understand mechanical energy, power and efficiency.
... Understand thermal energy and the kinetic theory of matter.
. . Understand the basics of chemical bonding and reactions.

122L Physical Science laboratory (1) NS2
3 lab hours per week
Prerequisite: Credit or registration in SCI 122
Simple experiments in the physical sciences.
Upon successful completion of this course, the student should be able to:
... Demonstrate knowledge of the direct experience into some scientific concepts and principles.
. . . Demonstrate insights into the interaction between theory and experiment.
. . . Design procedures for acquiring information from experimentation.
... Record data, analyze data and extract information from data.
... Demonstrate skills at making quantitative determinations with formulations.
. . . Demonstrate some experience with the use of instruments and equipment.

124 Man, Technology and Ecology (3) NS3
3 hours lecture per week
Registration in SCI 124 L optional
Recommended preparation: CHEM 101 or a higher level chemistry or biochemistry course
Human ecology in the past, present and future viewed through an analysis of the relationships between science and technology; the means these provide for manipulation of the environment; and the effects of manipulation on the environment and human populations.
Upon successful completion of this course, the student should be able to:
... Demonstrate knowledge of the basic principles of ecosystem structure and functions.
... Demonstrate knowledge of the effects of technology on the environment and its impact on human life-style.
... Critically analyze and evaluate the values and limitations of technological progress.
... Demonstrate knowledge of and concern for global ecological problems of overpopulation, pollution, resource depletion, energy, etc.

124L Man, Technology and Ecology Laboratory (1) NS3 3 discussion/lab hours per week
Prerequisite: Credit or registration in SCl 124
Laboratory experiments and projects illustrating topics on human ecology.
Upon successful completion of this course, the student should be able to:
... Demonstrate the ability of critical thinking and logical reasoning through the use of scientific methods, research procedures and discussion groups.
.. . Develop laboratory skills and techniques, including skill in writing laboratory reports.
... Demonstrate responsibility and respect for one another.

## SOCIAL SCIENCES (SSCI)

21 Introduction to the Social Sciences I (3)
3 hours lecture per week
An introduction to the core disciplines which make up the social sciences.
Upon successful completion of this course, the student should be able to:
. . . Understand the state of the post-industrial world.
... Demonstrate basic knowledge of the impact of technology on the earth, society and human values.
... Critically analyze and formulate positions on selected issues of society.
... Use the various social sciences as means to understand the issues presented by the course.
... Examine personal values and formulate positions concerning social issues.

## 120 Hawai'i's People (3) AH2, SS

3 hours lecture per week
Recommended Preparation: Qualification tor or completion of ENG 100 or 160
History and sociology of immigration. Insight into: adaptation process of major immigrant groups, labor problems, urbanization, political and economic strategies.
Upon successful completion of this course, the student should be able to:
... Show an awareness of ethnic groups in Hawai'i and in the continental United States of America.
... Demonstrate familiarization with basic concepts in the social sciences and humanities.
... Show awareness, concern and a sense of responsibility for contemporary events, issues and problems related to the total environment.
... Demonstrate knowledge of the political, cultural, psychological, and sociological aspects of various ethnic groups.
. . Confront contemporary ethnic problems and relate them to the problems of society as a whole.
... Critically examine the values of these various ethnic groups and the student's own values and attitudes

## 200 Social Science Research Methods

3 hours lecture per week
Recommended Preparation: Qualification for or completion of ENC 100 or 160, MATH 27 and one 100 level course in Social Science.
The course focuses on the various ways social scientists carry out research. It introduces the student to research methods, decision making with statistics, and the use of computers to assist with statistical analyses.
Upon successful completion of this course, the student should be able to:
. . . Apply critical thinking skills to solve research problems.
... Demonstrate a basic understanding of research design.
... Perform elementary statistical analyses of data with computer assistance.
... Demonstrate research skills in an applied manner.


100 Survey of General Sociology (3) SS

## 3 hours lecture per week

Recommended Preparation: Qualification for or completion of ENG 100 or 160
Study of the nature of human society. Attention to American social institutions and the American value system. Consideration of the basic processes of social interaction and those factors which effect social change.
Upon successful completion of this course, the student should be able to:
... Demonstrate understanding of the process, assumptions and limitations involved in the scientific methods.
... Achieve understanding of the relationship of individuals and the social and cultural environment.
... Analyze alternative courses of action regarding particular societal problems on the basis of feasibility, acceptance by groups and accuracy.
... Analyze contemporary social events in the context of historical events.
... Demonstrate understanding of behavioral expectations in a variety of situations.
... Identify own strengths and weaknesses in group situations.
... Identify the basic social institutions of a society in terms of structure, function, change and interrelationship.
... Describe the basic social processes that affect societies' and individual's behavior.
... Demonstrate perception and knowledge of observable events in society.
... Express ideas and opinions clearly in writing.

## 218 Introduction to Social Problems (3) SS

3 hours lecture per week
Recommended Preparation: ENC 100, 160 or their equivalent Theoretical and substantive survey of the nature and causes of social problems; selected types to vary from semester to semester. Upon successful completion of this course, the student should be able to:
... Apply critical thinking skills to evaluate social problems.
... Detail and evaluate proposed solutions to social problems.
. . . Define sets of circumstances which become problematic for large segments of the population.
. . . Identify attitudinal changes toward social problems.
. . . Develop an objective approach to the observation and analysis of social problems in society.

231 Introduction to Juvenile Delinquency (3) SS
3 hours lecture per week
Recommended preparation: Qualification for or completion of ENG 100 or 160 and SOC 100
A sociological analysis of the social realities of juvenile delinquency in contemporary America its nature, prevalence, etiology, treatment and future.
Upon successful completion of this course, the student should be able to:
... Describe and define juvenile delinquency, in particular, socio-legal and statistical characterizations of that form of youthful deviance.
... Explain the underlying, finite and multiple causes of juvenile delinquency which refer in particular to the sociogenic, psychogenic and biogenic etiologies popularly offered in the sociological study of juvenile delinquency.
... Demonstrate awareness and understanding of official and unofficial reactions to youthful offenders, especially in light of victim and offender characteristics, juvenile Justice System policies and operations and community sensitivity to and reporting of the problem (victimization surveys) of delinquency.
. . Express ideas and opinions clearly in writing.

## 251 Introduction to Sociology of the Family (3) SS

 3 hours lecture per weekRecommended Preparation: Qualification for or completion of ENG 100 or 160
A study of courtship, marriage, and family relationships, interrelationships and problems in contemporary society.
Upon successful completion of this course, the student should be able to:
... Employ the sociological perspective and research methods in studying marriage and family.
. . . Recognize the basic sociological theories and concepts that have been employed in the study of marriage and family.
... Understand the origins of such basic institutions including their life cycles.
... Demonstrate understanding of diverse and universal forms of marriage and family and their impact on American Societies.
... Identify the major societal changes affecting marriage and family and their resultant institutional consequences.
... Demonstrate awareness of family dysfunction and its impact on society.
Recognize the family's role in modern society and speculate about the future of marriage and family as global institutions.

## 257 Sociology of Aging (3)

3 lecture hours per week
Recommended Preparation: ENG 100, 160 or their equivalent
This course is intended to provide an overview of the significant sociological perspectives, social issues and empirical social science research pertaining to the phenomenon of aging in sociely. Upon successful completion of this course, the student should be able to:
... Appreciate that aging is both a biological and social process.
. . . Develop an objective approach to the observation and analysis of aging in a modern society.
... Analyze the demographics of an aging society.
Evaluate and interpret social attitudes, values, and practices with respect to aging and appreciate how those may influence their life.
Identify attitudinal changes that accompany aging.


101 Elementary Spanish I (4) FL
5 hours lecture per week plus laboratory drill
A course designed for students with no background in the Spanish language. The student learns basic Spanish sentences, elementary grammar and a basic appreciation for the culture from which the language is derived.
Upon successful completion of this course, the student should be able to:
... Recognize the differences between the sounds of their native language and Spanish.
... Understand the meaning of words, word-groups and sentences.
... Reproduce the brief speech of the models established for the classroom.
... Apply orally a variety of brief answers to questions on familiar topics.
... Read aloud familiar materials.
... Read with understanding several paragraphs in which a majority of the structure elements are familiar, but the combination of elements or the order of presentation has been varied.
... Write with a reasonable degree of accuracy all materials dictated.
... Produce appropriale grammatical forms in familiar contexts.
. . . Vary a response in writing.
... Recall familiar facts of Hispanic and Latin American civilization presented in reading experiences.

102 Elementary Spanish II (4) FL
5 hours lecture per week plus laboratory drill
Prerequisite: SPAN 101 or equivalent
Continuation of SPAN 101.
Upon successful completion of this course, the student should be able to:
... Understand the meaning of words, word-groups and sentences beyond those studied in SPAN 101.
... Carry out familiar commands in Spanish.
... Produce with reasonable accuracy the phonetic sounds of the Spanish language and include the correct rhythm, stress and linking components.
. . . Express ideas on a comprehensible level.
... Demonstrate understanding of dialogues and passages by creating sentences based on textbook vocabulary and patterns.
... Read and understand several unfamiliar, coherent paragraphs which utilize learned concepts.
Apply knowledge of grammar to the creation of new sentences by responding correctly when given precise directions as to structures.
Recognize and recall vocabulary and lexical items, grammatical forms and patterns, word meaning and appropriate correspondences to idiomatic structures.
Recall familiar facts of Hispanic and Latin American civilizations presented in reading experiences.

## 201 Intermediate Spanish I (3) FL

3 hours lecture per week
Prerequisite: SPAN 102 or equivalent
Refinement of basic language skills acquired in SPAN 101, 102. Emphasis on vocabulary development and increased control over grammar and idioms, written and oral expression. Reading selections and videos on Hispanic culture and society are included. Upon successful completion of this course, the student should be able to:
... Understand everyday conversation about non-technical subjects at native speed in Spanish.


Photo by Bryan Sekiguchi
Dances of the Carribean were part of the program at the International Festival.
... Discuss non-technical subjects using appropriate grammar and vocabulary, demonstrating adequate mastery of present and some past tenses, common forms and object pronouns.
Write well-developed paragraphs showing mastery of vocabulary and structures of Intermediate Spanish I.
. . Read selected articles and literary excerpts of moderate difficulty.
. . . Be aware of the customs and cultures of Hispanic people.

## 202 Intermediate Spanish II (3) FL

## 3 hours lecture per week

## Prerequisite: SPAN 201 or equivalent

Continuation of SPAN 201. Further refinement of basic skills acquired in SPAN 101, 102 including vocabulary development beyond the SPAN 201 level. Increased control over grammar and idioms in written and oral expression. Reading selections and videos on Hispanic culture and sociely are included.
Upon successful completion of this course, the student should be able to:
. . . Read selected short excerpts from magazines, newspapers and literature about Hispanic society and culture, using a passive and active vocabulary of about 6,000 words.
Write one- to two-page compositions, demonstrating adequate mastery of past and past subjunctive tenses, conditional tense, expressions of obligation and correct use of "por" and "para."
... Discuss non-technical subjects using appropriate grammar and vocabulary, with acceptable pronounciation and fluency to be understood by a native-speaker.
... Further awareness and knowledge of Hispanic customs and cultures gained in SPAN 201.


## 51 Oral Communication Techniques (3)

3 hours lecture per week
Prerequisite: Satisfactory performance on informal speech screening during the first week of instruction
A study of principles of oral communication designed to develop skills and understanding needed in business and in daily life. Includes modules in Interpersonal Communication, Small Group Communication, and Presentational Communication.
Upon successful completion of this course, the student should be able to:

Module 1: Interpersonal Communication
... Demonstrate an understanding of the importance of nonverbal communication and listening in the one to one situation.
... Conduct an interview and respond appropriately in an interview.
Module 2: Small Group Communication
... Demonstrate understanding of group dynamics.
. . . Apply appropriate steps in the process of sharing information and problem solving in a small group situation.

Module 3: Presentational Communication
. . Analyze the audience.
... Select appropriate topics and support materials.
... Organize materials effectively.
. . . Develop critical listening skills.
... Deliver ideas effectively

## 151 Personal and Public Speech (3) OR

3 hours lecture per week
Recommended preparation:L Qualification for ENG 100 or 160 A course designed to help students develop oral communication skills vital in career and personal life. The focus is on principles and skills of effective communication in personal interviews, small group discussions and public speeches.
Upon successful completion of this course, the student should be able to:
. . Understand and apply principles of effective verbal and nonverbal communication in interpersonal, small group and public speaking situations.
. . . Apply skills of effective listening.
. . . Prepare and conduct informational interviews.
... Participate effectively in small group discussions.
... Analyze audiences and adapt a messages to listeners.
... Research, organize, outline and present informative and persuasive speeches.
... Critically evaluate claims and supporting evidence.
... Understand and appreciate differences between written and spoken messages.
. Speak with greater self-confidence in personal and public situations.
... Write clear and organized interview, small group and public speech outlines.
... Write clear, specific and organized self-evaluation papers..
200 Speaking Skills for Prospective Teachers (3)
3 hours lecture per week
Recommended Preparation: Placement in ENG 100, 160 or ESL 100 (13.0 or higher); or placement in ENG 100 or 160 via writing sample test, or instructor recommendation
Practice and activities to develop competence in speaking skills useful in the classroom setting (e.g. appraisal interview, group discussion, lecture and lecture/discussion). Emphasis and focus on educational issues; designed especially for pre-education majors. Upon successful completion of this course, the student should be able to:
... Explain the nature of the speech process and the importance of speech communication in the classroom.
. . . Explain the role self-concept plays in personal development and in the teaching/learning process.
... Describe the factors of person-to-person speech and apply appropriate interpersonal speaking skills.
... Recall the definition of an interview and recognize the importance of verbal and nonverbal communication, role differences, listening and defensiveness in the interview process.
. . . Demonstrate understanding of how to prepare, conduct, and evaluate an informational interview; apply appropriate communication skills in the opening, body and closing of an interview; and evaluate one's performance as an interviewer.
. . . Give specific responses to an interviewees questions; clarify an interviewees question(s) or remark(s) when necessary; evaluate one's performance as an interviewee.
Apply the methods of conducting appraisal interviews.
Describe the nature of the small group communication process to include group types, factors influencing interaction and group development.
... Explain the importance of and participate appropriately in a discussion.
.. Use the problem-solving format in a problem-solving group.
. . . Recognize different types of task, maintenance and self-centered roles and use appropriate task and maintenance roles in group discussions.
.. . Fulfill the roles used as a chairperson or leader of a discussion by organizing and developing an agenda, moving a group through a discussion, using the agenda as a guide, developing skill in phrasing questions to stimulate group interaction, paraphrasing and synthesizing ideas in a discussion, and opening and closing a discussion.
... Describe the types of information that can be used in discussion and follow the appropriate steps in gathering information.
. . . Recognize the importance of obtaining student feedback.
. . . Analyze an audience (a class of students) and occasion, select and research a subject, amplify and support ideas appropriately and outline a presentation.
... Engage an audience (a class of students) in meaningful discussion through stimulating questions, responding to comments and encouraging participation.
... Recognize and apply the methods of organizing a lecture and a class discussion.
. . Recognize and apply methods of effective delivery to include appropriate voice and body movements and methods of transmitting ideas.

231 Interpretive Reading (3) AH1
3 hours lecture per week
Prerequisite: Satisfactory score on speech screening test Principles of interpretative reading. Practice in textual analysis and in transmitting intellectual and aesthetic content of literature. Upon successful completion of this course, the student should be able to:
. . . Demonstrate ability to use an in-depth process of literary analysis to understand and appreciate various selections from prose, poetry and dramatic literature.
. . . Demonstrate ability to properly utilize voice, speech and body to effectively and orally interpret and communicate to an audience orally selections from prose, poetry and dramatic literature.
... Demonstrate ability to effectively use emotion and imagination through recall and transference to bring the literary happenings alive in a creative experience.
... Demonstrate ability to listen critically and appreciatively to the oral presentation of various selections from prose, poetry and dramatic literature; and give evaluation feedback to peers.

## 251 Principles of Effective Speaking (3) AH1, OR

3 hours lecture per week
Prerequisite: SP 151 or ENG 100 or 160
Practice in speech composition and delivery. Emphasis is on
critical thinking, clear reasoning, appropriate support and lively delivery. Students present several prepared speeches and learn how to debate important topics.
Upon successful completion of this course, the student should be able to:
. . Speak in public with increased self-confidence.
... Develop, present and defend positions on important issues.
. . Organize, outline and present ideas clearly.
. . . Support ideas using a variety of evidence.
. . . Analyze and evaluate methods of reasoning.
. . . Recognize and refute fallacious arguments.
. . . Present ideas with appropriate use of body and voice.
. . . Provide helpful feedback to other speakers.
... Understand a speaker's ethical responsibilities.
Appreciate the role of speech in a democratic society.

## 253 Argumentation and Debate (3) AH1

3 hours lecture per week
Prerequisite: SP 151 or equivalent or instructor approval.
Practical experience in argumentation, critical thinking and debate. Application of principles of argument in formal and informal debate situations.
Upon successful completion of this course, the student should be able to:
... Participate in debates with increased skill and self-confidence.
... Discover and present evidence on important questions.
... Analyze and evaluate arguments on current issues.
... Organize, outline and present positions clearly.
.. Utilize debate skills in promoting and defending ideas.
. . . Describe and participate in various debate formats.
. . Recognize and refute fallacious arguments.
. . . Present ideas with appropriate use of body and voice.
. . . Provide helpful feedback to other debaters.
... Understand and respect a debater's ethical responsibilities.
Appreciate the role of friendly debate in a democratic society.


101 Elementary Tagalog I (4) FL
3 hours lecture, 2 hours lab per week
Development of listening, speaking, reading and writing skills in Tagalog.
Upon successful completion of this course, the student should be able to:
. . Acquire a basic vocabulary consisting of words and expressions dealing with commonly encountered objects, situations and ideas.
Recognize and produce the basic sounds, words formations and grammatical structures of Tagalog.
Understand and participate in conversations that use the basic vocabulary.
Learn a set of basic functions in Tagalog.
... Use basic structures and vocabulary in short compositions.
... comprehend simple reading passages using vocabulary or expressions and structures learned.

## 102 Elementary Tagalog II (4) FL

3 hours lecture, 2 hours lab per week
Prerequisite: Tagalog I or equivalent
Continuation of Elementary Tagalog I. Development of listening, speaking, reading and writing skills in Tagalog.
Upon successful completion of this course, the student should be able to:
... Acquire a basic vocabulary consisting of words and expressions dealing with commonly encountered objects, situations and ideas.
... Recognize and produce the basic sounds, word formations and grammatical structures of Tagalog.
... Understand and participate in conversations that use the basic vocabulary.
... Learn a set of basic functions in Tagalog.
... Use basic structures and vocabulary in short compositions.
... Comprehend simple reading passages using vocabulary or expressions and structures learned.

## 201 Intermediate Tagalog I (4) FL

3 hours lecture, 2 hours lab per week (meets daily) Prerequisite: TAG 102 or equivalent.
This course is a continuation of Elementary Tagalog II. Lab work is required daily.
Upon successful completion of this course, the student should be able to:
. . . Handle communicative tasks and social situations.
... Initiate, sustain and close a general conversation.
... Handle connected discourse particularly for simple narration and/or description.
. . . Understand sentence-length utterances which consist of recombinations of learned utterances on a variety of topics.


Photo by Bryan Sekiguchi
Students learn about Filipino culture and crafts from an expert.
. . Sustain understanding over longer stretches of connected discourse on a number of topics pertaining to different times and places.
. . . Read consistently with full understanding simple connected texts dealing with basic personal and social needs.
... Get some main ideas and information from texts featuring description and narration.
. . . Meet a number of practical writing needs.

## 202 Intermediate Tagalog II (4) FL

3 hours lecture, 2 hours lab per week (meets daily)
Prerequisite: TAG 201 or equivalent.
This course is a continuation of TAG 201. Lab work is required daily.
Upon successful completion of this course, the student should be able to:
. . . Handle communicative tasks and social situations.
... Initiate, sustain and close a general conversation.
. . . Handle connected discourse particularly for simple narration and/or description.
. . Understand sentence-length utterances which consist of recombinations of learned utterances on a variety of topics.
.. . Sustain understanding over longer stretches of connected discourse on a number of topics pertaining to different times and places.
... Read consistently with full understanding simple connected texts dealing with basic personal and social needs.
. Get some main ideas and information from texts featuring description and narration.
... Meet a number of practical writing needs.


202 Psychology of Women (3)
3 hours lecturellab per week
Prerequisite: PSY 100
Recommended Preparation: Qualification for or completion of ENG 100 or 160
Cross-listed as PSY 202
Survey of contemporary theoretical and research issues relevant to the psychological development and functioning of women. Topics covered include: gender differences in biology, personality, behavior and development. Multicultural perspectives are emphasized.
Upon successful completion of this course, the student should be able to:
... Demonstrate an understanding of theoretical perspectives on the development and functioning of women.
... Demonstrate an awareness of various methodological approaches used to research the psychology of women.
... Demonstrate awareness of contemporary psychological research on gender differences in biology, personality, behavior and development.
... Demonstrate an ability to critically review material related to the psychology of women.
. . Express ideas and opinions clearly in writing.


100 Fauna of Hawaii (3) NS1
3 hours lecture per week
An introduction to Hawaiian fauna, covering such topics as the Hawaiian environment, dispersal mechanisms, establishment of animal immigrants, the evolution of distinctly Hawaiian species, factors leading to extinction, principles of conservation and utilization of animals and animal products by the ancient Hawaiians. Major animal groups to be studied include aquatic invertebrates, fishes, birds, selected terrestrial invertebrates, and mammals.
Upon successful completion of this course, the student should be able to:
... Describe the various kinds of habitats that make up the Hawaiian environment, the geological composition and geographic location of different habitats and the effect of topography on the local climate and associated fauna.
... Discuss the factors that affect the dispersal of animal species over wide stretches of ocean.
... Discuss the factors that have affected the establishment of immigrant animal species in Hawai'i.
... Explain the factors that have affected the evolution of new species from the original colonizers.
... List the factors that are causing the extinction of native Hawaiian species.
... Describe the factors that are leading to the gradual degradation of the Hawaiian environment.
... List the common animal species found in Hawai'i; their scientific, Hawaiian, or common names; their adaptations for particular life styles; their associations with particular habitats; and defensive mechanisms that may make these animals dangerous to humans.
... Recognize the recreational, nutritional, sociological, and ecological values of Hawaiian species.

101 Principles of Zoology (3) NS1
3 hours lecture per week
Recommended Preparation: CHEM 101, 151, 161, or BIOCH 241
Registration in ZOOL 101 L optional
Introduction to zoology for nonscience majors. Living animals, their structure, reproduction and ecology with emphasis on their relationship to other living organisms and the environment.
Upon successful completion of this course, the student should be able to:
... Demonstrate an understanding that biological processes may be explained in terms of the laws of physics and chemistry.
. . . Describe a cell, its parts, and their functions; including selected topics of cell biology, such as cellular respiration, mitosis and protein synthesis.

Discuss in detail, animal patterns of locomotion, support, circulation, respiration, excretion, osmoregulation, digestion, reproduction, heredity, evolution, behavior, ecology and control by nervous and hormonal systems.
Describe the unique anatomical features of the major animal phyla and be able to relate structure to functions.
Intelligently discuss environmental issues, pseudo-science and biology-related articles and newscasts.
... Competently undertake further coursework in biological science.

## 101L Principles of Zoology Laboratory (1) NS1

3 hours lab per week
Prerequisite: Credit or registration in ZOOL 101
Laboratory observation and experiments illustrating basic principles of animal biology.
Upon successful completion of this course, the student should be able to:

Explain the scientific method as a mode of inquiry.
... Demonstrate the use of various scientific tools and equipment: dissecting tools, microscope, stereomicroscope, transect and quadrat.
... Demonstrate dissection procedures used for the fetal pig.
... Correlate the anatomical patterns and functions presented in lecture with the structures of the fetal pig.

## 141 Human Anatomy and Physiology (3) NS1

3 hours lecture per week
Recommended preparation: CHEM 101 and any college level 100 or higher course in Chemistry, Zoology or Biology
A basic course in the structure and function of the human body which includes a study of its embryology, gross anatomy, microanatomy, physiology, pathology and homeostatic relationships. Upon successful completion of this course, the student should be able to:
. . . Memorize the required anatomical structures of the systems.
... Relate previous chemistry and biology knowledge of the function of the human body in the systems.
... Analyze the structure and function of the cell and its interactions with the environment and the systems.
... Explain the gross and cellular physiology of the systems.
... Describe the functional relationship between the systems.
... Discuss the negative and positive feedback process in the systems.
... Identify the basic embryology of the systems.
... Discuss the maturation and aging process involving these systems.
... Relate metabolic processes to everyday activities such as eating, exercise and sleep.
.. . Discuss newspaper articles related to subject matter.
. . Discuss current research related to subject matter.

## 141L Human Anatomy and Physiology Laboratory (1) NS1

3 hours lab per week
Recommended preparation: high school biology.
Observation and identification of human tissues under light microscopy, transparency observation of human cells and tissues photographed under electron microscopy, dissection and ana-
tomical identification of human models, animal organ dissection to analogize human anatomical structure, media and software tutorials. Includes detailed coverage of cells, tissues, urinary, nervous, endocrine and reproductive systems.
Upon successful completion of this course, the student should be able to:
.. Describe the planes, cavities and gross anatomy of the human body.
Identify specific anatomical parts of the urinary, nervous, endocrine and reproductive systems of the human body.
Identify and draw microscopic anatomical details of the urinary, nervous, endocrine and reproductive systems of the human being.

## 142 Human Anatomy and Physiology (3) NS1

## - 3 hours lecture

Prerequisite: ZOOL 141
Structure and function of the human body, including metabolism, fluid and electrolyte balance and genetics. Includes detailed coverage of the urinary, nervous, endocrine and reproductive systems. The laboratory of ZOOL 142 will include a thorough dissection of the fetal pig, with a view toward understanding the functional human anatomy of the organ systems covered in lecture.
Upon successful completion of this course, the student should be able to:
... Analyze metabolism and nutrient pools.
... Describe fluid and electrolyte balance.
... Explain Mendelian and human genetics.
. . . Discuss anatomic terminology and the levels of structural organization within the human body and the fetal pig.
. . Describe the gross anatomy (parts, physical characteristics and organization) of the urinary, nervous, endocrine and reproductive systems of humans and the fetal pig.
... Discuss the cellular structure and cell physiology of the urinary, nervous, endocrine and reproductive systems of humans.
... Describe the disorders and homeostatic imbalances of the urinar, nervous, endocrine and reproductive systems of humans.

## 142L. Human Anatomy and Physiology Laboratory (1) NS1

 3 hours lab per weekRecommended preparation: high school biology.
Observation and identification of human tissues under light microscopy, transparency observation of human cells and tissues photographed under electron microscopy, dissection and anatomical identification of human models, animal organ dissection to analogize human anatomical structure, media and software tutorials. Includes detailed coverage of cells, tissues, integumentary, skeletal, muscular, digestive, respiratory and cardiovascular systems.
Upon successful completion of this course, the student should be able to:
. . Describe the planes, cavities and gross anatomy of the human body.
Identify specific anatomical parts of the skeletal, muscular, digestive, respiratory and cardiovascular systems of the human body.
. Identify and draw microscopic anatomical details of the muscular, digestive, respiratory and cardiovascular systems of the human being.

200 Marine Biology (3) NS1
2 hours lecture, 3 hours lab per week
Registration in ZOOL 101 L optional
An introduction to the biological and morphological characteristics of the world's oceans. Topics include marine flora and fauna, a survey of ocean habitats, fisheries and other marine resources, aquaculture and the effects of pollution on sea life.
Upon successful completion of this course, the student should be able to:
. . List the properties and composition of sea water.
... Discuss the interaction of the marine environment and its inhabitants, and how the two have evolved together to the present.
... Describe the taxonomic method of classification.
... Identify the common marine plants and animal groups.
... Define the roles of marine plants and animals in their respective environmental situations.
... Describe the structural, physiological and behavioral adaptations necessary to survive in the various habitats of the marine environment.
. . . Discuss the effects of human utilization of marine resources.
... Differentiate between the experimental and descriptive approaches to scientific investigation.
... Demonstrate proper handling and use of the compound and dissecting microscopes.
... Demonstrate smear preparation and simple staining lechniques.
... Describe and demonstrate the proper use of dichotomous identification keys.
... Describe the proper use of field study techniques, including collection, transect and quadrant sampling and and preservation of specimens.
... Draw accurate representations of common marine organisms.
. . . Design and conduct valid scientific experiments to investigate a variety of biological topics provided by the instructor.


Photo by Brock Pemberton
Student studies organs of the body in the Natural Science
Center.

# Administration, Faculty, Staff, \& Advisory Committees 

## E kuhikuhi pono i na au iki a me na au nui o ka'ike Instruct well in the little and the large currents of knowledge

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Vice Chancellor for Administrative Affairs
Vice Chancellor for Academic Affairs
Vice Chancellor for Student and Community Affairs

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Dean of Instruction
Dean of Student Services
Director of Aministrative
Acting Director of Community
Services
Assistant Dean of Instruction
Assistant Dean of Instruction
Administrative Assistant to Provost

## Kapi'olani Community College Faculty and Staff

Institutional Research
Emergency medical Services
Educational Media Center
Food Servce
Computing Center
Nursing
Emergency Medical Services Food Service and Hospitality
Medical Laboratory Technician
Records-Clerk Typist
Nursing
Legal Assistant Program
Nursing
Physics
Social Science
Nursing
French and Spanish
Microbiology
Learning Assistnace Center
Admissions-Clerk Typist
Student Services
Biology

Cabacungan, Alfredo
Chai, Kuuipo, M.S.N.
Chan, Kenwrick; M. Ed.
Chinen, Robert; C.T.A.
Chock, Karen; M.A.T.
Choy, Elsie; M.Ed.
Chun, Joe; M.A.
Chung, Kyong Soo; Ph.D.
Clements, Roland; M.S.
Coker, Karen; M.N.
Cole, John; M.A.
Cook, Janice; M.A.
Cooray, Kusuma
Corbin-Mullikin, Linka; Ph.D.
Daniels, Charles; M.S.
Davis, Harry; Ph.D.
Davis, Irmagard; M.S.
DeMello, Donna; M.S.N.
DeSilva, Kauka; M.F.A.
Dik, Ibrahim, Ph.D.
Divanian, Maida; Ed.D., M.A.
Dooley, Kevin; B.B.A.
Douville, Pat

Food Service and Hospitality
Nursing
Computing Center
Food Service and Hospitality
Mathematics
Nursing
Educational Media Center
Mathematics
Radiologic Technology
Nursing
History
English
food Service
English
Anatomy and Physiology
Chemistry
Business Administration
Nursing
Art
Social Science
Student Services
Business Administration
Nursing

Duncan, John; M.B.A.
Dunn, Ronald; Ph.D.
Dughi, Carl; M.B.A.
Edman, Jeanne; Ph.D.
Engle, Robert; M.A.
Ewing, Regina; M.Ed.
Fearrien, Robert; M.A.
Fernander, Edward
Flanigan, Anne
Flanigan, John B.A., M.A.T.
Francisco, Randall; M.Ed.
Franco, Robert; Ph.D.
Fuijikawa, Robin; Ph.D.
Fujimoto, Donald; M.A.
Fujitani, Shu-Fen; M.A.
Fukunaga, Jane; M.A. M.Ed.
Good-Goya, Kelli
Hamada, Helen
Hamada, Lynn; B.S.
Hamberg, Glenn; B.S.
Harada, Gail B.A., M.F. A.
Harrington, Rosemae; M.S.
Harris, Margaret; M.A.
Haverly, Mary Joan; M. Ed.
Hershinow, Sheldon; Ph.D.
Hickok, Monte
Hiltbrand, Ernst; School for
Pastry Chef \& Confectioner,
Switzerland
Hotta, Barbara; M.Ed.
Ikezaki, Lawrence; M.B.A.
Ishigami, Yukiyasu; M.A.
Johnson, Mary Ann; B.S.N.
Jongewaard, Connie
Kadoguchi, Ann; B.S.
Kalinowski, Edward; B.S.N., M.Ed.
Kawaharada, Dennis; Ph.D.
Kealoha-Beck; M.S.N., M.P.H.
Kelso, Mary; R.N., B.S.
Kerworth, Judith
Kihara, Holli
Killam, Kent; M.S.
Kimura, Bert; Ph.D.
Kimura, Cynthia; M.Ed.
Kimura, Robert; M.A.
Kirkpatrick, Judith; M.A.T.
Klema, Frances
Klobe, Delmarie; M.A.
Kodama, Linda; M.A.
Kondo, Thomas; M.A.
Kopelke, Caroline; M.S., NSG
Kurata, Amy; M.Ed.
LaForge, Shirley; B.S.N.
Lai, Sandra; B.A.
Lamb, M. Gerald; Ed.D.
Leake, Frank; A.O.S.
LeClair, Robert; J.D.
Lee, Mona; M.Ed.
Lee, Patricia
Levy, Irena; M.A.
MacDonald, Kathleen; M.A.
Makris, Mary; B.S.
Mann, Robin-Claire; M.A.
Marko, Mary; M.L.S.
Masada, Jerry; B.S.
Masutani, Carol
Matsuda, Charles; M.S., M.Ed.
Matsukawa, Joan; M.S.N.
McCabe, Tim; 8.Ed.
McWilliams, lanet; M.F.A.
Metzger, Patricia; B.S.N.
Meyer, Robert Ph.D.
Miguel, Linda; M.S.N.
Miller, Deborah; M.A.
Miller, Marilyn; Ph.D.
Mito, Kenneth; M.P.H.
Moikeha, Sanae; Ph.D.
Molloy, Michael; Ph.D.
Mowbray, John; M.A.

Business Administration

## Biology

Business Administration
Psychology
Music
Student Services
History
Food Service and Hospitality
Math/Science
Learning Assistance Center
Community Services
Social Science
Philosophy
Student Services
Chinese
Social Science
Educational Media Center
Educational Media Center
Medical Assisting
Emergency Medical Services
Learning Assistance Center
Student Services
Office Administration/Technology
Student Services
English
Educational Media Center

Food Service and Hospitality
Community Services
Business Administration
Japanese
Nursing
Nursing
Occupational Therapy Assistant
Emergency Medical Services
English
Nursing
Emergency Medical Services
Nursing
Admissions-Clerk Typist
Business Administration
Educational Media Center
Student Services
Business Administration
English
Records-Clerk
History
Mathematics
Japanese
Nursing
English
Nursing
Business Administration
Student Services
Food Service
Legal Assistant Program
Student Services
Records-Clerk Typist
English
English
Emergency Medical Services
Social Science
Library
Mathematics
Fiscal Officer
Biology
Nursing
Emergency Medical Services
Art
Nursing
Hotel Operations
Nursing
Office Administration/Technology
Physical Therapist Assistant
Respiratory Care
Allied Health
Philosophy
Mathematics

Munger, Michael; Ph.D.
Murakami, Gary
Nakamaejo, David; M.Ed.
Nakamura, Caroline; M.A.
Nakamura, loyce; M.A., M.Ed.
Nakashima, Deborah; B.S
Nakayama, Harry; B.S.
Naughton, Noreen; M.Ed., M.F.A.
Nedervelt, Andrea; M.S.
Neidhardt, Wayne; Ph.D.
Nishimoto, Guy; M.A., M.Ed.
Noguchi, Esther, M.Ed.
Nofi, Frank; M.A.
Ogawa, Estelle; Ed.B., M.Ed.
Okamura, Vera; M.Ed.
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Osorio, Jonathan; M.A.
Pak, Andrew; M.A.
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Pang, Henry; B.S.
Pang, Loretta; M. Ed., M.A.
Pang, Trude; M.Ed.
Parmelee, Martha Jean; M.S.A.
Paul-Watanabe, Carol;' B.Ed.
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Pestana, Sally; B.S.
Prough, Carolyn; B.S.
Quensell, Nelda; M.S.
Reimer, Connie; M.Ed.
Robillard, Divina; B.S.N., M.P.H.
Rota, Sharon; M. Ed., M.A.
Sachdeva, Meena; M.A.
Saito, John; M.P.H.
Sato, Gladys; M. Ed.
Sears, C. Eric; Ph.D.
Seita, Alfred; M.S.
Sherwood, Barbara; B.S.N.
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Shideler, Katherine; M.S.N.
Shimabukuro, James; Ed.D.
Shinoki, Amy; M.Ed.
Slatoff, Saul; M.L.S.
Stewart, Ruth; B.S.N.
Sturges, Michelle; M.L.I.S.
Tagawa, Michael; M.A.
Takahashi, Ron; B.B.A.
Takazawa, Evelyn
Taketa, Iris; M.Ed.
Tani, Carolyn: M. Ed.
Toguchi, Charlotte; M.A.
Tom, Tenny; J.D., L.L.M.
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Umehira, Ronny, BBA
Uno, John; Ph.D.
Upton, Robert; B.A.
Vanairsdale, Dennis; J.D.
Vashishta, Shirley; M.L.S.
Voyce, Donald; M.S., M.B.A.
Waggoner, Barbara
Wall, Brendan; M.A.
Webb, Terry; Ph.D.
Wehrman, Catherine Chow; M. Ed.
Wehrman, Stephen; A.S.
Whittle, Christine
Wiegand, Siegfried; M.Ed.
Wight, Elizabeth; M.A.
Wong, Vernon; M.A.
Yamamoto, Louise; M.A., M. Ed.
Yanai, Eleuteria; M.A.
Yasuhara, Lori; B.Ed.
Yoder, Lane; Ph.D.
Yonemori, Lori, BBA
Yoshihara, Elva; B.S.N.
Yoshimura, Joselyn; M.Ed.
Yoshimura, Naomi
Young, Joan; B.Ed.

Instructional Service Office
Educational Media Center
Business Administration
English
Office Administration/Technology
Student Services
Radiologic Technology
Art
Nursing
Mathematics
English
English
English
Office Administration/Technology
Mathematics
Nursing
History
Mathematics
English
Computing Center
History
Office Administration/Technology
Nursing
Occupational Therapy Assistant
Speech-Communications, Drama
Medical Laboratory Technician
Business Administration
Botany
Student Services
Nursing
Student Services
English
Emergency Medical Services
Food Service and Hospitality
Social Science
Business Administration
Emergency Medical Services
Educational Media Center
Nursing
English
Business Administration
Library
Nursing
Library
Social Science
Hotel Operations
Nursing
Office Administration/Technology
Dental Assisting
Speech-Communications
Business Administration
Hotel Operations
Nursing
Anatomy \& Physiology
Emergency Medical Services
Business Administration
Library
Chemistry/Oceanography
Nursing
Philosophy
Library
Student Services
Respiratory Care
Admissions-Clerk Typist
Food Service and Hospitality
Hawaiian
Auxiliary Services
Learning Assistance Center
Nursing
Food Service/Hospitality Education
Community Services
Mathematics
Nursing
Student Services
Nursing
Medical Assisting

## Kapioolani Community College Clerical and Maintenance Staff

Akana, Darlene
Akana, Francis
Anbe, Ethel
Alfonsi, Theresa
Aoki, Grace

Educational Media Center-Clerk Steno Custodial Services-Groundskeeper
Business Education-Secretary
Library Assistant
Bookstore-Cashier Clerk

Britos, Barbara
Cadelinia, Stephanie
Caoagdan, Conrad
Chagami, Barbara
Ching, Gregory

Learning Center Secretary Administrative Services-Secretary
Custodial Services-Janitor
Arts \& Sciences-Secretary
Custodial Services-Janitor

Dang, Michael
DeMello, Lee Ann
Devenport, Pamela
Ferreira, Caro
Forster, Michele
Hall, Fred
Hatakeyama, Elaine
Henderson, Marcia
Higa, Kevin
Higashi, Carol
Hong, Christopher
Hong, Doris
Iseri, Lois
Ishikawa, Arlene
Kama, Marvelene
Kaneshiro, Irma
Keliiaa, Paul
Kepilino, Florence
Kim, Helen
Klema, Frances
Kodama, Alva
Lacayanga, Odetta
Laoan, Consolacion
Lau, Virginia

Custodial Services-Janitor
Emergency Medical Services
Clerk-Typist
CustodialServices-Groundskeeper
CustodialServices-Groundskeeper
Emergency Medical Services
Clerk-Typist (Hilo)
Administrative Services-Security Officer
Library Assistant
Custodial Services-Janitor
Food Service-Cook
Administrative Services-Personnel Clerk Mailroom-Clerk
Health Education Clerk Steno
Community Services-Secretary
Community Services-Clerk Steno
food Service-Cafeteria I telper
Provost's Office-Secretary
Administrative Services-Security Officer
Library Technician
Food Service and Hospitality
Secretary
Admissions \& Records-Clerk
Library Technician
Library Assistant
Custodial Services-Janitor
Legal Assistant, Office
Administration Technology-Secretary

Maeda, Janice
Maruya, Jayne
Matias, Antonio
Mero, Genevieve
Momohara, lanet
Murakami, Cwene
Nakamura, Betty
Orot, Floria
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Pintor, Damiana
Rice, Emma
Saito, Carol-Lynn
Shimabukuro, Mae
Sugai, Jamie
Tanabe, loy
Tani, Daniel
Taum, Fulton
Udani, Florentino
Watase, Amy
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Viela, Raymond

Arts \& Sciences-Clerk Typist
Business Office-Account Clerk
Custodial Services-Janitor
Library Assistant
Educational media Center
Arts \& Sciences-Clerk Typist
Instructional Services-Secretary
Community Services-Clerk Typis
Business Office-Cashier Clerk
Educational Media Center
Offset Press Operator
Custodial Services-Janitor
Custodial Services-Janitor
Library-Clerk Steno
Health Education-Secretary
Emergency Medical Services Secretary
Instructional Services-Secretary
Custodial Services-Ianitor
Custodial Services-Janitor
Custodial Services-lanitor
Emergency Medical Service
Clerk- Typist (Kaua'i)
Emergency Medical Services
Clerk- Typist (Maui)
Custodial Services - Janitor

Occupational Therapy

## Assistant

Valeric Chang, OTR
Jennifer Chilton-Brown, COTA
Jane Kapoi, OTR
Deborah Morikawa, OTR
Gail Peralta, OTR
Carolyn Uehara, OTR

Physical Therapist Assistant
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Beth Arruda, P.T.
Patrick Ariki, P.T.
Sandy Beuregard, P.T.
Mandy Burnett, P.T.
Alan Cashen, P.T.
Carolyn Doughery, P.T.
Diane Eisele, P.T.
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Fiorian Flores, P.T.
Lois Frasier, P.T
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Cynthia lwata, P.T
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LI. Robert Taylor, P.T.
arol Tokishi, P.T.
Flacido Valenciano, P.T.
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Vicki Zurlage, P.T.

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Charlene Aoki, R.T.
Priscilla Dela Cruz, R.T.
lanet Farineau, R.T.
Kathy Fogarty, R.T.
Diane Fudge, R.T.
loan McGarry-Nakayama, R.T.
Keith Miyashiro, R.T.
Michael Sato, R.T
Henri-Ann Shaw, R.T.
Suzanne St. Clair, R.T.
June Tyau, R.T.
L.ester Yoshimoto, R.T.

## Respiratory Care

Brad Bransford
Wayne Saito, RRT
Beverly Hakamura, RRT
E.dmund Borza, RRT

Dwight Watanabe, RRT
Michael McGuire, RRT
Alan Yoneshige, RTT
Denise Wheatley, RRT
David Chock, RRT
Dawn Matson, RRT
Dan Turner, RRT
l.ance Oyama, RRT

Eric Sellona, RRT
Cathy Lee, RRT
Jun Luga, RRT
iNorman Ohta, RRT
Steven Lee, RRT
Ronald Sanderson, RRT
Wendall Inouye, RRT
L.aura Masuda, RRT

Peggy Pacmyra, RTT
Val Chong, RRT
Carolyn Yanagi, RTT
Paul Sayurin, RRT
Kathy Snowbarger, RRT
Michelle Newkirk, RRT
Vanessa Stanley,RRT
Dion Malala, RRT
Dwayne Lopes, RRT
Hayes Gregory, RRT
Nancy Mendoza, RRT
Karen Connolly, RRT

Emergency Medical Senvices Adjunct Faculty

Dennis Aguiar, MICT
Ron Ah Loy, MD
Chris Ano, MICT
Wayne Awai, MICT
John (Jay) Bartholomew, MICT
Edward Ballerini, MD
John Bello, MICT
John Bowen, Ph.D.
Rod Boychuck, MD
Alan Britain, MD
James Burnett, MICT
James Carpentier, MD
Reuben Chun, MICT
Kathy Coughlin, RN
Wayne DeMotta, MICT
Joe Domingo, MICT
John Elliot, MICT
Eddie Fujioka, MICT
Mark Furiya, MICT
Gregory Gangwes, MICT
Donnie Gates, MICT
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Thomas Hughes, MICT
Dennis lyo, MICT

Johnson Kahili, MICT
Patricia Kelford, MICT
Christopher King, MD Eric Kitagawa, MICT Wayne R. Kruse, MICT Les Kurano, MICT
William Lau, MICT
Robert Lebel, MICT
Belinda Lee, MICT
Jeff Lee, MICT
Joe Lewis, MD
Djon Lim, MD
Curtis Matsui, MICT
Michael Matsui, MICT
Don Matsuura, MD
Kevin McGough, MICT
Wayne Miyashiro, MICT Clesson Murasaki, MICT
Kathleen Ohara, MD
Darryl Oliverira, MICT
Robert Overlock, MD
Barton Paiva, MICT
Paul Paiva, MICT
Paul (Scotty) Paiva, MICT
Moon Park, MD
Douglas Rogers, MD
Linda Rosen, MD
Myron Rosenhill, MICT
Greg Ruhland, MD
Sue Schulz, MICT
Mandy Shiraki, MICT
Jackie Sing, MICT
Chester Sukekane, MICT
Robert Sussman, MD

Brian Swindale, MICT
Denise Talbert, MICT
Randa! Tanaka, MICT
Marilu Townsend, MD
John Uohara, MD
Carl Urban, MICT
D. Leslie Van Gieson, MICT

Arnold Villanueva, MICT
Desmond Wery, MICT
Charles Whittle, MICT
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Bradley Wong, MD
Colin Wong, MICT
Steven Woo, MD
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Justin Yamamoto, MICT
George Yamashiro, MICT
Tracy Yanagi, MICT
Ralph Yawata, MICT
Myron Yoshioka, MICT
Alan Young, MICT
Dennis Yurong, MICT
Stanley Zukeran-Kerr, MICT
Pat Gragas, MICT
Steve Rhody, MICT
Brenda Molina, MICT
Terry Reed, MICT
Carol Zbiciak, MICT
Candy Morimoto, MICT
Winthrop Schafer, MICT
Curt Morimoto, MICT
Dennis Fitzpatrick, MICT
Patricia Morine, MICT
Diana Gunther, MICT

Tom Jones, MICT
Harry Van't Groenewout, EMT
Heidi Awohi, EMT
Rusall Azuma, EMT
Linda Conboy, RN
Rick Sword
Jon Weisul, MD
Steve Moser, MD
George Carlson, MD
Lorne Derenfeld, MD
Joseph Hew, MD
William Mitchell, MD
Dennis Rowe, MD
David Nelson, MD
Bruce Butler

## Legal Assisting

Bruce E. Barnes, Esq.
Harold Chu, Esq.
James Hershey, Esq.
Robin Kishi, Esq.
Christine Kurashige, Esq.
Cynthia Lee, Esq.
Lenora Lee
Robert Lerud, Esq.
Michael Nauyokas, Esq.
James Pietsch, Esq.
Neal Seamon
James Seki, Esq.
Raymond F. Zeason, Esq.

## ADVISORY COMMITTEES

Kapi'olani Community College has invited a number of community leaders in business, industry, and the professions to advise the staff in the development of curricula in accordance with requirements in their fields. Consultations with these leaders relate to course content, selection of training equipment, the nature and extent of employment needs, and evaluation of the effectiveness of the program. Advisory committees are formed as new needs and programs are identified. Current advisory committee members are listed below.

## Program Advisory Committees

## Accounting

Mr. Allen Arakaki, CPA
Arakaki and Kirio CPAs, Inc.
Mr. Patrick D. Ching
Senior Vice-President \& Treasurer
Servco Pacific Inc.
Mrs. Beverly Garcia
Controller
Oceanic Propertes, Inc.
Mrs. Jerilyn L. O. Jeffryes
Assistant Administrator
Central Medical Clinic
Mrs. Deborah Nolan, CED
Internal Revenue Service
Carleton Williams, CPA
Detor \& Williams, CPA's
Mr. Allan Yasue, CPA
Partner
Coopers \& Lybrand, CPA's

## Art

Frank Beaver
Artist and Art Major Advisory
University of Hawai'i at Mānoa

## Kim Bridges

Assoc. Professor of Botany and Electronic Multi-
Media Specialist
University of Hawai'i at Mānoa
Fredrica Cassidy
Artist and Community Representative
Honolulu
Larry Callahan, Retired
Student Advisor
Humbolt State University, California

## Nicolas Carone

Artist and Co-Founder/Director
International School of Art in Umbria, Italy
John Dunn
Computer Programmer
Artist and Electronic Musician

## George Ellis

Director
Honolulu Academy of Arts

## Elizabeth Grubic

Admissions Counselor
New York Fashion Institute of Technology

## John Hara <br> Architect

Dan Iki
Electronic Multi-Media Specialist and
Community Representative
Victor Kobayashi
Dean of Summer Sessions and Arts Educator
University of Hawai'i at Mānoa
Kit Kowalke
Designer and Educator
Commercial Art Program,
Honolulu Community College
Wendie Liu
Art Specialist, Department of Education
John Morita
Artist
Dusty Short
Community Member and Arts Supporter
Todd Siler
Artist and Scientist
Center for Advanced Visual Studies, Massa-
chusetts Institute of Technology
Toshiko Takaezu
Aitist and Educator
Princeton University, New Jersey
Joanne Trotter
Community Representative
Helaine Treitman
Co-Founded-Director
International School of Art in Umbria, Italy
Jeanne Wiig
Design Educator
University of Hawai'i at Mānoa
John Wisnosky
Artist and Educator
University of Hawai'i at Mānoa

## Data Processing

Mr. Don Fujimoto
Director, Management Information Services
Alexander \& Baldwin
Mrs. Georgiana Fujita
Vice President
Hawai'i Medical Service Association
Systems Development
Mr. Clyde Jenkins
President
Jenkins Consulting Service, Inc.
Ms. Barbara Kahana
Director, Data Processing
Kuakini Medical Center
Ms. Noreen Kuniyuki
Director, Data Processing
Oceanic Cablevision
Mr. Samuel C. Luke
International Director, Data Processing
Management Assoc.
V.I.P. Underwriter Corporation

Mr. Kent Murata
Head, Planning, Programming
and Environment
Facilities Department
Marine Corp Air Station
Mr. J. Michael Powers
Principal
The Power Group
Mr. Thomas See
Systems Analyst
TYC Consulting Resources
Mrs. Assumpta Siu
Assistant Vice President
Bank of Hawai'i Systems Engineering
Mr. Calvin Yamasaki
Manager, Information Systems
and Services
Dole Packaged Foods Company

## Dental Assisting

Dr. Karen Hu
Ms. Terry Ishiara, C.D.A.
Ms. Ann Nakahara, C.D.A.

Dr. Kenneth Minato
Dr. Pete Nishimura
Ms. Jane Tokumaru, RDH

## Emergency Medical Services

Chief John Bello, EMS Coordinator
Hawai'i County Fire Department
Central Fire Station
Chief Douglas Clark, Training
C \& C Fire Department
Major William Clark, Training Officer
Honolulu Police Department
John Elliott, President
American Safety
Ralph Goto, Director
C \& C Lifeguards

## Peter Halford, M.D.

Advanced Trauma Life Support Committee
Cathy Holomalia, Program Director
Hawai'i Heart Association

## Barbara Ideta, R.N.

Kuakini Medical Center
O'ahu EMS Advisory Council
Robin Loomis
Consumer Representative
Donna Maiava, Acting Chief, EMSS Branch
State Department of Flealth

## Belinda Lee, President

Pre-Hospital Emergency Care Professional Association
Chief Walter Nishimura, Ambulance Division
C \& C Ambulance Division

## Mike Penick

International Life Support
Stan Snodgrass, Executive Director
Hospital Association of Hawai'i

## Wesley Young, M.D.

American College of Emergency Physicians, c/o Kaiser Medical Center

## Food Service

Marsha Azuma
Dir. of Human Resources
Otaka, Inc.
James Browne
Dir. of Catering
Sheraton Waikiki
Gordon Dambach
Executive Chef
Sheraton Waikiki
Albert Fujimoto
Director of Purchasing
Hilton Hawaiian Village

## Ellen Klein

Instructor
Travel Industry Mgt. Prog.
University of Hawai'i
Eugene Kaneshiro
Director
School Food Service
Wes Zane
Executive Vice President
(Chair-Adv. Committee)
Hawai'i Restaurant Assn.
Nathan Kina
Executive Chef
Oulrigger Prince K"hiō
Cheryl Kincaid
Coordinator
H.A.R.I.E.T.T.

Wayne Lee
Director of Food \& Bev.
Hawaiian Regent Hotel
Donna Matsufuru
School Food Serv. Mgr.
Makalapa Elementary School
Betty Nose
School Food Service

Supervisor
School Food Service
Paul Onishi
Owner/Executive Chef
Tad and Pat's
Gale O'Malley
Execulive Pastry Chef
Hilton Hawaiian Village
Creg Paulsen
Executive Chef
John Dominis Restaurant
Gaylynne Sakuda
Director of Personnel
Kahala Hilton Hotel
Franz Shaier
Executive Pastry Chef
Halekulani Hotel
Gary Strehl
Executive Chef
Hawai'i Prince Hotel
Noel Trainor
Regional Director
of Food and Beverage
Hilton Hawaiian Village
Bill Trask
Executive Chef
Ilikai Hotel
Larry Trott
Executive Chef
ARA
Guido Ulmann
Executive Chef
Hilton Hawaiian Village
Jane Umeda
Director of Dietary Serv.
Kuakini Medical Center
Linda Uyehara
Vocational Educ. Teacher
Home Economics Depts.
Farrington High School
Sharen Wago
Personnel Director
Hyatt Regency Hotel
Jeff Wind
Executive Chef
Hyatt Regency Hotel
Roy Yamaguchi
Owner/President
Roy's Restaurant
Harry Yee
Director of Purchasing
Hawaiian Regent Hotel
Wes Zane
President
Hawaiian Restaurant Association

## Hotel Operations

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Waikiki Parkside
Marsha Azuma
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Otaka, Inc.
Sandy Albano
Director of Sales
Sheraton Hotels
Hawai'i and Japan
Steve Boyle
General Manager
New Otani Kaimana Beach
John Brogan
Managing Director
Sheraton Hotels
Tom Burke
V.P. Operations Division

Outrigger Hotels
Dean Fujitani
Director of Sales
Halekulani Hotel
Chuck Gee
Dean
School of Travel Industry Mgt.
Rosita Calera
Corporate Housekeeper
Aston Hotels

Mark Hayashi
PresidenUGeneral Manager
Pacific Beach Hotel
Richele Thomburg
Training Manager
Pacific Beach Hotel
Murray Towill
Executive Director
Hawai'i Hotel Assn.
Karen Hong
Controller
Outrigger Hotels
Outrigger Waikiki Hotel
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Coordinator
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## Ralph Mau

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David Monahan
Manager
Sheraton Waikiki
Hiroo Nagasawa
President
Azabu, USA
Kathy Oyadomari
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Outrigger Hotels Hawai'i
Outrigger East
Gaylynne Sakuda
Director of Personnel
Kahala Hilton Hotel

## Phil Sammer

General Manager
'llima Hotel
Peter Schall
General Manager
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Charles St. Sure
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Aston's Honolulu Prince
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Regional Manager
Human Resources
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Hilton Hawaiian Village
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## Legal Assistant

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Attorney
Mr. A. Bernard Bays
Attorney
Bays, Deaver, Hiatt, Kawachika,
Lezak, and Kodani
Mr. David Harris
General Public
Ms. Tami Higa
Legal Assistant
Greeley, Walker and Kowen
Ms. Karen Kokubun
Legal Assistant
Cades, Schutte, Fleming and Wright
Mr. Gerald Lamb
Counselor
Kapi'olani Community College
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UH Elder Law Project
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Pilot, Aloha Airlines
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Executive Support Hawai'i
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Paul, Johnson, Park and Niles
Mr. Paul A. Tomar*
Attorney
Law Offices of Paul A. Tomar

Mr. Eric Van Deusen
Legal Assistant
Department of Atiorney General
Ms. B. J. Wade
Legal Assistant
Schmidtke and Lockwood
Ms. Francis Yee
Legal Assistant
Chun, Kerr \& Dodd
*Chairperson

## Medical Assisting

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Ms. Kathy Adams, RN
Director of Nursing
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Straub Clinic \& Hospital, Inc.
Ms. Barbara Running
Director of Nursing
Honolulu Medical Group
Mr. Lou Hefley, M.D.
Straub Clinic and Hospital

## Mr. Aaron Koseki

Curriculum Specialist
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Gail Li, M. D.
Ms. Rose McIntyre, R.N.
Kapioolani Medical Center
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Ms. June Morioka, R.N., CMA-AC
Physician's Exchange
Mrs. Janet Nakagawa, CMA-ACP
Hawai'i Society of Medical Assistants
Niranjan Rajdev, M.D.
The Honolulu Medical Group
Medical Advisior, Medical Assisting Program
Kapioolani Community College
Maile Howick, R.N.
Director, Clinic Nursing Services
Kaiser Medical Center Clinics, Honoululu
Ms. Rose Sakamoto, CMA-P
Hawai'i Society of Medical Assistants
Student Medical Assistants
Class of 1992 and Class of 1993
Sorrell Waxman, M.D.
Kapioolani Medical Center for Women and Children
Mr. Jon Won, Executive Director
Hawai'i Medical Association
Executive Secretary,
Honolulu County Medical Society
Franklin Young, M.D.

## Medical Laboratory Technician

Ms. Lei Inouye-Ching, MLT(ASCP)
Laboratories Branch, DOH
Ms. Grace Kagawa, MT(ASCP)
Ms. Gladys Kasai, MT (ASCP)
SmithKline Beecham AccuPath
Mr. Glenn Kobayashi
Laboratories Branch
State Dept. of Health
L. John Lockett, M.D.

Pathologist
Straub Clinic and Hospital, Inc.
Ms. Aldine Brown, MT(ASCP)
Kuakini Medical Center
Mr. Kenneth Sato, MT(ASCP)
SmithKline Beecham AccuPath
Ms. Gloria Shishido, MT (ASCP)
Director of Human Resources
Diagnostic Lab Services
Ms. Patricia Taylor, MT(ASCP)
Chairperson, Medical Technology University of Hawai'i
Ms. Judith Young, MT(ASCP), SBB
Asst. Dir., Lab Sves.
Blood Bank of Hawai'i

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Mrs. Faith Inoshita, R.N.
Staff Development Director/Quality
Assurance Coordinator for Nursing
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Ms, Carol Kikkawa-Ward, R.N.
President
Medical Personnel Pool
Ms. Gayle Kutaka
Director of Mental Health and
Rehabilitation Sves.
Queen's Medical Center
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Le'ahi Hospital
Ms. June Nakashima
Director of Nursing
Maluhia Hospital
Ms. Rose Ann Poyzer, R.N.
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Ms. Betsy Toma, R.N.
Nursing Education and Training
Coordinator
Kaiser Medical Center
Mrs. Shron Yamauchi, R.N.
Nursing Education Coordinator
Queen's Medical Center

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School of Public Health
University of Hawai'i

Ms, Joann Tsark, MPH, COTA Co-Chairman
Ms. Lucinda Barrett, OTR
Jefferson Schoo!
Ms. Jennifer Chilton-Brown, COTA
Kamehameha Schools
Ms. Alison Fong, COTA
Rehabilitation llospital of the Pacific
Ms. Jacki Hughes, COTA
L'̄ahi Hospital
Mr. Jarrett James, COTA
Ms. Jane Kapoi, OTR
School Health Branch, DOH
Col. John Reardon, EdD, OTR
Tripler Hospita!
Ms. Virginia Tully, OTR
Rehabilitation Hospital of the Pacific

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Mr. James Yano
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St. Francis Medical Cente
Colin Kato, PTA
Hawai'i Physical Therapy

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Diagnostic lmaging Department
Kaiser Medical Center
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Ms. Mary Oyadomori, RT
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Ms. Suzanne St. Clair, RT
Department of Radiology
Kaiser Medical Center
Ms. Jane Tyau, RT
Department of Radiology
St. Francis Hospital
Mr. James Yano
Assistant Administrator
St. Francis Medical Center
Mr. Lester Yoshimoto, RT
Department of Radiology
Straub Clinic \& Hospital
President
Radioiogy Technology Club
Representative
Hawaiłi Society of Radiologic Technologists

## Respiratory Care

Ms. Carol Agard, RRT
Chief Therapist
Queen's Medical Center
Ms. Daryl Jean Carter, RRT, Chair
Director, Cardiopulmonary
Castle Medical Center

## Mr. David Fox, RRT

Director, Cardiopulmonary Svcs.
Pali Momi Medical Center
Christine Fukui, M.D.
Medical Director, Respiratory Care
Program
Mr. Aaron Koseki
Allied Health
Kapiólani Community College
Mr. Wilford Kouke, RRT
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Straub Hospital
Mr. Ray Manabat, RRT
Director of Cardiopulmonary
St. Francis Medical Center West

Mr. John Mendoza, RRT
Chief, Pulmonary Services
Kuakini Hospita!
Mr. John Gabison, RRT
Director, Respiratory Care
Kaiser Medical Center
Mr. Frank Rincon, RRT
Director of Respiratory Care
St. Francis Medical Center
Ms. Maria Smedegard, RRT
Respiratory Care
Tripler Army Medical Center
Ms. Martha Smith, RTT
Director, Respiratory Therapy
Kapi'olani Medical Center for
Women and Children
Ms. Rosemary Respicio
American Lung Association of Hawai'i
Ms. Karlene Meyer
Director of Vounteer Services
Castle Medical Center
Ms. Linda Miyasato
Student Representative
Sales and Marketing
Mr. C. Bryson Bush
President and CEO
Arthritis Foundation
Mr. S. Patrick Corrigan
CEO
Global Resources
Ms. Susan Dik
President
Dik \& Associates, Inc.
Ms. Beverly Espiritu
Manager, Local Sales Development
Hertz Comporation
Mr. Tom Fedzer
Consultant
Young Bros. Lid.

Ms. Louise Fleming
President
CPM \& F
Ms. Celeste For
Director of Public Affairs
KITV Channel 4
Mr. Frank Haas
Vice President, Marketing
Theo H. Davies Food Service Group
Mr. Herbert Hong, Jr.
(Steven Sakurai)
President
Ethel's
Mr. Kim Jacobsen
Publisher
Hawai'i Business
Dr. Laurence Jacobs
Professor
Marketing Department
UII-Manoa
Mr. Michael Roeder
Vice President, Marketing Division
First Hawaiian Bank
Mr. Lawrence Shimazu
Instructor of Marketing, retired
Orientiques
Ms. Linda Spratt
Human Resources Director
Liberty House
Ms. Becky Ward
President
Ward Research
Mr. Robert Wo, Jr.
Executive Vice President
C.S. Wo

Office Administration and Technology
Ms. Grace Asato
Economic Department
Bank of Hawai'i

Mr. Tom Cesar
President
Networx, unlimited
Ms. Lois Ikei
Burke, Sakai, McPheeters,
Bordner \& Gillardy
Ms. Doris Hannaford
Area Manager
Manpower
Mr. Don Mueller
Peck, Sims, Mueller, Inc.
Mr. Sam Sloan
Executive Director
Small Business Hawai'i
Ms. Christine Wailand
Employment Supervisor, Human Resources
Straub Clinic
Ms. Karen Tom
Dept. of Personnel Services
Recruitment Branch

## Court Reporting Program

Mr. David N. Baba
Donna N. Baba and Associates
Mr. Louis A. Carnazzo
Carnazzo Court Reporters
Mr. Terrence Chun
Official Court Reporter
Ms. Evelyn Miyata
Reporting Services
Mr. Anthony Ornellas
Supervisor, First Circuit Court
Mr. Ralph Rosenberg
Ms. Diane Ross
Mr. Regis E. Taylor
Chairman, CSR No. 192


Photo by Moriso Teraoka
Variegated Yucca, one of the rare plants found in the cactus garden on the KCC campus.

## KAPI‘OLANI COMMUNITY COLLEGE



## TDD Payphones <br> 'llima <br> Lama

## TDD Offices sites

Admissions-'Ilima106
Counseling-'Ilima 103
Sign Language Interpreter Training Program-Manono 116
Gallaudet University Regional Center-Manono 102
Learning Assistant Center-‘Iliahi 228
Provost Office-'Ilima 213
Koa 109
Office of Community Services-Manono 101
Special Student Services-'Ilima 104

## Handy References

## ABSENCES

Your instructor(s); contact as soon as possible ADDRESS CHANGE

Registration and Records Office
'Ilima 102, 734-9533
ADMISSIONS
Office of Admissions and Information Services,
'Ilima106, 734-9553
ATHLETICS/INTRAMURAL SPORTS
Student Activities Office
'Ōhi'a 101, 734-9576
BOOKS, BUY/SELL
Bookstore
'OThi'a 116, 734-9589
CAREER INFORMATION
Career and Personal Development Center
'Ilima 103, 734-9500
CHANGES IN REGISTRATION
Regisiration and Records Office/Business Office
Ilima 102, 734-9533
COMPUTING RESOURCES
Computing Center
'Iliahi 123, 734-9340
COUNSELING
Career and Personal Development Center
${ }^{\prime}$ Ilima 103, 734.9500
CREDIT BY EXAMINATION
Office of appropriate Department Chair
EARLY ADMISSIONS PROGRAM
Office of Admissions and Information Services
'Ilima 106, 734-9559
FINANCIALADILOANS
Financial Aid Office
'Ilima 102, 734-9536
"FOR SALE" ADS
Student Activities Office
'Ohi'a 101, 734-9576
FOREIGN STUDENTS INFORMATION
Career and Personal Development Center
'Ilima 106, 734-9500
GENERAL INFORMATION
Office of Admissions and Information Services,
'Ilima 106 734-9559
HANDICAPPED, INFORMATION FOR
Special Student Services Office
' 'lima 104, 734-9552
HAWAIIAN STUDENTS
THE LOKAHI PROJECT
'llima 103, 734-9500
IDCARDS
Student Activities Office
'Ōhi'a 101, 734-9576
INJURY/ILLNESS
CALL 911
JOB PLACEMENT
Career and Personal Development Center 'Ilima 103, 734-9500
LITERARY MAGAZINE
KA NANI Office
Interim Facilities, Lower Campus

LOCKERS
Student Activities Office
'Ohi'a 101, 734-9576
LOST AND FOUND
Office of Admissions and Information Services
'llima 106, 734-9559
MEDICAL INSURANCE (INQUIRIES)
Student Activities Office
'Ohi'a 101, 734-9576
NEWSPAPER (STUDENT)
KAP1'O Office
Lama, 734-9120
PEER COUNSELORS
Career and Personal Development Center
' Illima 103, 734-9500
PUBLIC ANNOUNCEMENTS/RELATIONS
Office of Community Services
Bldg. 933 102, 734-9211
REGISTRATION INFORMATION
Registration and Records Office
Ilima 106, 734-9533
SCHOLARSHIPS
Financial Aids Office
-llima 102, 734-9536
SECURITY
24 hours a day
'Ilima 204, 734-9542
SENIOR CITIZEN PROGRAMS
Office of Community Services
Bldg. 933 102, 734-9211
STUDENT CONGRESS
Student Activities Office
'Öhi'a 101, 734-9576
TELECOMMUNICATION DEVICES
FOR THE DEAF
See campus map for TDD locations
TDD relay: 643-8833
TESTING INFORMATION
Office of Admissions and Information Services
‘ 'lima 106, 734-9559
TRANSFER INFORMATION
Career and Personal Development Center
'llima 103, 734-9500
TUITION REFUNDS
Office of Dean of Students
${ }^{\prime}$ Ilima 205, 734-9526
TUITION WAIVERS
Financial Aid Office
'Ilima 102, 734-9538
TUTORS/TUTORING
Special Student Services Office
'llima 104, 734-9552
Learning Assistance Center

- Iliahi 228, 734-9343

VETERANS INFORMATION
Records Office

- llima 106, 734-9532

WITHDRAWAL, CLASSES/COLLEGE
Registration and Records Office
'Ilima 102, 734-9533

#  


[^0]:    Mary Joan Haverly or Lori Ideta, Counselors
    'llima Bidg., Room 104
    Kapioolani Community College
    4303 Diamond Head Road
    Honolulu, Hawai'i 96816
    Phone: 734-9552

[^1]:    *Approved Options:
    FSHE 256, Hotel Accounting (
    FSHE 240, Hospitality Purchasing 3
    FSHE 245, Beverage Operations 3
    FSHE 260, Hotel Law
    ACC 201, Elementary Accounting I 3
    ACC 202, Elementary Accounting II 3

[^2]:    Fall I (16 credits)
    NURS 154, Family Health Nursing I 3
    NURS 155, Child Health Nursing I 3
    NURS 157, Adult Health Nursing II 5
    MICRO 130, General Microbiology 3
    MICRO 140, General Microbiology Laboratory $\quad 2$

[^3]:    3 Reading for Students of English as a Second Language (4)
    3 hours lecture, 2 hours lab per week
    Grading: Credit/No Credit only.
    Prerequisite: A grade equivalent of 4.0-6.0 on the English Placement Test.

[^4]:    205 Measurement for the Physical Therapist Assistant (1)
    3 hours lab per week
    Prerequisite: Admission to PTA program or consent of PTA
    program director

