For Faster Service Find the Proper Office Listed Alphabetically Below
For Offices Not Listed Call Campus Operator at (818) 347-0551 or (805) 495-0050

## All numbers listed below are (818) area code

## ADMINISTRATIVE AND CAMPUS SERVICES

| Admistions | 719-6404 |
| :---: | :---: |
| Ascument Censer. | 719.6499 |
| Asseciated Seulents | .719-6411 |
| Athetic Diectior. | -719.6421 |
| Bookutore Infoemation | 347.0313 |
| Puilding \&C Geounds | .719.6441 |
| Buil, The | .719-6427 |
| Butinas Office tinformation | $710-0497$ |
| Career Conter. | $719-646$ |
| Child Deviopment Center | 719.6494 |
| Community Services | -719-6425 |
| Congerative Elucation | 719644 |
| Counseling. | 7196434 719.6440 |
| EOPAS | -79-6440 |
| Financial Aid | 719-6422 |
| Fowntig Student Alviour | -719-644 |
| GAIN | -719-6417 |
| Gratuation. | $719-6400$ |
| Handicaped Services | 719.6416 |
| Heald Center.... | -719-6430 |
| Interpreer Servics far | 51. 270 |
| Itaming Center .- | 19.6430 |
| Libray... | -710-420 |
| theres Triodicaly | 09 |
| Last \& Found. | -7196410 |
| Matriculaion. | $719-6450$ |
| Media Cexuter | 719.6449 |
| Mancom. Natural Scie | . 719.6424 |
| Prforming Arss Buid | -719.6465 |
| Pronnd.... | $71 \%$-6488 |
| Placenest. | 719.6407 |
| Pant Fixilities | 719-6454 |
| Potior. | -719-6441 |
| President | 719.6450 |
| Purchasing | $719-6408$ |
| Receiving. | -719-6431 |
| Records. | 719.6445 |
| Relations With School | -719-6404 |
| Roundup.... | 719-6406 |
| Safry \& Police | -719-6427 |
| Scholankipu. | -719.6450 |
| Special Savica | . 719.6422 |
| Student Acrivities. | 719.6430 |
| Student Eriployment. | $719-6418$ |
| Student Servicer | .719-6454 |
| Veterans... | .719-6419 |
| WoMeni Rosurce | .719-4.428 |

## INSTRUCTIONAL DEPARTMENTS




Los Angeles Pierce College 6201 Winnetka Avenue
Woodland Hills, California 91371
(818) 347-0551
ierce College is a tax-supported educational institution which offers post-high school opportunities for men and women and is administered by the Los Angeles Community College District.

## Accreditation

Los Angeles Pierce College is acceredited by the Accrediting Commission for Community and Junior Colleges of the Western ssociation of Schools and Colleges, (3402 Mendocino Avenue, Santa Rosa, CA 95403 (707)569-9177), an institutional accrediting body recognixed by the Comumission on Recognition of Possecondary Accreditation and the U.S. Department of Education.

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## Accuracy Statement

The Los Angeles Community College District and Los Angeles Pierce College have made every effort to make this catalog accurate and may, without notice, change general information, courses, or programs offered. The reasons for change may include student enrollment, level of funding, or other issues decided by the district or college. The district and college also reserve the right to add to, change, or cancel any rules, regulations, policies and procedures as provided by law.

## Los Angeles Community College District

770 Withire Boulevad
Les Angcles, California 90017
(213) 891-2000

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## Mendiscrimination Pallicy

Al Phogams and acividier of the Lon Angolen Commonity Colloge Dierriar duall be operanod in a munser which is firee of divcrimination on the basir of racr, colot, national origin, ancesty, relipion, aeed, ses, pregnangs marital nans, medical condivine (canoer related), scoul oriensation, ape, diabligs or veserans statas (Reference Boand Rule 1202).

## Equat Opportunity Poticy Cenpillance Proceture

In ender to inuure Equal Opporsanity Policy Compliance ar Lat Angeles Nierce Collegs. please direat inguleies so the College Compliance Officer Thillip Peinoo at (818) 710-4206. In addition, inquiries may be directed to An Berge at the Districa Offica of Affirmanve Action at (215) 891-2000, ext 2315.

## Ropla de No Diseriminaelion

Todos los programas y actividader del Los Angeles Community College Diveriar se implenentun de muners que sea libee de discriminacifo a base de ram, colot, nacionalidad, anteryan-
 Incupacidal o al ua o so sea weurano (Referencia: Regha 1202 de la Janta).

## Politica de Acenrdo cen les Procedimientos de Igealdad de Oportunidades

Para poder asepratr ipualdad de oportunidader en Los Angren Piesce Collgge, por favor diriju sur potgonas a Phillip Peason (515) 710-4206.
Adenhs, Puode umbitn dirigir sur pregguncas a An Bergo en le oficina de Aecibo Afirmuiva del Datrim, velkfons (213) 891-2000, ext. 2315.


## A Message From The President

Tthe new academic year is a door; one that opens to a multitude of possibilities for growth, a changed perspective, or the attainment of a cherished goal.

The academic year may also be, to use a relatively new cliché, a window of opportunity, that can be taken full advantage of, or allowed to close, along with the opportunities that will never again return.

The decision is yours: seize it, and make it serve your purpose, whatever academic or job training purpose you have in mind. Or, let it pass you by.

This catalog is actually a collection of many windows of opportunities disguised as different programs and courses.

The clearer you are about your goals, the easier it is to use to help yourself. Check it out, carefully.

If, perchance, you are not quite clear about your goals, this catalog can still help you. Look under "Counseling Services."

My very best to you for this semester,

E. Bing Inocencio, Ph.D.

President

## General Information

# College Information 

## History of the College

Las Angeles Pierce Colloge han been a landmark in the Wor Sas Fernando Valley for 50 yers. In December 1943, 392 acres of land ser in rolling hills was parchased to establish the Clarence W. Pierce Schoot of Agricutrume niamed after the Los Angles Ciry Boand of Education member instrumental in forming the new college over the objections of many who thought the Wert Valley too rural to support a learning inatitution.

The fist dasser at Rietse, which were designed to provide tectnical and practical agricultural training, beyan in the fall of 1947 under bare light bulhs in makelhift clasrooms created from quonset hats salvaged form Word War IL. The Collegr's firs students, 212 World War It vetrans (77 fill-time and 135 part-time male stadents) earolled in 46 courves and weathered the sun, the winds, power failures, floodk, and mud.

Comenunity pressures and demands soon caised the Collcge to brouden its educational scope and aloo to sdmit women in February 1951. In the summer of 1956 , by official action of the Boand of Edncation, the Colloge name war changod to Los Angres Mierce College. Under this new name, the College continises as one of nine colleges in the Las Angedes Community Collape Dearia.
As the Callger has bailk permanent clammoms. Labonarios, and athleric facilities, the murrounding land has aho developed. Now Warner Ranch, the last remaining farmland ro the west, has been seplaced by a well-planned busincs park and sopping eentern.

Today the College serves a highly literate population, preparing tradents to role their place or to retrain in other induarries as the formfinnt of tochnological advances. The College remains unique to the greser Ler Angeles area because of its farm and iss instructional program in agriculnure, natural resources management, animal health technology, and related fields, but may be bet characturiad by its benad range of intructional programs. Sendents may also choose to purnue a program in liberal aros and sciences and then transfer to a fout year collige or universing, or they may seleat from 50 ocruputional fidds including computer technologes, journalium. muning and allied health, office adminiartaion, welding, numerical contmi, and quality memence.

Complementing the inamactional programs are communiry services workshops for adults and children on topics of the day.

## College Campus

Fierce College is located on 427 acres in the wotern San Femando Valley. Founded in 1947 as an agricultural college, large seczions of rillable and range land have been preserved as an enclave wiskin a suluibin environmens. The Colloge mainesins houds of catle, sheep, and swille, as well as orthards of cirrus and other deciduous ueos. Part of the colloge land, Canyon de Lana, located in the nonthern end of the Clalk Hills, has been ser aide as a nature peserve. This aien of campus also serves as a foolling ground for lage focke of Canaly prote during the winter manths.

Besides daurooms and laboratories, the Colloge maintains many special facilities to supplement its educational and extracurricalar programs. Athletic ficitities include a stadium, basetall fidd, tennis courts, swimming pool, and an equestrian arena. The Colloge is also proud of its library, Learning Center, writing and math labs, Career Center, Campun Center, cafeteris, bookstore, and Performing Arts Bulliling, Morr college faciliter are accessible to students with physical handicapa.

## The College Colors

The Colloge colors, selected by the andents of Pierce Colloge in 1947, are scarlet and white.

## Regular Program

The regular program consists of two semesters, generally 20 weeka in length. Clases are scheduled from 7 am . to 10 pm . There are also Sarurday offerings. All college classer are open to regularly enrolled stadents.

Couner in the late afternoon and evening are deligned to meet community needs for specialized vocational and general edvcation counses, at well as courses which transfer to four-ycar colleges and universities. These dasses are taught by the regular college faculty and experienced inutructors from all the intructional disciplines.

## Summer Session

Summer Sesion will be offered sabject to appooval by the Boand of Trumees.

## Library

The Pierce College Library contains a collection of over 100,000 volumes, including books and materials reypuired for supplementary study, and a reprosentative collection of recreational reading material. The Library subcriber to almon 400 periodicals and newspapers, and has an extensive microfilm and microfiche collection. The public access catalog, current indeas, and INFOTRAC help locate information to be found in books, magarines, and pampetets. Profenional hibrarians are always available to assist Library patrons.

The Library is centrally located on the main campuas mall. The building was complered in 1961 with facilities augmented in 1979. The addition brought arack capacity for books up to 120,000 , provided for an enlarged and improved periodicals room, increased seating capaciry by 200 stations, and offered undents other conveniences such as group study areas and a typing room. A brochure is available to help smudents get acquainted with Libray resources. Those who want to leam more about tibrary research methods may be interested in a self-paced one-unit course offered by the Library. Further information is available in the Library.

## Educational Philosophy

The Les Angeles Community Colleges affirm the principle that individuals should have opporrunities to develop to their full potential. To that end, our main responsibility is to students and to the provition of edacation which benefits students and enables them to contribate to society.
Our colliges, therefoee, should be accessible to all individuals who hrve the capaciry and motivation to profit from higher education. Curricula and services of our collieger should provide means for fulfilling the promise of open access. We recognite the necessity to alapt to the changing educational neods of the Los Angres Community Colleges' communities and to the growing divensity among our students. The quality of the educational experience is to be judged by its value to atradents and the community, not merely by quantitative measurec. We further recognite that academic freedom is esential to excellence in education.

The missinn of the los Angeles Commaunity Colleges is to provide comprdvensive lower-division general education, occupational education, transfer elucation, transitional education, counseling and guidance, communiry services, and continuing cducation programs which are appropriate to the communities served and which mert the changing needs of students for academic and occupational proparation, citisenship, and cultural underranding
In purnuit of this mission, we endeavor tor

- promote equal opportunity for participations
- maintain appropriate standards for academic achievement,
- provide an educational environment which meets the needs of sudents with varied learning skills;
- provide support services which contribute to instructional effectiveness and sudent success
- affirm the importance of multi-cultural, international, and inter-cultural collegiate experiences that foster individual and group undentanding
- manage effectively educational and financial resourcos.


## Limited English Proficiency

Occuparional education classes are open to all students. Although the lack of proficioncy in English is no barrier to enrollment in occupational education cournes, it is aggested that studens deficient in English utitire the services of the Colloge that are provided for penons who are limited in Eighlish proficiency:

## Functions Of The Community Colleges

To accomplish the educational philonophy and mision of the Los Angeles Comumuniny Colloges, Los Angeles Pierce College offen she following types of educational programe.
TRANSFER. A colloge tranifer program which enable the atmdent who completes two yean of sindy to continue into upper division work ar accredited four-year colleges and universities through carefial and continuous arricalation with accredlited collegiate institutions and high schools.
OCCUPAIIONAL An ocoupatiomal education program planned to offer the undent havic besiness, technical, and profervional curricula to develop skilit which can lead to employement, job advancement, cervification, of the asociate degree.
GENERAL EDUCAIION. A program of general educarion compried of anociate degree programs and otber planned experience which develop knowledge, skalls, and atritudes necetary for the student to be offective ar a person, a member, a worker, and a citisen, thercty enhancing the quality of life for the individual and for the society at large.
TRANSITIONAL EDUCATION. A program of remedial and bavic akilln education for andedess needing peparation for communiry college level coevines and programes and Enflich as a Second Iangage inatruction for immigranss, forcige mudents and orher sudents with fimited Engbith profickency:
COUNSEUNG AND GUIDANCE. A counseling and gaidance program incorporating academic, carecs, and personal counseling and asuitance in matters of admimions, financial aid, job placement and stuident activiriec to astist the student in the esabtiahment of efucational grals and in the relection and pursuit of a tife work compatilke with hir or her interess, aptitudes, and ablititio.
CONTINUING EDUCATION. A peoyram of continuing education comprised of gradod and ungraded clases to provide opportunitia for penenal and occupational enmpetence thar mpplement formal for ${ }^{-1}$-time collitge attendance:

COMMUNITY SERVICES, A program of communiry services offorod to meet the needs of the commanity for vocational and recreatioal counes, commanity and culraral events, and civic functions, camplecty financed by fees chuggod those in atendance.
JOINT PROGRAMS. Joint peograms with basines, industry, habor, education, government and other institutions which are of mutual bencfit to sponsoring institutions, enhance the edscational opportuaities of program participants, and advance the mission and functions of the District.

## College Goals

Below ave lated the various aupects of campas life that Ficree Colloge believes to be important, and out aspirations with iggand to exch.

CAMPUS: To preare the central campes bordered by Winnecik. Victory, De Sorto, and Ornand for the repport of criting and firure colloge programe.

COLEGLALTTV: To Burnure a foling of bolonging involvement, and sharing in the procos necessary to reach college gouls and personal fulfiliment.

COMMUNICATION: To improve the communication nework to enhance undersuanding, purticipation, and decision making

COMMUNITY INVOLVEMENE: To work with the commanity as educator, as provider of servicas, as nelghbor, and as a parmer in community devlopment.
CULTURAL CENTER: To further devclop the variery of high viahility performing and vinal ars while integrating our activitica with the cultural development of the West San Fermando Valies;

DECISION MAKING: To develop and implement a plan to diatribute and decentralite decition making to its most effictive leed.

ENVIRONMENE: To improwe the apparance, Referf, comforf, and cleanlines of the campus, while perserving a rural atmophere.
EOUIPMENT: To develop and implement a coordinated plan to acquite ate of -the-at equipment through fund raiding, VNTFA. erant propools, induarial lisions, and non-traditional isurces.

FACIUTIES: To maintain a faclities plan to meet the nends of the College:

MANAGEMENT: To develop and implement a amategic manapenent plan to be und ia propran evaluation and nesource allocation.
MARKETING: To aurract the community to the many oppornunitics and quality programs of the Colloge

OCCUPAMONAL EDUCATION: To provide up-to-date and comipechensive occupational programs so that itudents can become valued employes.

STAFFWE: To mxintain a funcrional levd of saffing in academic programs and support servicas in accondance with alfirnative action principles
STUDENT CAMPUS LIFE. To encourage stualents and staden ofganirations to aumene acalemic, social, cultural, and recrational roponihilitics.

TRANSFER EDUCATION: To mainuain a tramfer colucation program from which undens can transfor to a univenity with full academic patity

## Advisory Committees

Adrisory Commitrees lonil antitance to the Colloge in the devdopment of occupational programs thar will prepare Medens for uscfit and protuctive tives. The comumitue mombers make luown the occuputional needs as diey perviin to employable shith in the specific ocroppation and in the gougraphic arra of the Colloges, and
report on changing technology as it might affect the College programs.
Advisory Comminter ate earemely important in the development of a two-way oysem of undertanding and communicution and for the purtnenhips that ate nocersary between the College and the community

## Affirmative Action

The policy of the Las Angedes Communiry College District is to implement affirmativdy equal opportuniry to all qualified employees and applicants for emplogment withour regand to race, color, national oxigin, ancestry, recligion, creed, sex, pregnancy, ages, disability, marital starus, modical condition (cancer related), sexual orientation, of veteran satus. Positive action will be taken to ensure that this policy is followed in all pernonel peactices, including recruitment, hiring, phoement, upgrading, transfex, demotion, trearment during emplogment, rate of puy or other forms of compensation, selection for training, leyoff, or termination. A vigorous Affirmative Action Program will be maintained to ensure appropriate urilization of certain prosected groups in specific areas and levels within the district workforce through the implementation of specific result-oriented procedures and activities (Board Rale 101301).

Inguiries regarding Affirmative Action at Lat Angeles Pietce Collige should be directed to the College Compliance Officer, Phillip Peanon, at (818) 710-4206.

## Sexual Harassment Policy

The Las Angeles Communiry College District has a policy which provides formal and informal procetures for essolving complainta. Copics of the policy and procedures muy be obsained from the Compliance Officer Plitlip Parson at ex. 206, or by calling the Office of the Vice Cliancellor of Elucational Services at (213) 8912279, or the District Office of Affirmative Action Programs at (213) $891-2315$.

It is the policy of the Los Angeles Communiry Colloge District to provide an educational employment, and businets environment free from unwficome icrial advances, requests for sesual favors, and other verlul or phynical conduct or communications constituting senual haraumens. Emplogees, trudents, or obher persons acting on bchalf of the District who engage in serual harasement as defined in this policy ot lyy state or foderal law shall be mubject to disciptine, up to and including dischagge, expulsion or termination of contract.

## Academic Freedom

Acadenic freedom inautes the ficulry's right to teach and the student's right to learn. The discumion of serual ideas, taboos, behavior or language which is an intrinsic part of the course content does noe constitute sernal harasment. The Board of Trusees reaffirms its commitment to academic freedoen, bur necognizes that academic frenlom does not allow discriminatory or harassing conduc.

## Definition of Sexual Harassment

Harasument accurn when unwelcome senal advances, mquents for scaual froves, and other vertal or phyical conduct of a sernal nature:

1. Is made eirber explicitly or implicitly a term or condition of an individual's employment, academic stan, or progress
2. Has the purpose or effect of having a negative impact upon the individual's work of academic performance, or crearing an intimidering, boetile, or offensive wotk or eflucationat environment;
3. Is used as the hasis for employment or acadernic decisions or any decision affecting the individeal rgganling benefits and services, honort, programs, or activities amilable ar or through the District, regardless of nutmiuion to or rejection of such conduct.

For the purpose of further darification, sexual harassment may indude, but is not limited to the following type of conduct:

- making amwelcome, unsolicited written, vertal, phyvical and/or vistal contact with senul overtones
- vertal laraument or abuse
- unwelcome presure for data
- diyparaging remarks about onc's gender
- secist jokes about one's clothing, body, or seaul activities
- deliberate blocking of phynical movement
- olvcene gotura
- demands for sexual favors accompanied by implied or over threass
- display of sexually suggentive objects, canoons, posten
- request for sex in exchange for grades, earned or deverved, letters of recommendation, employment opportunities
- making reprisals, threats of teprisal, or implied therats of reprisal following rejection of harasment by auggexing or actually withoolding grades, promotion recommendation, schotanship recommendation or a poor performance evaluation


## Complaint Procedure

When an employee, atudents, or orher individual feels, perceives, or has actually eaperienced conduct that may constitute sexual haraument, it is that pernon's reponsibility to inform the individual engaging in such conduct thar the behavior being demonurned is offensive and mast stop.
When it is not posuible or practical to confrons the perion dirmally or If the situation continues, the condact must be repored to the Sexual Haramment Compliance Officer at the work site.

Complaines may be filed by persons other than the person who is the eccipient of the unwanted conduct.

The Sexual Haraument Compliance Officer shall receive the complaint, make notes, conduct a pecliminary investipation, and notify the alleged offender, the appropriate college Prevident or District administrator, and the Ditector of the Office of Affimarive Action Programs, within five (5) business days of a potential violation of this policy.

During the process of the investigation, the complainant/victim and the alleged offonder have the right to be represented, at all times, by a representative of their choice.

## Fach college President shall denipnate a Senual Haraument Complance Officet. The Chancellor shall designate the SHCO at the Educational Services Center:

Each college Preident, in consultration with the ASO Proident, shall designase an employee who shall serve as Advocate for Seadents.

The District shall pervide annual notice of the summary of this policy to each District employee. A wammary of the policy shall be puthlust in each college catalogue and class schedute.
The Dinector of the Office of Affirmative Action shall be assigned the respoesibility of the Disericr compliance. The Director shall provide mandatory education and training programs on sexal harasment at stipulated in this poliges

Necesaary forms to file a complaint of sexual harassment may be obtained frome the Sernal Harasament Compliance Officer at the site, and from the Office of the Dean of Students. Anyone who believes that thry are a victim of sexual harasumeat may alse call (213) 891-2315.

The ensire policy and procodurs shall be prominently poted with ocher official District announcements.

## Pre-Complaint Questionnaire

Prior to filing a formal complaint, the complainant muer purne informal rosolution by fliling a pre-complaint quetionnaite. This process is limited ta 30 day.

## False Allegations

Anyone who filer a pre-complaint quevionnaire or a complaint in which he/dhe knowingly makes false allegations of facts shall also have violared this policy and shall be mabject to applicable disciptinary action.

## Formal Complaint

If an informal resolution is not reached within thirry (30) das the formal procest will begin as the request of the complainant. In conducting the investigation, the Senual Harasment Compliance Oflicer will take evry reanoable sutp to conure due proces for all partio. The Comptiance Officer shalt, within the procribed time frame, make appropriate notification to the complainant, the alloged offender, and to the Districr administration:

Within sivry (60) calender days the SHCO thall complete the investigation and prowide a writuen repore to the collgge Proident at hivher college site, of ar she Dismict Ollice, the Vice Chancellor or the Chancellor. A copy of the report shall be sent to the Director of the Office of Affirnative Acion Program.

The collge Prevident, or at the Disrict, the Vice Chancellor or the Chuncrllof, shall independensly asess the investigative report and render a decinion. Prior to mathing the docision, the alleged offender with a repesentative of hivher choice ahall have the oppormaity to make an oral sanement, within fifteen (15) calendar days from the rexilipt of the SHCO epport.

By cerrified mail, a writen decision shall be mailed to the complainant, the alleged offender, with a copy to the Director of the Office of Affirmative Action Programs.

## Appeal

If the complainand/victim is not sutisfied with the Written Decision, he/she may appeal to the District's Boand of Trustees by submitring a written appeal to the Chancellor's Office within fifteen (15) days. The appeal shall state with particulatity the basis for the appeal.

The Chancellor shall present the written appeal, the Written Decision and the investigative report to the Boand of Thustees in dosed senion. The Board of Trumeer decision shall he the District's Final Writen Decision.

The complainunt/viceim has the right to file a writtm appeal with the State Chancellor's Office of the Californis Community Colloges within thiry ( 30 ) days of this Final District Decision.

## Additional Remedies

The complainant of alloged victim may pursue independently civil Law remedies, including but not limited to injunctions, retraining orders, or other orders. An individual who believer that he/she is the victim of scxual haraument may also file a complaint with the Department of Fair Employment and Hoesing. The Equal Employment Oppormuniry Commission, the Office for Civil Rights, Unined States Depanment of Education, whether of noe the complainant chooses to utatiae the Distrik's internat procedure.

## Confidentiality

All penons involved in invertigation of complainss mall maintain the confidentiality of the marten discused, except as may be roquired or permitred by law, which include the ruler and regularions of the Distric.

A complete recond of each complaint and invertigation shall be kept by the Director of the Office of Affirmative Action Programa.

The Written Decirion reganding the reults of the inventigation shall be placed in the penonnel file of each employee involved an an alleped offender, alleged victim or complainant.

## Disciplinary Procedure

Disciplinary action, if any, ahall be pansed in accordance with the alleged offender's due process riphts, as defined by law, the Boand Rules, the Fenonnd Commimion, and/or any applicable collective bargeining agreement or Memsoranda of Understanding,

Disciplinary wation shall include, wifhout limitation, verbal warning, peobation, maypension or expulaion, lettens of meprimand, Notices of Unsutisfactory Service, mupenvions, demotions or dimisals.

## Retallation

Aspone who makes a complaint, or participates in any action authorived under this policy, ahall not be subject to retaliatory action of any kind ly any employze or modent of the Lis Angeles Comumunity Colloge District.

## Sexual Assault

The Les Angries Commanity College District is committed to providing a safe environment for is mudents, fsculty, and ataff. The Loi Angder Community College Districs Boand of Trusees condemns any act of vezual axault committed on any of iss facilities. In the event of scrial amaclt committed oe grounds or in facilities maintained and/or used by the Ditrict, any victim of a serual amaule who is une of the District's studenes, ficuly, teaff, of visitnes shall promptly teceive appropriate tratment and full and accurate information. Individurals who commit sexual anault while on propertien within the conurol of the Dierrict thall be mbject to appropriate criminal prosecation and/or District disciplinary procedures.

Confidentiality is fundamental to all aspects of caser dealing with sexual auault. The names of sexual assult victims shall not be revested by penons responsithe for imptementing and enforcing the provisions of this Chapter, except with the consent of the victim.

## Instructional Alternatives

## Honors Program

The Pierce Collige Honots Program is deligned for serious, motivated andenes. The program offen approximately 10 academically enriched general education counes each semester. These courses are challenging and enhance the academic akills necessary for successful unnufer. For further information see the current Schedule of Clases or call (818) 719-6485.

## Eligibility

There are two basic cligibility requiremente grade point average and college-level writing abdity. High school graduates need a 3.0 cumulative GPA, and Pierce students need a 3.0 GPA . in all couns work including 12 or more UC-trinuferable units. All madents must qualify for College English (English 101) either by scotes on the English placement tert or by passing pretequitite cournes.

## Transfer

Honors Program smadents moccesfially transfer to colloges and universities actoss the country. However, we have a special arrangement with the UCLA Transfer Alliance Program. Seudents whe complete ar leart 60 units in a partern that satisfies both the UC lower division and major course requirements, complete at least dighe (8) Honons casses or 24 Honors units within these 60 units, and maintain an overall grade point average of 3.25 , aze digible for the TAP certification.

Satifictory completion of the above guaranteres prioviry conulderation for admiesion to the UCLA College of Letters and Science with junior standing, Similar agreements with Chapenas Univenity, Occidental Colloge, Pepperdine University, Pomona College, UC Invine, UC Santa Crus, UC Riveriide, and USC ane avalable.

## Application

To be admitted to the Honons Program you muse meet the above digibility requiremens, file a completed Honors Program ${ }^{\text {application, send an official copy of all high school transcripts to the }}$ Honors Program Ottice, and take the English placement test. Applicatlons are wailable in the Honoss Program Office,
ADM 1027.

## Program Bencfits

Seudents in the Honors Program have early bookatore priviliges, special Honons couruding, and recognition both on the transcript and at graduation.

In addition, Honos chaser are limited to swenty-five stradenas, All Honers suadean aloo reccive the special services provided by membertip in the UCL. A Thanfer Alliuser Program whedier or not they are planning to trander to UCIA. These services indude a fiee UCLA Colloge Library card, tickets to cultural events, and mach more. USC and Peppertine also offer tickets to cultural evente

## Instructional Television (ITV)

Each semester, the District-wide Instructional Television program of the Los Angeles Community Colloge District preestrt, via tdevision, a variety of traniferable undergraduate leed coll gge cerdit courser.
Instructional Tdevision couses are convenient, lexible and apocially miedle for colloge readents needing to mpplement their on-campur program or to add dases for those times when campus attendance is not pomitle
Seudente entoll by the telephone regirtraion syyem or by muil, view telecounse losons at home or at a Campus Learning Resource Center, complete reading and study asvigrments, attend seminans held on wectends at a Les Angcle Community Coll gge near thetr home, and take a miderm and final cam.

An inservetor with office hours and phane times is asigned to each adecoune. The students ceroolled in Instructional Tilevision claner heep in wouch with ficulty by telephone, wolee mail, omall, US. mail, and fax, as well as at the seninan. Intereted students are invied to contact Inurnacional Television or visit the office located on the campur of Lot Angeles Ciry Colloges. Bungalow 120, 855 North Vermont, Los Angeder, Callfornit 90029. Call (213) 953-44 H or (818) 901-8935 for information.

## International Education Program Study Abroad Classes

Colloge credin dames are offered for the Los Angde Community Collgege District by the International Education Program. Wiah intructoes nelected from all nine colleges in the Ditrict, daver are taught in ower twenty countries around the world. Schetuled at various times throughout the year, opportunities for stualy currently indude Spanilh languge and civilination, history, and ant isurracion in Merico and Spain! French, French Civilitation and art is Prix Italian, Intian Civilitation and art in fuly;: Marine Blology in Maxicot and theater in England. On-tite invertigation of the hirtory and colture of other nations peovides students and their isarnctoss wirh some of the best educational aperiences of their live. The LACCD is a member of Califomis Colleges for International Elucation, a consortium of colleger offering semeter programs in Pruis, England, Germany, Merico, Japan, China, and Spain. The International Education Program also cooperate with the Community Service Programs at District Colloper in offering nonentit trive mudy programs.
The International Education Program expreser the ifared commitment of the Las Angdes Commanity Colloges in furthering the development of international and interculrural amareness. Call (219) 891 -2282 for firrther informution.

## The Pierce College Extension Program

Piece Ertension is the elucational outreach program of the Colloge offering community, continuing, and concract education dasse as well as cultural and recreational activities through the Office of Community Services on a not-for-credit thats.

Community Eduction provider opportunitiar for personal and pouferional development, skill imptowement and upgrading cultural enrichment and recreational enjoyment for all sges.

Continuing Education, a community-bued program, emphaites lifelang personal and proferional gromith.
Contract Edveation offers pensonalined quality claser and timely workhops to local butinest and induatry on campus or at the workplace. This program can augment a company's current training program or develop spocialined dasee to meet professional needs.
These activites are offered in addition to Piesece College's instructional program and are not academic equivalents of regular ceelit dame or pretequitites for the traditional colloge program. Most programs ate nupported by participant feer and reccive no direcc general purpose tax funds.
Through the Extension Program, Fierce Colloge hopes to serve your interests, and through you, our whole community. For a Calendar of activities or further information, please connact the Community Services Office at (818) 719-6425.

# Project For Accelerated College Education 

## The Full-Time College Transfer Program For Working Adults

of transferable college credir each semester.

- Earn from 12-14 units
- Choose to attend classes at Pierce or at a convenient off-campus location.
- Complete an associate in arts degree in just two years.
- Upon completion of the PACE program you can transfer to any UC, CSU and many private colleges and universities. It is up to you.

The PACE Program is a selcction of academic courses presented in an accelerated nine-week format designed to fit the needs of today's busy adule students. PACE students attend classes in the evening and on regularly scheduled Saturdays each quarter. Additionally, they view one hour per week, per class, of video programming intended to enhance their learning experience.

## There are three options available to PACE students:

1. The Business Option derigned to fulfill the certification and major requirements (Business Administration) for trinsfer to any California State University and most private universities;
2. The General Studies Option which satisfies the General Education transfer requirements (major requirements can be raken outside of PACE) for all University of California, California State University, and most private universities and
3. The Teacher Preparation Option which meets the lower-division transfer requirements for a California State Elementary Education teaching credential and transfer to a California State University Liberal Studies Credentialing Program.

PACE classes are presented in an interdisciplinary and integrated format. They meet from 6:00-10:00 p.m. on Tuesday, Wednesday, or Thursday evening on-campus or at one of our convenient off-campus locations. All Saturday meetings take place on the Woodland Hills campus from 8:00 a.m. - 5:00 p.m.

Students can enroll in the program prior to the beginning of any nine week term. It is required that all in-coming PACE applicants complete the following steps:

1. Complete and file an Application for Admission to the college:
2. Complete and file a PACE Program Application with the PACE Program Office;
3. Take the College English and Math Placement Tests. Enrollment in the program requires placement in English 101. However, if you do not place in English 101 and/or Math 125, PACE offers PACE offers a Bridge Program designed to help you reach these levels quickly:
4. Attend one of the PACE advisement sessions;
5. Enroll in your classes.

For further information, please contact the Program Office at 818-719-6485 or camphedelaced.cc.ca.us

# Admission \& Registration Information 

## Admission Eligibility

Aenons who possess a high school diploma or its equivalent mect the batic eligibility requirement for admission to any public California rwo-ycar community college.

Pesons who do not possess a high school diploena or itr equivalent but who meet additional criteria are also eligible for adminvion if in the judgenent of the College Admisions Officer they are capuble of profiting from the instruction offeret.

Additional eligibility criteria include:

1. Pesons who are eighteen (18) year of age:
2. Penons who are apprentices, as defined by Section 3077 of the California Labor Code.
3. Rersons is grades K-12. under special circumstances.

Information reganding ocher eligibiliey criteria and/or admission procedures is available in the Office of Admissions and Records.

## International Student Admission

leternatioeal students may be accepred to Fieree College for cither Fall or Spring Semester. The forms required for adminsion are available in the International Student' Office in the Campur Center, Each applicant must provide cvidence of a TOEFL score of 500 or completion of ELS Levd 109 or completion of Level 9 through the ESL. Division ar Californis Seste Univensiry, Northridge, a collgge application, a statement of financiat support, and a complete ser of tranicripta. A non-refundable $\$ 35$ procesing fee muit accompany each application. The deadlines for nubmision of these muterials are Nowember 15 for spring semeser and June 15 for fall semesten for out-of-country applicants. Penons who are in the United States may whmit applicarions at a later dare. July 15 for fall semester and December 7 for spring semeter.
Upon receipe of these application materials, a decinion reganding admissibility is made, and an $1-20$ is issued to the applicant. The tudent murt present the 1-20 to either the Immigration and Naruralization Service (when changing viau) or to a United Scars Embasy or Consulare (when the student is out of the country) in onder to obrais an F-1 Vias. Immigration regulations require thar all F-1 Visa atudents mast be enoolled in a minimum of 12 units each sementer.

Any F-1 Visa student who is not enrolled in 12 uniss is considered "out of statur" and jeopardizes his/her stay in the United State.
Information regarding internutional atudent admission or immigration regulations pertaining to F-1 student statua may be obtained through the International Seudents' Office.
Ser alas Internatienal Snadena Poggom, pger 38 .

## Procedures For Admission And Registration

## Admission

The following procedures mus be followal by all mudents, day or evening

1. Suhmir an Applicatios for Admissions. Application forms are available at the Information Deak binginning on the fint day of each rpplication period. Applicrtions are nocrpted as indicated in the schelule of classes. See the Collepe Calendar is the shodule of dasse for deadlines for the momision of applicatione
2. Provide a Social Security aumber on the application form. The Los Angeles Community College Dhisrict maintains a madent mexond system that unes the Social Securtity number to identify in The les Angren Community Collgge individual's recond. However, if students do not wish to report their Social Security numbers, an alternaye idencification number will be anigned by the College Changes in a mudentis IDt may be make only in the Admissions Office. All future cotreppondence and requests for transcripes and other information muat include this number: Social Security numbers, like all ocher trodent information, are confidential and will be used only as identification numbers.
h. Complete all required information. All information requesed on the application must be provided. The applicant mus declare under penalry of peciury that all information on the application is correct. All information is ubbject to verifications falsification or withholding of information thall conititute ground for divolial.
3. Take the Chemistry. Placement Test. Required only of modens who wish to enroll in Cheminery 1. General Chemintry 1, as their fint chemistry course at Pieret College.
4. Take the Physica Placement Test. Requited of all atudents planning to enroll in Mysioa 1 anles the student has completed Physics 6 with a grade of "C or betres.
5. Thike the Engtiah and math placement tests. These are required for enrallment in entry fevd linglish and mash counes.
6. Attend an advisensent sexsion. A counvelor will explain collige and tranufer requirements and hidp you plan your icheduke.
7. Reginter for classes by telephones.

## English Placement Test

The resulta of the English Placemeat Test or a valid English Earollment Aathorization Form mast be on file in order to enroll in English 20, 21, 28 or 101, 102, 103, English 81, 82, 84-87, or Engliah 101, 102, 103. Authorimations for stedents registering by telephone will be checked automatically on-line.

All andents planning to enroll in an English counc for the first time are expected to take the English Pacement Tert at the Pierce College Asemment Center (Campus Center). Contact the Assenment Center ar (B18) $719-6599$ for as appointment and sample teat information. Placenent resulte or pecrequisite courses taken at other colleges may be presented to the Assesmicnt Center to be mibstituted for the Fience Enylish Pacement Tort

Pacement recommendations made by the Englinh Placronent Teet ank advisary and intended to asiat arudens with entolling in clames where they are most likely to mocceed. Upon completing the tern, sudents are advised of their mecommended placement and given theit autheriuation to emroll. Students secking aunhoriation to enroll in a course other than that recommended by the asenment test mur meet with an Fanglish department advisot.

Students need to provide evidence of pererequisise completion cither throegh cuariework in the Les Angelas Communisy College Diutrict, by raking the Pience Englah Placement Test, or through tranicript from ocher schools presented at dhe Asemment Center:

## Mathematics Placement Test

All atudents who have not campleted a colloge mathematics counse muas take an appropriate Mathematior Placement Tost at the Pherce Colloge Aswenment Center (Campus Center), Contact the Asemment Center at ( 1818 ) $719-6499$ for an appointment and sample teats. Review is casntial becuase the test cannot be taken again for six months.

Pacement tous ate given at four levels Aggora Realiness, Eementary Algeora, Intermediate Algeora, and Fhecalculus, Upon enmplering the tex, atudents are advined of their recommended placement and given an auntoriaztion to entoll in that cosine. Seudents who wish to challenge the recommendation of the assesment tert should consult a Mathematicr Department advisor.

## Residence Requirements

## California Residence Requirement

To attend any of the Los Angeles Community Colleger as a revident of California, a sudent is required to have been a California resident for mose than one year immediately preceding the Residence Determination Date. The "Residence Determination Date" is that day immediately preceding the opening day of inutruction of the sementer or summer session. Residence is defined as a union of act and intent.

## Non-Resident

A non-resident stadent is one who has not had residence in the State of California for more than one ycar immediately preceding the Recidence Determination Date. Residence is defined as a union of act and intent. Plyyical presence alone is not sufficient to atablish Califormia revidency noe is intent when not coupled with continuous physical presence in the State. Certain non-U.S. citizens are permitred to estahlinh residency and certain othen are not. Check with the Adminnions Office regarding your particular rtatus.

A madent clastified as a non-resident will be required to pay nontesident tuition fees as established by the District Board of Trustees.

## Residence Reclassification

Students who have been clanified as non-reidents must petition to be reclasuified as residents before the start of any semester if ther feel their suass has changol. Non-resident students applying for reclassification as resident mur also show financial independence for the past three years. The Residence Reclasification form is available in the Admimions Office and must be submitred prior to the semester in which reclasification as a rexident is to be effective.

## Residence Appeal

A sudent muy appeal the revidence clanification determined by the Colloge. The appeal must be made within 30 calendar days of receipt of notification of the residence clasuification from the Adminions Office. The appeal must be submitted in writing to the Colloge Admistions Officer who will forward it to the District Residency Appeal Offices.

## Matriculation

## Matriculation - What is it?

Marriculation is a process designed to asist atudents in achieving their educational goal at Pierce Collcge, It is an agreement berween the Collfge and the student. Pietce Colloge agres to provide an ogganited process of admimion, orientation, asessment, counscling. and atudent progress follow-up. The student agrees to declare a upecific educational goal, attend clas, and complete all asigned counswork.

## What is the purpose of Matriculation?

The parpose of Matriculation is to ensure that atudents complete their collegr counes, perniat to the nexr acadenic term and achiove beir educational objective. Matriculation provides sudenes with eay wecess to the College's programs and services. These services can help you to have higher grades, complete more clases, and perist from semester to semestes.

## Who is cligible for Matriculation?

All fint-time andenos who have declared a goal of carning a certificate, AA , or transferring ate subject to matriculation.

## Matriculation at Pierce College

Matriculation is a campur-wide program. Succeis is meanured by the artainment of the student's stated efucational goal or objective. The fillowing are the components or steps of Matriculation:

Step It Assessment All mudenes who go through the matriculation procesr take an ameument exam. This anesument takes $31 / 2$ hours to complete and coven reading comptehension. grammar, caay writing, and math. The assesments are administered by the Assesument Center, and practice tests are available to help sudents peepare for the ceam. The ansesment tests help place studens in clases where they ate mont likely to succeed. Placement recommendations are advisory and intended to asist audents.

Step 2t Orientation At the rime of your ascument toting, you will view an orientation video, which will poovide you with information abour the Pierce campus, including the Colloge's peograms, services, academic expectations, and institutional procedures. All new students are encourged to Hign up for Penonal Devolopment 1, an extended orientation dan. Even if you did well in your high school counse, this counse could benciir youl

Step 3t Counseling and Advisement All matriculating trudents are required to meer with a counsdot, before registering, to develop a stadent edacational plan (SEP). This plan is an educational blueprint that outlines exactly what coumes you need to meet your educational goal. Undecided stadents are encouraged to regiter for a career counseling dass (hersonal Development 4 or 8) taught by a carest counuelof.

Step 4t Follow-up Afrec enmolling for the first semester, you will continue to recrive follow-ap services through the Counseling Department, Career Center, and Early Nert program. These services will indude help with planning your program for each semester that you are ar Pierce, peeparing to transfer, and earning an Associate degree. In addlition, the Early Alert program helpo identify sudents who begin encountering academic difficulty early in the semester.

Step 5: Matriculation Exemptions At the time of application, all students are classified as exempt or non-carmpt from various matriculation components. Oar exemption policy is lined below:

## Assesament Exemption Criteriat

(1) Sendents who have already earnod an A.A.A.S. degree or higher.
(2) Seudents who are attending Pierce with a goal of penonal interest and who have completed fewer than 16 units of colleg.e credit.

Noter Students who have complesed asenments or prerequivite courses at other colloges, and have presented this documentarion for verification to the Assesment Center Dírector, (Note: Verification maur be pesentel before an exemption can be granted).

## Orientation Exemption Criterias

(1) Seudente who have already carned an A.A./A.S. degree or higher.
(2) Students who are concurrently enrolled at a foer-year colligge or univervity and who have completed fewer than 16 units of college credit.
(3) Seudents who are concurrently enrolled in the 12 th grade of below and who have complered fewcr than 16 units of college credit.
(4) Students who are attending Pierce with a goal of penonal intereat and who have completed fewer than 16 units of college credit.

## Conaseling/Advisement Exemption Criteris:

(1) Seudents who have already earned an A.A./A.S. degree or highet.
(2) Seudents who are attending Pierce with a goal of personal incerest and who have completed fewer than 16 units of college credit.

## Matriculation Waivers

Seudents wishing to waive any matriculation component ahould roquest a walver form from the Assesment Center in the Campus Center. Please fill out the form, then return it to the Assenment Center. Yoa will need to terain a copy of the waiver.

## Alternative Matriculation Services

Piere Colloge provides the following alernative matriculation servicer

1. If English is not your primary language, you may wish to take advantage of language Assisted registration. Every day daring regiotration, interpreters in Fani, Korean, Spanish, and Vietnamese will be available to askit you with filling out registration forms.
2. In addition, Merce is in the process of translating our application questions into various languager. At the present time, you may requer information in Fani, Japanesc, Viernamese, and Spanish an the Information Deke.

If you have a physical, visual, or communication limitation that might require special assistance for any matriculation component, please come to the Marriculation Office for mose information on how the college can provide accommodationa for you.

Sradens with complaints or challenges to any matriculation peovisions may appeal to the Marriculation Coordinator in the Asseument Center or call (818) 719-6499 for more information.

## Registration Policies

## Registration

Registration in the process whendy the atualent is contered onto the College roll for the somester and is craolled ia upecific clases, All andenes will be inuard a Regiuration/Fee Receipt as the last step in the tupitiation proceli.

## Appointments to Register

Upon aceppance of a stedent's application and completion of marricalation fequirements, mew stadents will be issued a Fermir to Regiser. The furmit will provide the student with an appointment to register into dhe Collge. Regeutration is by appoinement only. Stulenes are urged to file their applications as carly as possible since appointments are given out on a firt-come fint-served bais.

## Adding and Dropping Classes

## Adding Classes

Ooly sudents who luve been admitted to the college and are in appotived active stanas may add or attend clanes.

Admitted stadenos who wish oo add a dun ence the semester begins must obvain an add cand from the inutructor or the college Add Deak. Ir is the stadent's moponsibility to have the asd procensed before the lat duy to add, which is listed in the college semener calendas.

## Dropping Classes

Suadente withing ta drop one or more clatses muse do sa through the Admissions Office by filing a DROP CARD or by using the STEP telephooer regittation mitem.

It is the unden's moponsiblity to officially drop from dass by mabmitring a drop card to the Admisvions Olfice of using the STEP retephinie $\operatorname{sys} \mathrm{cm}$. Sustents must drop by the end of the second weck of the semienter to avoit fres. Any drops of cudurions that occur berween the end of the 4 th weck (or $30 \%$ of the time the clas is scheduled, whichever is len) and the end of the 14 ch work (or $75 \%$. of the time the cass is scheotuled, whichever is leas) will tewalt in a "W' on the atadent's reconl which will be induded in the determinuzion of progress probatione. Drops are nos permitted beyond the end of the 14ch weck.

A grade (A, B, C, D, E, CR, L, of NO will be asighed to mudents who are enmolled past the and of the I4th wock even if they stop attending dass, except in cases of extenuating circumstances. After the tur duy of the 141 th med for $75 \%$ of the time the dass is schodulad, whichever is lese) sudents may withdriw from clas upon petition demonstrating extenuaring circumstances and after consaluation with the appropriate fivalty.

## District Policies

## Open Enrollment

Unless specifically exempred by liws, every course for which Seate aid is daimed is fully open to any person who has been admitted to the Collige and who meets the appropriste academic prerequisite.

## Course Prerequisites

It is the unden's obligation to know and meet course pretequisites. These are stated in the catalog description of each coune. The student will be required to file proof of meeting pretequibites. State Luw permits students to appeal any prerequibite based on the unavilability of the necesary course.

## Credit for Prerequisites

Students may not concurrently entoll in and receive credis for an advanced courne and in pertequisite(s). Stadents may not entoll in and reccive credit for the prerequisite( $(1)$ to an advanced course if they have pervioualy completed the advanced course.

Violation of this rogulation will reauk in excluxion from class and/or denial of course credit.

## Cancellation of Classes

The College tecerves the right to divcontinue any class with inmufficient enrollment.

## Pierce College Policy On Prerequisites, Corequisites, Recommended Preparation, And Limitations On Enrollment

The faculty has identified knowledge and skills that are necenary for nucees in cerrain clases. Each time you register, you need to determine if any councs you want requires previous knowledge. The catalog and schedule of diases use four terms to alow if such knowlolge is required:

PREREOUISITE means a condition of enmollment that a student is required to meet in order to demonitrate current teadiness for enrollment in a counc or educarional program (i.e., a course you muit pass, of a requirement you must meet before enrolling in a given course). Students will not be permitted to enroll in such couner and programs without the appropriate prerequitite.
COREQUISITE is a condition of enrollment consirting of a course that a student is required to take simultaneously in order to enroll in another courne (i.e., a coune you must take at the same time as another course.)

RECOMMENDED PREPARATION: means a condition of enrollment that a studeat is advised, but not required, to meet before or in enejunction with entollment in a couse or educational program (i.e. prepuration that is helpful, but not required, before enrolling in a given course).
UMITATIONS ON ENROLLMENT: A prerequiaite necessary to protect a sudent's healih and afety and the health and safery of others. (see prerequisite). Limitations on enrollment may aho apply to certain cournes (eg. performance, honors, and special programa) if compurable couns nte provided.

## Unit of Work/Study Load

Study List Limitations

Maximum and minimum unit requirements may apply, as follows
UNIT MAXIMUM. The maximum sudy load is 18 units daring a mgular semeiter and 7 units (or two clasea) during a summer seaion. The normal dass load for students in the fill or spring semester is from 12 to 18 uniss a semeter for full-time gudents. A colloge program of 15 units is equal to at least a 50 -hour work week for mont students. Students who desire to take 19 or more units may file a Petition for Excess Units in the Associase Dean of Admissions Office during the weck before the semeter bogins or the fires two weds of the semester.

Those atudents who will be employed while attending college should convider feducing their programs accordingly. It is uaggested that those atulents who are employed full-time should enmill in no more than one or two clases of 9 units maximum.

## Restricted Programs

Scudents may be required to enroll in a restricted program if their grades or teat recults indicate that this in in their best interest. The Colloge may limit sither the number of units in which a stuulent may entoll or may apecify certain subjects as a condition of enrollment. Seudents who violste such requirements will be sobject to dimmisal.

## Concurrent Enrollment

Concurrent enrollment in more than one section of the same course during a semester is not permitted, widh the exception of cerrain Minical Education clases on a limited hasis.

Cencurtent enrollment in courses which are cons-teforenced to each other is not permitred (G.e., counes designared "ame an" in the District Directory of Educational Programs and Counes) Violation of this regulation will result in exchusion from class and denial of course credit in both counes.

Fnrelling in classer scheduted or conducted during overlapping times is not permittel. In addition to caclusion from both claves and denial of credits, violaton will be subject to disciptinary action (See Standenls of Student Conduca).

## Auditing Classes

Students may be permitted to audit a class under the following cueditions:

1. Payment of a fer of $\$ 15$ per unit. Fees may not be refuaded of transforred. Students enrolled in clases to receive credit for ten or more semester units shall not be charged a foe to audit three or fewer semetter units per sementes.
2. Students anditing a course shall nor be permitred to change their enrollment in that coune to receive credit for the couse.
3. Priotity in clas enrollment shall be given to students deviting to take the course for credit.
4. Permimion to enroll in a claw on an audit basis is at the inseructor's discretion.
5. Participation in class activities by student auditors will be soldy at the discretion of the instructof, who may provide a written statement of the extent of participation allowed beyond debervation.

## Student Fees

## Enrollment Fee

Enrollment feer are set by the California Sate Lagialature and are subject to change.
Sextion 72250 and Section 72252 of the State Education Code requirrs Community Colleges to charge enrollment fees of each student enrolling in collogs. The fee prescribed by there sections is currently thitreen dollans (\$13) per unit per semester with no maximum per semester. If you take ten units, the cost will be $\$ 130$. If you take fiffeen units, the cost will be $\$ 195$ and so forth.

## See page 17 for Fee and fefand Schedulea.

If at the time of enmellinent you are rexiving benefitr under the Aid to Familier with Dependent Children Program, the Supplemental Security Iscome/Seate Supplementary Program, or the General Assisance Program, the entollment fee wilt be waival. For information on the procelune for requeating a waiver, contact the Financial Aid Office prior to the date of your enrollment.

Finuncial aid may be avilable to stulents who meet the qualification requirements. Seudents with quertions concerning financial aid digibitity hould contact the College Financial Aid Office. Applications should be submitted as soon as posxible.

## Enrollment Fee Assistance

The college offers entoliment fee assistance to students who ate unable to pay the enrollment fiee. Students should complete the Board of Governors' Enrollment Fee Waiver application (available an the Information Dect in the Adminiarration Builling as well as the College Financial Aid Office) and submit it to the college Financial Aid Office for procesting preferahly prios to earollment in clases.
The Enrollment Fee Waiver is available to sudents who receive Temporary Assistance for Needy Families (TANF) (formerly APDC),General Reticf (GR), or Supplemental Security lincome (SSD). dependenter of deceased or diabled vererans of the U.S. Military, and zudents whose houschold sise and family income fall within the following limite

| Number in Household (iwhlaling, monery) | Total 1996 Family Income (Adfuind Give himeme andor Uniaend finvere) |
| :---: | :---: |
| 1 | \$7,500 or leas |
| 2 | \$15,000 or lem |
| 3 | \$16,000 or less |
| 4 | \$17,000 or lem |
| + | Add $\$ 1,000$ for each additional dependent |

Note Students who qualify for the Enrollment Fee Waiver either by receiving bencfits listed above or by household siae and income level are alio exempt from paying the heath fee.
Stadents with financial need etablished by the Colloge Financial Aid Office may also be eligible for deferment of enrollment and health fees.

## Enrollment Fee Refund Policy

For full term counec: The sudent will recave a fill nefiund up to the end of de secuod weck of dases. Afiet that date, there will be no refuind unles a daw in cancelled or tenchedeled by the College atministration. After the wecond weck of dhe semester, foas witt hor transfor whes the rudent adds and drops, whecher or not the student has paid. Students who chroll and do not drop casos by the end of: the second weck of the sementer will remain liable for all fees.

For shoer term counser The sudent will recelve a full refund up to the end of a period of time equal to $10 \%$ of total class time. There will be no enfiugis after that, unlew the uudent musu drop a dau because ir ti cancled or redteduted ty the adminhitrution.

## Student Representation Fee

A $\$ 1$ Sculent Reperecnation Fee per semester shat is dae ar the sime of rygitration. The fee was esublishod to provide for the support of student representatives involved in gowermmental affairs.

## Non-Resident Tuition Fee

The $1995-96$ mulion fee for non-revident undens is $\$ 128$ per semoter unit for students who are noo-residents from another sate $\$ 133$ per semerter unie for trodena who are non-residenst from a forcign country. Tuition must be puld at the time of regitrution. This fee is mobject to change ach academic yeat:
Pleave note Non-reident sudenss are alos mpairal to pay the comununiry colloge entollmeat fee.

Students must dryp rlanes if the refiund doedline in onier to aveid being charged the ennollmemt fee and the non-revident tuition for. In
 mudmur add and drop clases, wituther ar nat fari Anve twer puld

## Non-Resident Tuition Refund Criteria and Schedule

Non-recident stadentr who formally deop part or all of their entollment may mqueus a tefind of peevioully paid non-resident tuition in accondance with the schedule below. Soch tequest must be made in writing on a form prowided by the District.
The date unad for non-resident refund purposer is the date on which such requess is filel and time stamped, regardlen of when sepuration may have occourred. All noa-raident effunds will be made by mail.

Non-resident refunds will be computed as follown:

| cuss Tmit | ant meutstis TIME STMMPED | nefung |
| :---: | :---: | :---: |
| hepular Lengen Fall Hpring Samert | Through secoso werk of interaxion | Full Tation |
|  | Afoer <br> necond week of <br> inntruction | No Refund |
| Shert Tere Bens than regalar lengt) | Throuph 10 pencest of daus | Full Tuike |
|  | Afer 10 percem of dan lengh | No. refond |

## Parking Fee

A parking permit is required at all times when using campus parking facilities daring regular school hours, 7 amL - $10 \mathrm{p} . \mathrm{m} .$, Monday through Thursday: $7 \mathrm{am} .-3$ pm., Fridays Saturday, $7 \mathrm{am},-3 \mathrm{pm}$.

The Board of Thusteer of the Los Angeler Communiry Colloge District has authorized parking fees for all on-campus parking at diarict colleges.

To encourage membenhip in the Pierce College Associated Students Organization, the College Adminitrextion has entered into an agroement with the ASO whereby individuals who both pay the District parking foe and join the Associated Scudent Organization will receive as a benefit of membership preferted parking peivileger on campus, Students diyplaying a Preferred Student Parking Decal may park, if space is available, in all student parking lots, inchuding the proferred loes ( 1,6 , and 7 ), as well as legally allowable uteer parking space. The non-pefferred parking lots (permit required) are 1.2, and 4.

## Fall And Spring Somester Parking Permit Fees

| Non-Preferred/Reatricted District Permit | $\$ 20.00$ |
| :--- | ---: |
| A.S.O. Parking Fee | $\$ 7.00$ |
| Preferred/Non-Restricted Permis TOTAL FEE | $\$ 27.00$ |
| Charge te replace Lest pernalt | $\$ 20.00$ |

Summer Sessioa Parking Pormit Fees

| Non-Preferred/Restricted District Permilt | $\$ 7.00$ |
| :--- | ---: |
| A.S.O. Perhing Fee | $\$ 3.00$ |
| Preferred/Non-Reatricted Permit TOTAL FEE | $\$ 10.00$ |

Parking feas may be paid priar to the completion of regiatration. Seudenta who do not clecr to purchase the permir at that time may do so at any time during the semetert at the campus Busines Office located next to the Bookstore.
Each student who pays the parking fees will be isued dry-mount parking decals. These decals are to be permanently artached to the front windshield in the comer on the pasenger side.

It is the zudene' roponribility to make sure they know the cursent parking rules and rggulations if not mure, contact the Safecy and Police Office. It is also the atadents' responsibility to make sure the carrent decal is vivible to College Police Officens. The college is not roponsible for lost permits under any circumatances.
Note The ismance of a parking decal does not guarantee the audent a parking space, coly the opporruniry to park in an appropriate lot if puces are available. Any vehicle parked in the areas withour the proper permit appropriatdy displayed will be cited.

## SEE CLASS SCHEDULE FOR FURTHER INFORMATION.

## Associated Student Membership Fee

Experience has demonstrated that mudent activities are esential features in the program of the Colloges. These acrivites and programs ane financed by moncy reccived from memberhhips in the Associated Students Organization. The charge is $\$ 7$ per sementer.

The funds thus collected will be spent for the general welfart of dhe students in accordance with policies, rules, and regulations defined by the Board of Trusecs. Membership in the Ausciated Students Organiration is encouraged for all sradents, but is not mandatory:

Upen complete withdrawal from the college, the stadent may receive a refiund of the Associared Srudent memberihip fee as follown

Fall And Spring Semesters

| Amoant Paid | 1st Week | 2nd Week |
| :---: | :---: | :---: |
| \$7.00 | \$7.00 | \$7.00 |
| Amount Paid | Summer Session 1st Week | 2nd Week |
| \$3.00 | 53.00 | -0. |

Boand of Truzees rules govern the collection, deposit and expenditures of these funds. All records are andired annually by representatives of the foard of Truntees.

## Instructional Materials

Scudents may be required to provide instructional and acher materials for a credit or non-credit coune. Sach materials shall be of continuing value to a stualent outside of the clasroom setting and shall not be soldy or exclusively available froen the Ditrict.

## Fee And Refund Schedule

| TYPE OF FEE | AMOUNT | REFUND DEADUNE |
| :--- | :--- | :--- |
| Enrollment Fee | $\$ 13$ per unit | End of the second week of the semester <br> (Deadline for ahort term clases will be <br> different for each dass) |


| Non-resident Tuition |  |  |
| :---: | :---: | :---: |
| (All nen-reident muden | 0 maut |  |
| Agy de $\$ 13$ for whit enralliment foe in alditian to nom-rnident mitition) |  |  |
| Students from |  |  |
| another State | \$128 per unit | End of the second week of the semester |
| Students from another country: | $\$ 133$ per unit | (Deadline for short term claser will be |
| International |  |  |
| Student (F1 VTSA) |  |  |
| Application Fee: | \$35 |  |
| Health Services Foe | \$7.50 | End of the second week of the semester |
| Audit Fee | $\$ 15$ per unit (Stadents who have | NOT REFUNDABLE |
|  |  |  |
|  | enrolled in 10 units |  |
|  | or more may aodit up to 3 units without charge) |  |
|  |  |  |  |
| Student <br> Alopresentation Fee | \$1 | End of the second week of semester when student withdraws from all daser |
|  |  |  |
| Parking Fee | 520 | End of the second weck of the sementer |
| Associated Students <br> Organization <br> Membership Fee | \$7 | End of the first week of the semerter - $\$ 7$ <br> End of second week - $\$ 5$ |
|  |  |  |
|  |  |  |
| Other Fees |  |  |
| Emergency Processing of Transcript ss |  |  |
|  |  |  |  |  |
| Verification of Earollm |  | \$1 |
| Recond of Work in Progrens |  | \$1 |
| Transcript |  | \$1 |
|  <br>  <br>  <br>  |  |  |

# Scholastic Policies 

## Attendance

Only sudenss who have been admitted to the College and are in approved acrive status may attend clases,
Seudents should arrend every meeting of all claser for which they register To avoid being dropped from das, studenas thould contact the instructor when they are ahsear for entergency reasons.

Shudents who are registerd in a dass and mies the first meeting may lone theit right to a place in the dam, but the inatructor may consider upecial cinoamutances. During the fint 14 weck of the semester, nhenever sudenes have uneraused abiences in cacess of the number of hurers the dass meets per wock, the instructor may oclude them from clans, In addition, the instnctor will consider wherther there are mitiguting circumstances which may justify the aboences. If the Isimsictur determines that moch circumstances do not aist, the inurnctor shall exdude a student from the dam.

Students are repponsible for officially dropping a dass that they stop attending. See section "Adding and Dropping,"

## Campas Procedure

Students who because of mitigating circumstancer are unable to arrend the first claw meeting must leave a written menage for the froulty member ar the Information Dak in the foyor of the Adminimration Builling. Tdichone calls with mad information will not be acrepted.

## Leave of Absence

A leave of alisence is granted only by the instructot, and it is the requonsikility of the student to satisfy the instructor as to the validity of the request for a lcave of absence.

## Withdrawal

Sendents iatending to withdraw should avail thenselves of the opportunity by firs discusing the contemplated withdrawal with a counseloe. Whether withdrawing from one clas or all clases in which ehe medent it enmilled, it is essentiat that uandard withdrawal procedures be observed by filling out the proper forms in the Reconls Office.

## Lecture and Laboratory Credit

In comporing the number of units granted for any course. Pierce College follows the goneral practice of granting one unit of credit for each lecrure hour per week en the semester bawis.
The Colloge requires two or more hours of attendance per week for each unit of credit for non-lecture periods (laboramey, fidd work, physical education) whida require a minimum of outride preparation.

## Final Examinations

Final examinations are to be given in all subjects acconding to the scholule printed in the Schedule of Clases. No srudent will be excused from taking a final eamination.

All ficulty shall recain the final exams of every student for a minimum of one year after the end of the semester for which the final exam was given it orler to permit students to examine fhic graded final exams.

## Grades \& Grading Policies

## Grading Symbols and Definitions

Only the symbols in the grading sale given in this section shall be used to grade all counes offered in fulfillment of the requirements for an asociate or baccalaureate degree, a cerrificate, diploma, or license.
Grader shall be averaged on the basis of the point equivalencies to determine a atudent's grade-point-avorage, twing the following evaluative symboly

| s7mat | derwinow | Gende |
| :---: | :---: | :---: |
| A | Excellent | 4 |
| B | Good | 3 |
| C | Satisfactory | 2 |
| D | Pasing, less than sutinfactory | 1 |
| F | Failing | 0 |
| C8 | Credir (at leas gqual to a ${ }^{\text {"C }} \mathrm{C}$ prode of hetter-unitf gwh of are Bot counted in GID) |  |
| NC | No-Credit (equal to a "D" or "FP grade -units are not counted in GPP) |  |

## (CR and NC gradry may be giorw anty in ouanss ewethoritend by she 

The following non-evaluative symbols may be entered on a susdent's record:

## \$pmbel Deflinition

I Incomplete
Incomplete academic work for unforeseable encrgency and jautifulle reawns as the ond of the term may reaslt in an " T " symbol being entered is the student's rocurd. The condition for removal of the "T" shall be stated by the inutructor in a written recond.

This recond thall consain the conditions for removal of the "I" and a default grade to be assigned if missing work is not completed within one year freen the end of the course. This record bhall be given to the student, with a copy on file in the Colloge Admianions Office uneil the "T' is made up or the one-yrar time limir has pased.

A final grade shall be anigned when the work stipulared has been complered and evaluated, or when the oneyear time limit for completing the work has passod.
The "T' symbol shall not be used in calculating units attempted nor for grade points. THE "T MAY BE MADE UP NO LATER THAN ONE YEAR FOLLOWING THE END OF THE TERM TN WHICH IT WAS ASSIGNED. The student may petition for a time atmaion due to unusual circumstances.
Note: Courses in which the sundent has received an Incomplete ("I') may not be repeased unleas the "T" is removed and has been replaced by a grade of "D" or "F". This does not apply to couser which are tepeatable for addlitional credit.

## IP In Progress

The "IF" symbol shall be used only in those courner which extend beyond the normal end of an academic term. "IP" indicates that work is "in progress," but that assignment of a mbutantive grade must await its completion. The "IP" symbol stall remain on the atudent's permanent recoed in order to satify enrollment documentation. The appropriate craluaive grade and unit credit shall be asigned and appear on the student's record for the term in which the required woek of the course is completed. The "IP" hall not be used in calculating grade-point-averager. If a stadent enrolled in an "open-enrry, open-cit" coune is assigned "IP" at the end of an attendance period and doer nor complete the coune daring the whequent attendance period, the appropriate ficulty will anign an evaluative symbol (grade) as specified abowe to be recorded on the eudent's permanent recond for the course.

## RD Report Delayed

The "RD" symbol may be asigned by the tegistrat only. It is to be used when these is a delay in reporting the grade of a student due to circumstances beyond the control of the andent. It is a temporary notation to be replaced by a permanent symbol as toon as poenible. "RD" is not used in calculating grade point averages.

## W Withdrawal

Seodentr may withdraw from a dass or clases chrough the last day of the fourteenth weck of instruction or $75 \%$ of the time the class is scheduled to meet, whichever is less. To withdraw, complete a Drop Cand in the Adminions and Reconds Office or use the STEP telephone wytem.
No notation ("W) or other) shall be made on the record of a arudent who withdraws during the firm four weeks, of $30 \%$ of the time the das is scheduled, whichever is less.
Withdrawal berween the end of the fourth weck (or $30 \%$ of the time the clas is scheduled to meet, whichever is less) and the last day of the fourteenth weck of instruction (or $75 \%$ of the time the class is scheduled to meet, whicherer is less) will rexult in a grade of " $W$ ". A uudent who remains in clas begond the fourteenth week or $75 \%$ of the time the class is scheduled shall be given a grade other than a
"W., except in case of extenuating circumstances.

After the last day of the fourteenth weck (or $75 \%$ of the time the das is scheduled, whichever is less), the srudent may withdraw from clas upon petition demoostrating extenuating circumstances and after conauleation with the appropriate faculty: Seudents should obrain a perition in the Admistions Office. Exrensating circumstances are verified cases of accidents, illness, or other circumstances beyond the control of the student. Wirthdrawal affer the end of the fourteenth week (or $75 \%$ of the time the class is scheduled, whichever is len) which has boen amthorized in extenuating circumstances whall be recoeded as "W".
The "W" shall not be used in calculating units attempted nor for the stadent's grade-point-average.
"Wr" will be used as factons in progress probation and dimisul.

## Credit/No-Credit Option

The College President may designate couns in the College Caralog wherein all stadenss are evaluared on a "credit/no-credir" basis or wherein each student may elect, no later than the end of the fint $30 \%$ of the term, whether the basis of craluanion is no be "credit/nocredir" or a letter grade. These counes will be noted in the Collige Schedule an being eligible for the Credit/No-Credit Option.

1. USAGE FOR SINGLE PERFORMANCE randand. The credit/no-credir grading syutem shall be used in any coune is which there is a single satifactory grandard of performance for which unit credit is anigned. A grade of Credit (CR) shall be asigned for meeting that standand, and a grade of No -Credit ( NC ) thall be amigned for fillure to does.
2. ACCEPTANCE OF CREDITS, All units earned on a "credie/no-credir" buis in accredited California institutions of higher education or equivalent out-of-state inspinutions shall be counted in arlifiction of community college curriculam requirements.
3. RECORDING OF GRADE A mudent who is approved to be evaluated on the "credir/no-credit" basis shall receive both course credir and unit credit upon atinficrory completion of the counc. Sarinfactory completion for credit is equivalent to the grade of "C' or better. A stadent who does not perform sarinfactorily will be assigned a "No-Credir" (NC) grade.
4. GRADE POINT CALCULATION, Units earnet on a "credit/no-credit" hasis shall not be med to calculate graide-point-averages. However, units attempted for which "No-Credir" (NO) in recorded thall be considered in probationary and dismisul procedures.
5. STANDARDS OF EVALUATTON. The rudent who is enrolled in a courne on a "ceditho-credis" basis will be held reponsible for all amignments and examinationt required in the course and must meet the standards of evaluation which are identical for all students.
6. CONVERSION TO LETTER GRADE. A sudent who has received crodit for a course taken on a "credit/no-credit" hasis may not convert this credit to a letter grade.
7. COURSE REPETTION, A sudent who has received a grade of "No-Credir" (NO) may repeat the course by meeting the requirements set forth by the District Course Repetition to Improve Substandand Grades Policy:

## 8. CAMPUS PROCEDURE

- Certain courses, noted in the Schedule of Clases, are evalused on a Credit/No Credit buis only. Letter grades muy not be asigned for these courses.
a In addition to courses mentioned above, a sudent has the option of selecting one course per temester to be graded on a Credit/No Credit basis. Thir option is avallable only for courses lised in the Schedule of Clases under "Courses Offered on a Credit/No Credir Bais."
- Selection of cuuner to be taken on a Credir/No Credit basis murt be mude during the time indicated in the schedule. late requests will not be accepted.
a Once a course has been relected to be graded on a Credit/No Credit banis, a anudent cannot receive a leter grade for the course. The decition to take a course on this basis is irrevocable.
- The general practice at most four-year colleger is not to accept "credia/no crodit" grades for cournes required for the major or preparation for the major. A stadent planning to transfor to UCLA is required to have ar leur 42 unies in mgular letter grades.


## Grades and Grade Changes

The instructor of the coune shall determine the grade to be awarded to each student in accordance with the preceding Grading Symbols and Definitions Poticy. The determination of the stadent's grade by the instructor is final in the aluence of mistake, fruud, bad faith, or incompetency The removal or change of an incocrect grade from a arudent's recoed shall be done ooly upon authorization by the insenuctor of the couns.

In the case of fraud, bad faith, or incompetency, the final determination concerning removal or change of grade will be made by the Colloge President.

## Campus Procedure

Srudents should see the counse instructor for a grade change. If the instructor is no longer on campus, atudenes may petirion the Office of Academic Affairs to have an instructor recvalaation of a course grade, provided the grade in question was originally imoed within the lat two years, Grade changes will not be considered for grader issued more chan 2 years aga.

## Transcripts

Upon written request of the atudent, a copy of the stadent's academic tecoed shall be forwarded to the student or hir or her derignated addressee prompdy by U.S. muil or ocher responsilite furwarding agency.

A student of former stradent shall be entided to two free copies of the transcript of his or her recoed or to two free verifications of atudent records. Additional copion shall be made available to the sudent, or to an addresier dosigriated by the madent, at a cost of $\$ 1$. Students myy requart ipecial procesing to eapedite their request for an additional fee of $\$ \$$ per transcript or verification. This option is subject to the Collegsis abiliry to provide this service. Requeste for transcripts or verifications may be obeained in the Office of Admissions. Transcripes from anocher institution are not arailable for copying.

The stadent's transeript may be withheld if 1) any library booka or other library materials are charged to the atudent and are unreturned, or 2) there are any unpaid foes or charges due to the Colloge. The trankript may be withheld until these obligations of the stadent to the College are discharged.

## Academic Honors

This policy is adopend for use in the Lor Angeles Community College District only. Other institutions may differ and atudents planning to transfer to another college should contact that institution tegarding is polics.

## Awards

Graduating utudents of outatanding personaliry, scholarhip, and leadership are recognired theough the yearly presentation of awards within the severnl departments of the College. Recipients of these awarls are determined through department procedures.

## President's Honor List

Seudents who have appeared on the Full-time or Part-time Deanh Honor Lite for three or more consecurive semerers will be placed on the Presidenth Honor List. A notation of this award will appear on the stadent's tranicript,

## Dean's Honor List

Each semester a list is peblished containing the names of students who have completed 12 or mose units of graded clases (credit/nocretit and incompleres are noe included) during the preceding semeter with a grade-point average of 3.5 or bettet. Part-time students may also receive recognition through the Part-time Dean's List, which honots madents who have completed a minimum of 12 graded units at Pierce and 6 to 11 units of graded course work in the semetter and have a GPA of 3.5 or bettex. For mote details abour the Part-time Dean's List, contact the Admissions and Records Office. Further recognition is afforded Dean's List students by means of a personal letter from the Vice President of Academic Affairs and a notation on the transcript.

## President's Award

A perpetual trophy and acholanhip have been donated by the Aspociated Serdent Organization to the College President so that one or two outstanding graduating srodents can be recognired. The student murt have maintained a 3.0 GPA for all college work, moccesfully participared in co-curricular activitien, demonstrated leadernhip, served both the Colloge and the community, and exhibited devirable personal qualifications.

## Academic Standards \& Credit Policies

## Credit by Examination

Some counses in the college catalog are digible for credin by ceamination.

## 1. Methods of obtaining credit by examination

2. Achievement of a scoee of 3 or higher on cerrain Adranced Placement Examinations adminittered by the College Entrance Examination Board.
b. Achieventent of a score of 500 or higher on one of the Colloge Leved Examination Program (CI.EP) general exams. Pierce Colloge does not grant credit for the subjoct area caims.
c. Credir by satiafactory completion of an examination administered by the colloge in licu of completion of a coune lised in the college catalog. This option is avaitiale for selected courser only. Contact the Admissioss Office for the current couns list and credit by exam petition. Petition requirements are 1) sumdent currendly regittered at Therce; 2) cumulative GPA of at leat 2.0, 3) has taken teas than 15 units credit by eam; 4) has completed at least 12 units within the Las Angeles Community College Districts 5) course is offered on credit by coum basis: 6) prerequintion (if any) for counc are complete; 7 ) has not enrolled in or completed a more advanced course in the same arex 8) cannot be cuirrently entolled in course or have already carned a grade in the counce.
d. Achievement of a score that qualifies for credir on an examination adminittered by other agencies approved by the college.
3. Determination of Eligibility to Take College Administered Examinations. Students who qualify:
a. Murt be currently registered in the collegs. in good standing, and with a minimum grade point average of 2.0 in any work attempted ar the college.
b. May petition for credit by camination if they are
i) eligible to take such counse for credit under eristing regulations.
ii) have not completed a counc or are not in the procen of taking a course which is more advanced than the counse for which credit is requested. This requiranent may be waived at the discretion of the appropriate administratot.
4. Maximum credit allowable for credit by examination

The maximum number of credis allowable for credir by examination for the Asrociate Degree shall be fifteen (15) units. Credit by examination transferred from other instinations is counted toward this maximum.

## 4. Limitations

Credits acquired by cxamination are not applicable to meeting mach unir load requirenents as Selective Service deferment, Veteran's or Social Security bencfits.
5. Recording of credit
2.1. If a student pases the ecamination, the course shall be posted on histher cummlative recoed indicating "Credit" in the "Giade" column.
2.2. The number of units of credit recooded for any couns may not esceed those listed in the college catalog.

## Acceptance Towards Residence

Units for which credit is given pursuant to the provision of this section shall not be counted in determining the 12 units of credit in residence fequirment.

## Recorting of Grade

Students who meceafully pase an approwed examination shall have the record of sach examination entered on their record as "CR" as provided by the District Grading Symbols and Definitions Molicy. The student's records shall also be annotared "Credit by Examination."

Credit For Advanced Placement

| TEs | AP | $\begin{aligned} & \text { equmalency } \\ & \text { unds } \end{aligned}$ |
| :---: | :---: | :---: |
| American History | History 11, 12 | 6 |
| Art Histary | Art 101, 102 | 6 |
| Studio Druwing | Art 201, 202 | 6 |
| Stadio General | Elective credit* | 5 |
| Biology | Biolopy 3 | 4 |
| Computar Science | Computer Science 19 | 3 |
| English Lang. \& Comp. | English 101, 102 | 8 |
| Comp. 8 Ut | Engliah 101, 102 | 5 |
| Economics | Economics 182 | 6 |
| European History | Elective Credit* | 6 |
| French Lanquage | French 1 | 5 |
| Litarature | Elective Credir* | 5 |
| German Language | Gorman 1 | 5 |
| Literature | Elective Credit* | 6 |
| Latirc Virgil | Elective Credir* | 6 |
| Catulus-Horace | Electiva Credir* | 6 |
| Mattr: Calculus AB | Math 281 |  |
| Calculus BC | Math 281, 262 | $10$ |
| Music: Listanlit. | Music 111, 112 | 8 |
| Theory | Eective Credit ${ }^{*}$ | 6 |
| Physics 8 | Physics 6, 7 | 6 |
| C. Mechanics | Plysies 37 | 5 |
| C. Elec. 8 Mag | Ptysics 38 | 5 |
| Spanish Language | Spanish 1 | 5 |
| Lteratiore | Bective Credir* | 6 |
| U.S. Government 8 Politics | Poltical Sclence 1 | 3 |

US. Government \& Political Science 2
Poldics-Comp.
*Sitifie itr (6) units deative crodit only-Not G.E. requirement
Minimum score needed for AP crelit is 3. Some institutions require higher seores for course credit. Students should check with counsiors and/or institution to which they plan to transfer.

## Academic Renewal

The following policy applies only to dasse taken ar Pierce College. Students may mbibit a petition to the Office of Admissions and Reconds so have grades of " $\mathrm{D}^{\prime}$ or "F", removed from their grade-poist-average under the foltowing conditions:

1. Seuilents must have achieved a grade-point-average of 2.5 in their most recent 15 semester units, of 2.0 in thir most recent 30 sementer units completed at any accredited college or univenity, and
2. At least two calendar yvars nust have dapsed from the time the enurse work to be removed wa completed.
If the above conditions ate met, academic renewal shall be granted, consisting of:
3. Eliminating from contideration in the cumulative grade-pointwerage up to 18 semester units of coune work, and
4. Annotating the student academic record indicating where counser have been removol by academic renewal action.
5. Granting of Academic Renewal does not mean the courne can be repeated beyond the maximam repearahility listed for the civise.
Academic renewal actions are irreversible.

## Course Repetition to Improve Substandard Grades

Stodenss may pertition for approval to tepeat up to a total of 15 units in which sulntandand grades (less than "C" 20) were awarded.

Studenes may repear the ame course only once for this purpose.
Upon completion of a course repection, students may petition to have the most recent grade earned computed in the cumulative grade-point-weruge, the substandand grade removed from the grade-point-2verage calculation and the stadent's acalemic recond so annotated.

No apecific course or categories of counes shall be exempt from conne repetition.
This policy is adopted for use in the Los Angeles Commanity Colloge District only, Other institutions may differ and srudents planning to transfer to another college shoeld contact that inatitution reganling iss policy.

## Campus Procedure

"Request for Review of Strodent Recood" forms are available at the Information Desk in the Adminitrration Building. This form should be filed to requent perminsion to repeat a course before enrolling in the course for a second time.

## Course Repetition: Special Circumstances

Repetition of coanes for which subutandand work has not been recoeded shall be permitted only upon astvance petition of the ztudent and with written permision of the College President or devignee bused on a finding that circumstances erivt which jusify such repetition. In such topetition under ipecial circumutances, the student's pernanent acelemic record shall be annotated in such a manner that all work remains leglble. Cirades awarded for repetition under specisl circumatances thatt not be counted in calculating a student's grale-point-average.

## Course Repetition and Activity Repetition

Certain counet in the Caralog may be repeated for additional unit credit. These counses, marked "RPT' in the Course Section of the Caralog, allow the student an expanded ehucational experience each time the student entolls in the course. Enrollment in these courses is limited in any similar activity to a maximum of three repeats for a total of four (4) enmollments, regardless of the repeatabiliny of individual counes. The activity limitation also applies so courses which are not repeatable in themselves but for which similar activities evis. For example, there are several similar counse titles in Art, Muric, Theater, and Physical Education which are conaidered to be the same activity. A student may enroll four times in courves which are considered to be the same activity, uch as rwice in Theater 279, Masical Theater (RPT 3), and twice in Theater 280, Matical Theater Workahop (RPT 3). Any combination may be used as long as 4 enrollments in one activiry is not exceeded.
This activity ensollment limitation begins with the Fall 1983 tetm. Excess enrollment will result in administrative drop. Consult a counselor for the latest restricted activity enrollment liut.

Note: Whenever the studeat's recond is reviewed for the purpose of determining his or her unit credits, all of the sudent's recond is reviewed, not jurt the counce work since the beginning of Fall 1983.

## Transfer Credit Policy

Transfer cendit for lower division couses raken at regionally accredited institutions of higher education in the United Seates is accepted towand Associate Degrees or Certificates. Sendents muat provide officiat tunacripts.
For additional information, contact the Graduation Office.

## Foreign Transcript Credit Policy

Seudents who have completed college level counes at schools outside the United Stares may petition for an unlimited number of lower division uniss of credit towand an Associate Degree or Certificate under the following conditions:

1. Seudenes must subenit a detailed evaluation from an appeoved evaluation service. Students are responable for the cont of this service.
2. The foreign university or colloge must have been approved by that country's Minitery of Elucation at the time the student attended.
3. No counes may be used to arisfy the Associate Degree's Reading and Written Expression or oral communication requiroment unless the course was taken in a country where English is the native language.
4. No course may be used to satinfy the Associate Degree's American Inititutions requirement.
5. In caser where equivalent coune credit is not granted, elective credit may be awarded.

For additional information, contact the Graduation Office.

## Credit for Courses Completed at Non-Accredited Institutions

Seudents transferring from non-accrofited instinutions may, after suecestul completion of 30 units with a "C or betser grade-pointaverage apply for up to 15 units of credit in courses which paralld the offerings of the Colloge-

The following exceptions may be made so this frgulation:

1. Credit for Graduates of Diploma Schools of Nursing.

The following amount of credit is authotived for graduates of Diploma Schools of Nuring who enter the Los Angedes Community Colleges:
21. Thirry (30) semester units of condit will be given to graduates of Diploma Schools of Nursing ander the following conditione;
2.1.1. The student proents a valid, current California centificare as a licensed regitered nusse to the deignated administrative officen
2.1.2. The student has cormpleted at least 12 units of credit as the Collige to which application is made.
2.2. The work of graduates of Diploma Schools of Nursing outride California will be recognired if the mudent has a valid, curnme California license. Crodit will he given even though the license was obrained on the bavis of reciprocity with another state tarher than by ecaminution.
2.3. Cindidater for the Assciate of Arts or Anociate of Science Degere ate exempt from Healch Education as a general education requirement. No other general efucation requirements will be walved.
24. Additional coarses in Nurring may be taken for credit only upon approwal of the Nursing Department.
25. The unancripe is not to reflect the major field nor should the diploma, where goven, indicate Nuning as a majot,
2. Credit for Millitary Service Training

Students who are currently seving in or huve served in the military service, may, after successfal completion of an lesit one couns with the Los Anpdes Community Colloges, request an evaluation of credit carned through military service training schools and/or military occupational specialties.
3. Credit for Law Finforcement Acadeny Training

Credit for basic recruit academy training instructional programs is Adminisuration of Justice or other ctiminal juntice occupations ahall be granted as followe
2.1. Credit will be given for uraining from institutions which mect the standands of training of the Californis Pleace Officers Standards and Training Commission.
2.2. A single block of credit will be given and identified as academy credit.
23. One (1) unit of credit may be granted for each 50 hours of training, not to esceed ten (10) semester units of their equivalent,
Credits gransed by an in intitution of higher education for basic mecruit acadeny training under the above provisions, shall not be identified as equivalent to any required coune in the major.

# Academic Probation \& Dismissal 

## Academic Standards for Probation

The following standands for academic and progreas probation shall be applied as required by regulations adopted by the Boand of Giovernors of the Califormia Communiry Collegea. Probation ahall be determined baved on student course work dating from Fill, 1981; coune work completed prior to Fall of 1981 is exdaded from probution calculations.

## Probation

A student shall be placed on protation if any one of the following
2.1. ACADEMIC PROBATION. The student has attempted a minimum of 12 semetter units of work and has a grade-point-wvcrage less than a " C " (2.0).
2.2. PROGRESS PROBATION. The student has enrolled in a total of at least 12 semexer units and the percentage of all units in which a student has enrolled and for which entries of "W" (Wirhdramal), T" (tncomplete), and "NC" ONo Credit) are reconded reaches or exceeds fiffy percent.
23. TRANSFER STUDENT: The student has met the conditions of a or $b$ at anodicr college within the Los Angeler Community College Diarrict.

## Units Artempted

"Units Attempeed," for purposes of determining probation status only, means all units of crodit in the current community colloge of attendance for which the student is enrolled.

## Removal from Probation

A student shall be temoval from probation upon meeting the criteria specified in this section.

## Aradewte Prokartion - A student on academic probarion for a grade point deficiency shall be renowed from probation when the suident's cumulative grade-paint-average is 2.0 or highet:

Progress Probation - A wudent on progies pohation becuse of an excess of aniss for which entries of No -Crodit (NC). Incomplete (1), and/or Withdrawal (W) are recorded ahall be removed from probation when the cumalative percentage of units in this catogory drups below fifty percent (50\%5).

## Academic Standards for Dismissal

A stodent thall be subject to disminsal and sebsequently be dismissed under the conditions set forth within this section. Dismixul shall be determined based on aradent contse work dating from Fall, 1981; counie work completed prior to Fall of 1981 is cocluded from disminal calculations.

## Academic Probation

A student who is on acadenic peotution shall be subject to dismisal If the atudent has carned a cumulative grade-point-average of less than 2.0 in all units attempted in each of 3 consecurive semeters.

A nudent who is on academic prolation and earns a wementer grade-point-dverage of 200 or better chall not be dimaised as long as this minimum semetter grade-point-average is maintained.

## Progress Probation

A sudent who is on progress peoborion shall be subject to diumisual if the cumulative pereentage of units in which the student has been esrollod for which entries of No-Credir (NC). Incomplete (1), and/or Withatrawal (W) are reconded is ar least 3 consecutive semesters reachor or aceeds fifify percent (50N6).

A suadent who is on progress protiotion shall not be dimmised after a semeser is which the percentage of units in which the stadent has been enrolled for which entries of "W" and "NC" ase recorded is less than fifty percent ( $50 \% \mathrm{~s}$ ).

## Appeal of Dismissal

A student who in subject to diumisal may appeal to the appropriate College Dean. Diumisal muy be postponed and the student continued oa prolation if the studear shown significant imptovement in academic achievement but has not been able to achieve to a leve that would meer the requirements for temoval from problation.

## Dismissal

A sudent who is subject to dismival, and who has not been continaed an probation throughout the appeal process, shall be notifird by the Callege President, or devignee, of dirmiesal which will tocome effective the semester following notification.
Dismisual from any one colloge in the District shall disqualify a suadent from admission to any other colloge ia the District.

## Readmission After Dismissal

A student who has been dismised may request teinutatement afier 2 semesters have dapsed. The student duall sabmit a written petition requeting reatmimion to the Colloge in compliance with Colloge procedures, Readmimion may be granted, denied, of poimponed subject to fulfillment of conditions perscribed by the College

## Student Services \& Academic Resources

## Student Services

The primary purpose of the office of Student Services is to protect the right of every sudent to receive a higher education and to ensure that this right will not be infringed upon arbitrarily, capriciously, or in a discriminatiry mannec, or without doe process of law. The Dean of Sendent Services acts as an advocate for the studeass. The secvond responsibility of the office is to enforce the Code of Seudent Conduct for the ufety and protection of the college communiry and the preservation of academic integrity.
Student Services are devigned to asist students in accomplithing their edocational objectives and to provide opportunities for involvement in a number of co-curricular activities. Overall supervision is the mpponibility of the Dean of Student Services.

## Standards of Student Conduct

A sudent entolling in one of the Les Angeles Communiry Colloges may rightfully expect that the faculty and administraton of the Calleges will maintain an environment in which there is froodom to teara. This tequites that there be appropriate conditions and opportunities in the classfoom and on the campus. As member of the colloge community, suidents should be encouragod to develop the capuciry for critical judgrient, to engrge in the surained and independent search for truth, and to exercise their rightu to free inquiry and free speoch in a roponsible, non-violent mannet. In fartherance of the studenta' intersst in free inquiry and the search for truch, it is also important that serdents be able to hear the views of non-madentr and engige in the free cachange of ldeas with nomsudents.

All penons shall respect and obey civil and criminal law, and shall be mibject to legal penaltics for violation of lyws of the cit; couney, wate and nution. Att persons stult respect and obey the niles, togulations, and policies of the Lon Angeler Communiry College District. To thit end, all atudents will be asked to sign a statement that they have teceived the Standards of Conduct and the diveiplinary procedures elating to sudents adopted by the Boand of Truseecs. All visiton miling use of the facilities or grounds of any colloge of the District will be asked to sign a statement that they have rectived the Sandards of Condact and the ruler relating to campus visiton sopred by the Boant of Trustecs. Sipruarure will not be a pretequisite to activities on campua. A recond will be kepe of all persons who use the facilities or grounds of the collegs.

Condact in all of the Ier Angeles Community Collepos mast conform to District and college rules and regulations. Violations of mach miles and regulations, may reulr in diviplinary action depending on the individual's status as student, faculy, staff or whithe,

Violations of such rules and tegulations include but are not limited to the folloming:

## Board Rule 9803.10

Wiltful Disobedience. Willful divobedience to directions of College officials acting in the performance of their dutie.

## Board Rule 9803.11

Violation of Colloge Rules and Regulations. Violation of Callege rales and regulations incloding those concerning mudent organirations, the use of College facilities, or the time. place, and manner of public expression or distribution of materials.

## Board Rule 9803.12

Dishonesty. Dishonerry, such as cheating, of knowingly furnishing false information to the Colloger.

## Board Rule 9803.13

Unauthorized entry. Unauthorized enury to or use of the College facilities.

## Beard Rule 9803.14

College Documents. Forgery, alteration, or mivuse of Collige documents, reoords, or identification.

## Board Rule 9803.15

Disruption of Classes or collepe activities. Obstruction or disruption of clases, adminisration, disciptinary procedures, or authorised College activities.

## Board Rule 9803.16

Theft of or Damage of Property. Thefr of or damage to property belonging to the Collegs, a member of the College Communiry, of a campus visitos.

## Board Rule 9803.17

Interference with peace of colloge. The malicious or willful disturbance of the pace or quiet of any of the Los Angeles Community Collego by loud or unusual noise, of any threat, chullenge to fight, fight, of vidation of any mules of conduct as set forth in this Article. Any person whose conduct violater this section shall be considered to have interfered with the peacefist conduct of the activities of the colligge where mach acss are commitred.

## Board Rule 9803.18

Assault or battery. Assault or buttery, abuse, or any thrcat of force or violence directed toward any member of the Colloge Community or campus vistor engaged in authorized acivitics.

## Board Rule 9803.19

Alcohol and Drugs. Any possession of controlled subatances which would constitute a violation of Healch and Safery Code section 11350 or Musines and Proffaions Code section 4230 , any use of controlled subitances the possesion of which are prohibited by the same, of any possession or use of alcoholic beverages while on any property ewned or used by the Diirrict or colleges of the District or while participating in any District or college-spontored function or fied trip.
"Controlled substance", ar tued in this section, indude bat are not limited to the following drugs and narcotios:
a) opiures, opium and opium derivatives
b) mencaline
c) hallucinogenic substances
d) peyote
e) marijauna
A) stimalants and depetsants
g) coaine

## Board Rule 9803.20

Lethal Weapon. Powessinn, while on a colloge campus of at a colloge-aponsored function, of any object that might be used as a lethal weapon is foebidden to all penons excye sworn peace offiors, police officers and other governmental amployeer charged with policing rosponsiblities.

## Board Rule 9803.21

Discriminatory Behavior. Bchavior while on a college campeas or at a collegeresponsored function, inconsistont with the Districr's non-discriminanion policy, which reypires that all programs and activities of the Ios Angola Community Cnllige Dierrict be operated in a mannet which is free of discrimination on the bain of race onloe, nuional origin, ancentry, edigion. creed, sex, prognancy, marital satus, secual ofirstation, aye. handicap of vererans status.

## Board Rule 9803.22

Unlawfut Assembly. Any asemblage of two or more perisens to 1) do an unlawfil act, or 2) do a lawful act in a viclent, boisterces or tumulrucus manact.

## Board Rule 9803.23

Conspiring to Perform Illogal Acts. Any agecment betwen two of more penoss to perform illegal acts.

## Board Rule 9803.24

Threataning Behavioc. A direcr or implied capression of intent to inflict plyyical or mental/emotional harm and/or acrivoss, much as salking, which a reasonable person would perceive as a theseat to persoral safery of property. Threass may include vertal statement, writien statements, telephone threats of phynical Ahereas.

## Board Rule 9803.25

Disorderly Conduct. Condact which may be comaidered disorderly inctader lewd or indecent antire or behavior that dismipes clases or college activitios becach of the parace of the colloge aiding, or inciting anotber person to breach the pesce of colloge premiles of fuactions.

Board Rule 9803.26

1. Theff or Abuse of Computer Resources. Theff or abwes of computer resourcos including bue nos limited toc
l. Unauthorized entry into a file to use, mad, of changer the contents, or for any other parpors.
c. Unauthorited transfer of a file-
d. Unauthorised use of another individally identification and pmanord.
e. Use of computing faclities to interfere with the work of a mudent faculty member or college official, or to alter कीtloge or thutar rectits.
f. Use of inticensed sofiware.
e. Unauthorined copying of software.

## Board Rule 9804

Interference with Classes. Bery person who, by physical fosce, willfully ohstructs, or attempes to obstrict, any suadent of tescher soding to attenl or inmenct daver at any of the campuses or ficilities owned, controlled or administered by the Board of Thustes of the Los Angeres Comanuniry Colloge Districs, is punidhable by a fine nor caceeding five handeed doftars ( $\$ 500$ ) or inpplionment in a county jail not excoding one ycar, or by both such fine and imprisonment. As used in this suction. "physical force" includes, but is not limited to, use of one's person, individeally or in concert with othens, to impode access to or mavement within or otherwise to oburnect the students or teachen of the clases to which the premises are devoted.

## Beard Rule 9805

Interference with Performance of Duties hy Emplopees. Every person whe atempts to casse, or canses, any officer or employee of any of the Los Angdes Communiry Collegos os aay public offica or emplover to do or refrain from doing, any act in the porformance of his/her duties, by means of a threat to inflict any injury upon any penon or property, is guilty of a public pffense.

## Beard Rule 9805.10

Assault or Abuse of Instructor. Ever parent, guardian, or ocher perion whe asuuls of abuess any instructor employed by the Disurict in the pecsence or hearing of a communiry collige student or in the presence of other community colloge pernoand of stulents and at a place which is on District peemises or public sidewalles, meets, or other public ways adjicens to achool permises, of at some other place where the inurnctor is required to be in connection with assigned college activities is guilyy of a midemeanos.

## Smoking Policy

Smoking is not permitred in any dassoom or other enclosed facility-

## Drug-Free Campus

Los Angeles Fierce Colligge adheres tis, usporsh, and is in full compliance with requirments thas mainain our college as a drug: free instutution of higher education.

## Standards of Conduct

On Srptember 5, 1990, the Board of Trustees adopted the following standards of condoce

Studenn and emplojees are prohibited from unlawfully posessing. using or distributing illicit drugs and alcohol on district permises, in diarior velides, or as part of any activity of the Los Angeles Cammuniry Colloge Diutrict.

Additionally, on April 20, 1989, the Districr Boand of Trustecs adopted Pale 9803.19 , which prohibits:

## Alcohol and Drugs

Any poseruion of controlied substances which woould constinute a violation of Healch and Safery Code section 11350 or Business and Trofcuiona Code roction 4230 , any use of conerolted mbitances, the powesion of which ane pechibiled by the sume or any posescios of
use of alcobolic beverages while on any property owned or used by the District or colleges of the District or while participating in any Ditrict or college-sponsored function or field trip. "Controlled substances, "as used in this section. include but ate not limited to the following drugr and narcotica:
2 opiates, opium and opium derivatives
b. mescaline
c. hallucinogenic substances
d. pegote
e. marijuana
f. stimulants and deperesants
g. cocaine

The board's policy on the Drug-Free Workplace, adopted on March
22, 1989 textates these prohishitions.

## Student Academic Integrity Policy Statement

The faculty and administration of Los Angeles Plerce College are committed to the belief that honesty and integrity are integral components of the academic process. The College expects students to be honest and ethical at all times in their pursuit of academic goals. Students who violate the code of academic conduct by which the College maintains its academic integrity will be dealt with in a manner reflecting the seriousness of these violations.
t. Violations of academic honesty and integrity occur when a student participates in any act in which he/she uses deception or fraud while performing an academic activity. Violations include, but are not limited to, the following:

- Using study aids such as calculators, tape recorders or notes, when not authorlzed by the instructor.
- Cheating on examinations, assignments or experiments fallowing another student to copy one's answers or copying the answers of other atudents; exchanging information by any means, including verbal exchanges, sign language, hand signals, secret codes, passed notes, creation of a distraction for the purpose of cheating: changing answers on a previously scored test. assignment or experiment; Inventing information and/or data.)
- Allowing another student to assume one's identity in order to fulfill an assignment or take a test.
- Submitting for a grade the words, ideas, and/or written work fincluding laboratory notes and drawings) of another person without giving due credit to that person. This includes purchased papers or papers written by other students.
- Falsifying or attempting to falsify attendance records and/or grade rosters.
- Conspiring with other students to commit any of the above behaviors.
II. Disciplinary actions against a student Who commits any offense against academic honesty and integrity may include:
- An "F" or a "0" on the examination or assignment.
- Suspension from the class.
- An "F" grade in the course for voluntary withdrawal if the incident occurs prior to the 14th week of the semester.
- A record of the student's violation placed in the student's disciplinary file.
- Restitution charges for damaged or misappropristed property.
- Disciplinary probation from college activities or services.
- Suspension from the College.
- Expulsion from the College.
III. Studeat's Right to Appeal

Students have the right to appeal disciplinary actions through the Board of Trustees Discipline procedures. A grade panalty may be contested through the stadent grievance procedures.
IV. Reporting a Violation When an alleged incident of academic diahonesty occurs, it is recommended that a faculty member take the following stept to report the incident:
a) Inform the student and the department chair of the nature of the alloged violation and the Impending course of action.
b) Complete the Academic Dishonesty Report Form and submit it along with any related evidence, to the Dean of Student Services. The student should also receive a copy of the form from the instructor within ten (10) working days of the incident.
c) The Dean of Student Services will forward information about the incident to the Department Chair and the appropriate Dean of Academic Affairs.
d) The Dean of Student Services will investigate the allegations and recommend any appropriste disciplinary actions, beyond actions taken by the faculty members specific to course grading
V. Faculty Responsibilities

In order to maintain an environment free of academic dishonesty, the following recommendations are made to the faculty regarding their responsibility to uphold academic intogrity:
Make avery attempt to conduct their classroom in a manner which encourages honorable behavior and learning to ensure student success and discourage academic dishonesty.
Inform students of the course requirements, grading procedures and expectations of responsible academic conduct.
Inform students of the College policy on Academic Integrity and the potential consequences for violations of this policy.
Inform students of their right to due process should they wish to contest the cheating allegation.

## Legal Sanctions

Fooleral lows regarding alcohol and illicit drage allow for fines and/or imprisoament. Other legal problems indude the loes of driver's Ficene and limitations of career choicas.

## Health Risks

Healh rids awociated wish she abuse of controlled salneances include malnaurition, damage to various organs, hangovers, blackouts, general fatigue, impaired leanning, dependency, disability. and death. Both drags and aloohol may be damaging to the development of an unboen fewus,

## Other Risks

Penonal problens inclusle diminished seff-eteem, depression. alienation from rallig, and thoughes of suicide Social problems include loss of friends, aculemic standing, and co- and earn-curricular oppormunitios alienation from and abuse of fumily members, and chronic conflict with authority. Bconomic problems include los of joh, firuncial ail cligiolity, homes, savings, and other avets,

## Counseling, Treatment and Rehabilitation

Sndents thould consact the Soudent Healih Censer or the campus Counseling Office foe assisance and referrals employes shoald contact the Len Angele Community College District Employe Assinuance Program.

## Disciplinary Action

Violation of Board fule 9803.19 shall result in student discipline, imposed in accordance with the Sondent Discipline Procedures as stated in Board Rule 91101. Discipline opeions include warning, reprimand, restitution, disciplinary prohation, removal by instructos, immediate supension, muspension, mupension zubject to reconsideration, saspension of financial aid, eqpulsion. Furthermore, inntinutional policies and practices may impose disciplinary sanctions on students and employeer consistent with local, state, and foderal Law, up to and including expulsion, termination of empleyment, and referml for prosecurion for violations of the standasd of coseduct.
The Los Angdes Community College District is commitued to drugand alcohol-free campuscr, and we alk you to share in this commitment and dedication.

## Student Right to Know

Las Angela Fietce College in compliance with the Federal Students Righr to Know and Campus Sectriny Act of 1990 provides campus crise itatistios in the collicye idhedule of classes.

## Family Education Rights and Privacy Act

See Student Reconds and Directory Information.

## Student Records and Directory

The Les Angoles Commaniry Colloge Distric, in compliance with Federal and State low, hat established policies and procedares governing arudent reconds and the control of personally identifiable information. The Los Angeles Community College District recognines thar student reconds are a confidential matter berween the individual student and the Colloge. At the same time the District has a repponabillity to fulfill public information needs (i.e., information aboat students participaring in athletics, announcement of scholarships and awands, etc.). To meet this reponsibility the District may relcase Directory Informarion unless the andeat states in writing that he or whe does not want it released. The responsiblity for earrying out these provisions is charged to the Colloge Records Officer, designated by the chief administrative officer on each campus. The Recorls Officer may be contacted via the Office of Admissions. Copies of Federal and State laws and District policies and procedures are maintained by the Records Officer and are svailable for inspection and inquiry.

All mudent records maintained by the various offices and departmens of the Colloge, other than those specifically exemped by law, are open to inspection by the student concerned. The accuracy and appropriatenes of the rocorts may be challenged in writing to the Records Offices. A stadent has the right to receive a copy of his or her tecond, at a cont not to ewceed the cost of teproduction. (Requests for transcripts should be made directly to the Office of Admisiona).

No student recoedh, other than Directory Information, will be released without the written consent of the student concerned eactpt as authorined by law. A log of pernons and organizations requesting or recciving stadent record information is mainzained by the Records Officer. The log is open to inspection only to the student and the communiry college official or his or her delignee reiponsible for the maintenance of stadent records.
Difectory Information includes the student's name, city of residence, participation is officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, and the moat recent previous educational agency or instirution attended by the student. Directory Information about any suadent currently amending the College may be rdeased or withheld at the discretion of the Reconds Officer.
No Directory Information will be relesed regarding any student who has notified the Records Officer in writing that such information shall not be roleased.

All inquiries regarding student recorls, Directory Information, and policies for reconds access, release, and challenge should be directed to the Recoerds Officer via the Office of Admissions.

Srudents have the right to file a complaint with the United Seates Department of Education concerning alloged violations of Federal laws goweming stadent records.

## Student Discipline Procedures

Community college districes are required by law to adope mandards of sudent conduct along with applicable penalties for violation (Education Code Section 66300). The Los Angelar Community Colloge District has complied with this requirement by adopting Boand Rule 9803, Seandards of Seudent Conduct. The parpose of this Board Rale is to provide uniform procedures to asuure due process when a student is charged with a violation of these standands. All proceedinge held in accordance with these peocedures shall relate specifically to an alleged violation of the cetabliahed Seandards of Seadent Conduct.

These provisions do not apply to grievance procedures, student organization councils and courts, or residence determination and other academic and legal requirements for admiation and retention. Disciplinary measures may be taken by the Collige independently of any charges filed through civil or criminal aurhocities, or both.

Copias of the Student Discipline Procedures are aviilable in the Student Services Office in the Campus Centex.

## Student Grievance Procedures

The Srudent Grievance Procedure is to provide a peompt and equitable moant for resolving atudent(s) gievances. The grievance procedure may te initiated by a student or group of suddents who reasonably believe dur he/hhe/ther have been mbject to unjust action or denied righis that adversely affect hiv/hertheir status, rightes, or priviloger as a mudens. The grievance procedure is detailed in District Administrative Regutation E-55 which is avalable in the Student Services Office in be Campus Center to any student or applicant to the colloge.

This grievance procedure does not apply to the challenge procens for prerrquisites, corequisites, advisories and limitations on ensollment; lifged violations of sexual harasment; actions dealing with student divcipliner alleged divcrimination on the bais of ethnic group Identification, religion, age, sex, coloc, senual orientation, physical or mental disability; or an appeal for residency decivion; or to eligitility, diequalification or teinstatement of finuncial aid.
In adition, section 76224 of the Calliformin Education Code provides
*Wen grades are given for any coune of instruction taught in a conemunity collige dirtrict, the grade given to each student shall be the grade determined by the instructor of the course and the dacrmination of the student's grade by the instructor, in the absence of miseake, fraud, bad faith, or incompetency, shall be final."
The following steps should be raken to begin the grievance procedure:

## Stop I Informal Resolution

Al parties involved in a potential grievance ahould be encouraged to seck an informal remedy. The student shall make a reasomable effort to revolve the matter on an informal basis by

1. meeting with the person with whom the smadent has a grievance.
2 meating with that person's immediate supervisor.
2. meeting with the College administrator of the area.
3. meating with the College Ombudyperson to explore student rights and reaponsibilities, receive assistance with an informal resolution, and submit a written Statement of Grievance.

## Step II Formal Resolution

Students unable to resolve their grievance through the informal process may file a "Formal Grievance Hearing Request Form" with the College Ombuduperson. The Ombudspernon will provide urudents with informarion about the formal grievance hearing proces and their rights and roponsibilities in this proces.
Seudents pursuing a formal grievance have the right to be represented by a Scudent Adverate who will anist atudents in the formal grievance process.

Additional information and antistance with the Sendent Grievance Procedare may be obeained from the Scudent Servicer Office in the Campur Center.

## Ombudsperson

Puruant to the Student Grievance Procedure, the College
Ombudeperson has been appointed by the College President to auist the student in obtaining informal resolution of a grievance.

## Financial Aid

## Goal

The purpose of financial aid in to provide access to post-secondary education for those who otherwise would be anable to afford the cost of education. Through grants, parr-time employment, scholarhipu, and loans, needy mudents are provided monetary astistance to meet the hasic cost of educational expenses.

## What is Financial Aid?

Financial aid is monies made available by federal and trate governments and private sources in the form of grants, employment, scholarships, and loans. These monies are available to muke it possible for medentr to continue their cducation beyond high school even if they and their family cannot meet the full costs of the possecondary school dhey choose to attend. The basis for such programs is the belief that parents have the primary responsibility of assisting their dependenes to meet educational costs and that financial aid it available only to fill the gap between a family's contribution and the sudent's yearly academic expenves.

## How To Apply

A student must complete a Free Application for Foderal Srudent Aid (FAFSA).
Applicarions are mailable in the Financial Aid Office at the College.

## Who Can Apply?

To be considered for financial aid, a student must meet the following minimum requirements

1. Students applying for financial aid must have a high school diploms, or have proof of pauing a high school equivalency tes. Students who do not have a high school diploma must either obtain a General Equivalency Diploms, of a Certificate of California Proficiency, or must take an independendy adeninistered test. Tests are administered in the Assexment Center. An appointment to take the test can be made by calling (818) $719-6499$. Srudenas must pass all segments of the test to qualify for financial aid. Students who have succeufully
completed a two-year program (minimum 48 units) that is accepable for full credit towand a bachelor's degree have the mocognited equivalent of a high school diplema.
2. Bea U.S. citiuen or an cligille non-citisen. An clipible noocitisen is a U.S.permanent resident who has an I-151, I-94, or I-S51 (Alien Regitration Rectipe document) from the Immi/pation and Nataralisation Service verifying that their say in the USS. is for other than a temporary parpose, of an I-688 cand for amnery. (T-688A cands are indighble for Title IV aid, bat are eligible for state aid.)
3. Show that they have financial need.
4. Be making satisfactory academic progres in a megular course of study.
5. Must not be in default on a Perkins L nan (formerly National Direct Student Lean), Seafford Direct Laan (formerly Gauranteed Sendent Loan), or Sapplemental Seudent Lnans (515) at any schoot the sudent har attended.
6. Mur not owe a refund on a Federal Pell Grant, and Federal Supplemental Educational Oppornuniry Grant (SEOG) or other Titfe IV programs.
7. Be registered wirh the Selective Service if requited to do sa.

## When To Apply

Beginaing en January 1 preceding the school year in which the stadent enroll. Examplet Beginning Janaury 1, 1997, for the envollment period betwoen July 1, 1997 and June 30, 1998.
FNANCLL AD DEADUE DATES FOR THE YBOM SA SCRODL YEAR
Foderal Financtal Aid Deadline May 22, 1998
Sate CAL. Girant Dradline
Manch 2, 1997

## Determining Financial Need

The number and amoent of financial awards and payments ane mibject to availability of instinutional, federal, and state aid funds. The type of aid and amount recrived will be determined by the Financial Add Office. Financial aild awandr are based on demonstrated financial need which is the difference between allowable educational expenses and the total of the parene' expected contributions, and/or the student's own reoverces. Resources may inchude, bat are not timired to, employment carnings, vercran's bendfits, Soclal Security bendits, or parents' contribarion. Resources are then measured againt the instinational arudent expense badger to determine logitimate financial need. Resources are determined from the financiat aid application nubnitted by the wadene.

## Financial Aid Programs

## GRANTS

## Fiederal Pell Grant

The Federal Pell Grant is a federally funded program. To be eligible, an applicant must be an undergraduate student and demonstrate financial need. Grants range from $\$ 400$ to $\$ 2700$ per academic year for Los Angeles Community Colloge District sudents. The amount of the awand, as determined by the Fill Grant Program, is in most cones based on prior calendar year income and asect information peovided is the finuncial aid application.

## Federal Supplemental Educational Opportunity Grant (SEOG)

The FSEOG program is a federal undergraduate program devigned to supplement other sources of financial aid for students with exceptional need. To be eligible, an applicant must be enrolled in at least 6 enits. FSEOG awards range upwand from $\$ 100$ to $\$ 400$ per year. FSEOG is available for as long as it takes to complete the fiest undergraduate degree within the time frame coinciding with the Financial Ald Sarifactory Academic Progress Standards, When students apply for financial aid, they will automatically be conalderod for this program based oe eligibility requirements and packaging policies.

## Board of Governor's Grant (BOGW)

The California Communiry Colleges offers a Boand of Govemon Eneollment Fee Waiver (BOGW) to help low income stadents with enrollment fees, Stadenss must meet the California residency requirements as determined by the Admision and Recondi Office. The BOGW is a waiver program and does not require repayment, BOGW applicants do not have to be cenrolled in a spocific number of courses and it waives the entollment fees for the academic year and summer sestions. Please see "Enrollment Fee Assistance" for further information.

## State Government Grants

The Scate of California, through the Califormia Snadent Aid Commision, sponsons grant programs for undergraduare stadents. To qualify for any of the sume-funded grants, a student must be a California resident and be artending for plan to amtend) an digible school or college in Californis. To apply for these grants, a amdent murt complece a Free Application for Federal Sendent Aid (EAFSA) by March 2 prior to the academic year in which the strudent intends to caroll.

## Cal Grants

A smdent can receive only one Cal Grant, elther Cal Grant B, or C

- Cal Grant B

This grant provides a living allowance for entering colloge freshman who come from low income families. Because this grant is intended for students coming out of high school, CAL. GRANT B awards are avalthble only for stadents who have completed no more than one semester of full-time college work ( 16 semerter unitr or 24 quarter unitr). At a community colloge grants can range from $\$ 500$ to $\$ 1410$ per academic year. Studens murt be enmolled in at leart 6 units to be digible.

- Cal Grant C

This grant is intended for students who decire to train for specific occupations, vocations or technical careers, but who do not have the finuncial resources to enter training programs because they are from low to middle income farmilie:

Grants are limited to $\$ 530$ at community colleges for programs ranging in length from four months to two years. Students must be enrolled in at leat 6 units.

## Bureau of Indian Affairs (BIA) Grants

BIA Granss provide money to help defray the costr of education for students of American Indian beritage. Srudents may apply if theys

1. are at least onequarter American Indian, Eikimo, or Aleut, at cervified by the B1A and/or tribal group services by the BLA:
2. have financial aid eligiblity and scholatic ability:
3. are wooking towand an undergraduate or gradeate degzoes:
4. have completed all of the requirensents.

Ameness of the grants. vary acconding to individual agencia of the B1A. The B1A Grant is advantagrous because, unlike ofber grants, it may be used to replace the foan or wokk porting of the financial aid puckage.

Applications are available throsugh the U.S. Department of Interiot, Burcar of Indian Affairs, Education Branch, 2800 Cotrage Arenuc, Sucramento, CA, 95813.

## EMPLOYMENT

## Federal Work Study Program (FWS)

The FWF program is a Federal program which enable a stadent to eam part of his or her financial aid zwand through on/off campus ouployment. The work and pay rate varies with the student's coanse of imity and aperience.

## LOANS (Monies which must be repaid)

## Federal Perkins Loan

(Firmerly Narinal Dienct Sfudent Lan (NDSU)
This losn is a low interest foan ( $5 \%$ ) repayment program to help urodens with esceptional finsacial need meet their educational tpenter. To be eligible, an appticant mist be entoled in at leas 6 units. A Perkins Loan is also available so studenss who hold a Buhdor's Degree as long as they haven't previously borrowed the pigran maximum.
Rloppment of she Loan: Repayment status begins nine monehs after the borrower graduates, withdraws, or drops below six units.

## Federal Direct Student Loans

To apply, a mudent musu firs complat a Fiee Application for Federal Sedent Aid (FAFSA) to determine eligibility for a Plll Grant.
Stedents mest be enrolled in at least 6 units for the entire lean period. Repayment bogins six months after a undent ceaso boing a iliftime undent, withdrawn, or graduates from ichool.
Inan amocints vary depending en whether a student is a dependent er independent student and a fint yrat stadent (completed les than 31 semever units at the beginning of the loan preiod) or a second yeir utudent (completed 31 or more units at the beginning of the han period).
There are two types of loans available under each loan programe:
(1) Subsidized loans - the fiederal government pays the interes on the loan unsil susdents bogin repaymenr and during authorized perieds of deferment thenrafter:
12) Unsubsiditised loans - studens will be charged interest from the time the loan ir disbaned. Studenss can choose to pay the interest or allow it to accumulate. Sudents can borrow both a subsidiaed and unsubsidired loan in the same academic year depending upon eligibitity.
Usider the Federal Direct Loan Program the federal government atikn louns directly to studenos through the school the student ancends.

> Sowdents showld be anarre the school ahoy are athending oan mfuse to certify a loan applicatian ar can certify a loan for an anmanat les than the stwident avowild atherwibe be eligible for if the sebool decoments the reason for its arrian and explains the reasous to the atudewt in uriting. The selhool's deciniow it FINAL and connot be apponaled to the U.S. Departiment of Edncation.

## Refer to the U.S. Department of Education Student Guide for

 1997-98, available in the College Financial Aid Office, for ipecific annual and aperegate loan amounts.
## Standards for Satisfactory Academic Progress for Financial Aid Programs

## General Information

In accondance with the Hisher Education Act of 1965, as amended, the Los Angeles Communiry Collige District (hercinafter referred to as LACCD) established the following Sandards of Academic Progress. These standands apply to all strudents who apply for and rocive fiancial alid from the programs liused below.

## - Federal Pell Grant

- Federal Supplemental Flucational Opportunity Grant (FSEOG)
- Federal Work Srudy (FWS)
- Federal Perkins Loan
- Federal Family Educarion Loan (FFEI)
- Federal Ditect Student Loan (FDSU)
- Cal Grant B and C

Profesional Judgement may be exrrised in applying these standards in accoedance with Section 479A of the Higher Education Act of 1965 As Amended Through June 1994.
Satiffactory Academic Progren Seandands are rewonable if they are the same or stricter than the institution' mandards for a sudent enrolled in the same educational program who is not recelving asristance under Title IV Federal Financial Aid Programas.
Previous coursework earned ar any celloge within the LACCD will be reviewed for compliance with the standards put forth in this policy:

## Anademic Renewal and Ropetitions.

For policies and procedures relatal to Satiffactory Academic Progress such as Acadernic Renewal and Course Repetitions, eve., please rofer to the sthool Acailemic Policy Section of the Colloge Catalog.

## ELigibiliny

1. After eligibility is established, mbisequent satisfactory academic progress review will consider academic performance at all colloger throughour the LACCD.
2. For students aidel under a consortium agreement with colleger outside the LAOCD, consortium clases will be included daring usinfactory progress teview by the home school (the college that processer the amadontis aid).

## General Requirements

Sendents receiving financial aid mux be entolled in an digible peogram to recelve financial aid. An digible program is defined as

1. An educational program that leads to an associate, bachelor's, profestional, or gradaate degree, or
2. An educational program which ir at least a rwo-academic-year program that is acceptable for full credit toward a bachelor's degree, or
3. An educational program which is at least a one-academicyear training program that leads to a cervificate, degree, of oeher recognised educational credential and that preparts a stadent fir gainful employment in a recognired occupation.

## Satisfactory Academic Progress Standards

Maintenance of a 2.0 semetter and cumulative GPA.
Completion of fewer than 72 unitr at the beginning of the academic year. Provided all other satisfictory academic progress standards are met, Financial Aid Offices may increase the cumulative unit completion standard beyond the 72 unit maximam for stradents sccrpted into the nursing program without requiring such stadents to go through the appeal procens.

Einries recorded as Incomplete (1), No Credir (NCR), and/or Withdrawl (W), must be less than $50 \%$ of unitr attempeed for the previous semester and, cumulativily, completion of the number of units for which the student was paid, minus a 3-unit leeway (see Determining Enrollment Sarur below).

## Financial Aid Probation And Disqualification

Academic progres for financial aid arudenss will be determined prior to the fint disbarsement of aid for each academic semeter.

## 1. Probation

a) Sesdenss whose academic progress is substandarl in their mont recent prior semester will be placed on probation.
b) A student who failed to meet the standards at any college in the LACCD and has been placed on prohation, is on probation at all colleges within the LACCD.
c) Sexdents with $50 \%$ or more units of Non Credits, Withdrawalk, or Incompletes in the mon recent semeter will be placed on probation.
d) Srudents on probarion whe have made measurable improvement, but who have failed to achieve the minimum standards of satifictory progreas, may be granted aidditional aided probationary semesters.

## 2. Disqualification

a) Applicants with two or more consecutive sematen of mulstandard progress are subject to dinqualification.
b) Financial aid recipients who do not achieve a cumularive GPA of 2.0 or better by the end of the second acalemic year muart be disqualified. The second academic year is defined as a period of time and not the level of enrollment.
c) Studens who are disqualified from financial aid will be notified by mail of the reason(s) for disqualification and procedure for appeal.
d) Students can make up unit deficiencies in the Spring semester or during Summer session.
i) That will be done utiliting professional jodgrment on a case-by-cane hain.?
ii) Studenes will be notified by mail of their probationary status.
${ }^{2}$ Serion 479A of abe Highor Bhucarien Aor of 1965 As Amended Through fwne 1994.
e) If the cumulative GPA is below the 2.0 minimum, it must be increased to a 2.0 GPA by the conclusion of the Spring semester or Summer sextion to receive aid in a subsequent award year
f) If the student has not achieved the minimums requirements upon completion of the Summer sention, financial aid will be dicontinned.

## Determining Enrollment Status For Financial Aid Recipients

In determining whether or not a stadent is making satisfactory progress, the Hedent's enrollment status is defined as follows

1. If the student receives a full-time Pell Frant or Cal Grant, the student's enrollment status ir considered full-time ( 12 or more units for that semester).
2. If the student receives a $3 / 4$ time Pell Grant or Cal Geant, the student's enrollment status is considered $3 / 4$ time ( 9 to $111 / 2$ units for that semeste).
3. If a student receives a $1 / 2$ time Pell Grant or Cal grant, the student's enrollment ratus is considered $1 / 2$ time ( 6 to $81 / 2$ units for that semester).
4. If a student only receives a loan, the student must maintain a minimum enmillment of $1 / 2$ time ( 6 units per semeter) for the entire loan period.
5. If the student receives only Federal Work Seudy, the student mase maintain cnrollment in a minimum of oee unit per semester while employed.

By the end of each acodemic yeas, financial aid atudents mus complete the units for which they received aid minus a 3 -unit leewar.

1. Full-cime students, who are reaponsible for 24 units per academic year must complete at least 21 units per year.
2. There-quarter time students, who are responaible for 18 units per academic year, must complete at least 15 units per yeas.
3. Half-time students, who are responsible for 12 units per academic yrar, mur complete at least 9 units per year.
4. Leus than $1 / 2$ time stadents are responsible for completion of all units enrolled in per semester when the first disbursement was made. The 3 -unit leeway does mot apply to these stadents.

In the determination of ensolliment stans, it is permissible for a student to count unitr being taken at another college.

1. Studenta who are taking dasser at more than one college within the LACCD, are amromarically convidered to be taking clases under Boand Rule 88700.
2. Srudents who are taking classe at a college within the LACCD and who are also enrolled at a college outaide of the District muit repucir a written consortium agreement be made between the schools with one school designated as the primary school (the one from which the atudent receives financial aid) and the other school as the secondary school.
3. If the student ir enrolled at a LACCD member college and a four (4) year school, the four year school must be the primary school.

## Maximum Time Length

Students attending for the purpose of obeaining an Associate of Arts Deqree (AA), an Associate of acience Degree (AS), a certificate, or completion of requirments for transfer to a four year colliges, are allowed 72 units in which to complete their objective.

1. Autending fill time ( 12 units or more), a smadent is expected to complete his/her objective in three year.
2. Atending part time (Jess than 12 unis), a student is expected to complete his/her objective in six yean.
3. Exceptions will be made only when the requirements of a stuilents objective cause the madent to exceed the manlmum time limit.

## Short Length Certificate Programs

1. Some certificate objectives at the Los Angeles Community Colleges may be completed in leas time than that enquired for the Associate of Arss, Associate of Science and Transfer objectives.
2. The following table shows the normal completion time and maximum time for certificate programs of varying lenght:

| Unis requirnd for the Certificate Progran | Nornal Length | Maximan Length |
| :---: | :---: | :---: |
| 10 to 24 | 2 semetren | 3 semesters |
| 5 to 36 | 3 semesten | 4 semerten |
| 377 to 48 | 4 semesten | 5 semeten |

To be digible for financial aid, a program mast be at lear 6 months in length. Students enrolled in a certificate program may continue to cquily for firancial aid up to 72 unith, 6 fill-time sernesters, of the equiralent, if they are planning to obtain an A.A. or A.S. degree or to manifr to a four year school in addition to obraining the cerrificate.

## Grading Policy, Course LImitations

In the application of these standards for progres, the Financial Aid Office will follow the policies of the colloge as described in the mollege caralog, In particular:

1. In calculating units completed, only those classer pasied with an A, B, C, D or CR will be counted as completed dases.
2 Clanes in which the atradent receives grades of F, MC, INC, IR and W will not be counted as completed clases.
2. The suudent may not receive credir for a class for which hehthe previously received an A, B, C, or CR unless the caralog upecifically ays that the clant may be repeated for credit.
3. Students may receive financial aid for ITV dasues taken in conjunctios with regular datser within the LACCD. TIV dases cannot exceed $50 \%$ of total semester units. They will not be condidered for pryment until complered and yrader mre ported.

## Appeal Procedure For Reinstatement Of Financial Aid

Studenes who have been dispualified from receiving financial aid may wpeal for reinsatement by submirring a written appeal to the Financial Aid Office in compliance with the procedure vartined in the formal letter of disqualification.
Reinatatement may be granted, denied or postponed subject to falsilment of specific conderions livted below.

1. The death of a rolative of the studene.
2. An injury or illneas of the student.
3. Other special circumstances.
4. If denied, madenes may re-appeal after completion of one of
more semesters with a 2.0 GPA or better.

## Fraud

A student who attempes to obtain financial aid by fraud, will be suipended from financial aid for unsatifaciory conduct.

The college may report such instances to local low enforcement agencies, to the California Srudent Aid Comminion and/or to the Federal Government.

Retritution of any fimancial aid received in mech manner will be required.
Nate The Baend of Finarwial Auritance Program (RFAP), etablaithed te help atuilonts pyy the Califernia Communnity Callegr onnolloment fre, it ipecifforaty amitred foum the above tixt. An eligible thalemt onmilind ar anr of stir nine Lay Angeler Community Calloge Ditrrict campuser wio 4pplin for abe mnollment fre will be gunted ithe atrintance imopective of thisher stathe under the acedemie provinionts

## Business Office

All atudent finances are handled through the Butiness Office. Services available are: collection of feer for enrollment, non-retident, audit, parking, and ASO. The Business Office alvo procenes child development payments, RTD pases, stamps and thearer tickets. Gerant checks are distribated by this office and repayment collected for returned checks.

## Services and Resources

## Child Development Center Child Care

The Child Development Center provides carr and innovative prograrss for children, ages 2.9 to 5.9 years, whose parents are envolled in 6 units or more at Pierce. The Center is open Monday through Friday from 8 a.m. untit $3 / 4$ p.m. Childen may be enrolled in an all-day servion $8 \mathrm{am}-3 / 4 \mathrm{pm}$. a morning servion $8 \mathrm{a} . \mathrm{m}-12$ p.m.s or an afternoon session $12 \mathrm{p} . \mathrm{m} .-3 / 4 \mathrm{p} . \mathrm{m}$. A nominal fer is charged and prorated on the hatis of family site and income. Some mubuidined care is also avaitable.
The Center is staffed by professional teachers specifically trained in Early Childhood Education. The Center offers opportunities for parents to better understand their child st behavior. The Center is also an instructional lab sine for obiververs and practicum stadents from Pierce and other colleges.

The Center is locared on the weat side of Winnelka Avenue, juat north of Victory Boalevard. For information and an application contact the Child Development Center Office, (818) 719-6494.

## College Safety and Police Services

Communiry colloge police officen have peace officer aurhoriry purnuat to California Penal Code 830.32a and Education Code 72330. They recrive the identical training as a manicipal police officer or county depury sheriff and they have the same authonity on or aboar the campus as a municipal police officer or county depury sheriff, The Colloge Police are responsible for reporting and invostigaring crimes, issuing traffic citarions, tesponding to medical emergencies, traffic accidents and fire emergencies, as well as other incidents that require police assistance. Please report unffic accidents, injuries, thefts, items lost and found, or any unusual circamutances to the College Police. They are located in College Police 5300, adjacent to the Men's Gym. The Police are on campus twenty-four houn a day, seven days a week.

All lost and found items shall be turned in to the police. Stadenss losing items may chaim them at this office. Please report any lost or stolen items.

Parking lots are partolled for your protection by the Student Parrol and College Police. Please lock vehicle and do not leave anything of value visible. Valuables should be locked in the trunk or left with Collge Police.

Seudents will need to seck outside assistance for any vehicle problems such as, keys locked in vehicles, out of gas, and dead barteries.
The Collcge Police isme citations for parking illegally and for craffic violationa. Please observe all Parking and Traffic Regulations as poited. Citations are a minimum of $\mathbf{\$ 2 5}$. A citation for parking in a handicapped zone without a permit in $\$ 330$. All citations are payable to L. A. Pietce Colligge. Also, be aware of tow away zones. All uapaid citations are sent to the D.M.V. for Registration hold, penalties are added. Be sure to read the current achedale of clames for specific parking and safery nules.

Dogg are not allowed en campur with the exception of guide dogs for the blind. Skatcloarls, roller dates, and roller blades are nor permitted on campus.

## Counseling Services

The Counseling Department anists students in making decivions regarding educational, career, and personal cancerns. Counseling is avilable for Educational and Career Planning, and personal and critis probliem situations. These services are provided by profenional cousselors. Counseling services may be obtained through individual and group counseling and advisement, short-term classes, workahops, reference materials, referrals to retources on or off campus, and through the use of testing (and reforral to reforence) materials. Counsding can assist individuals to assess interests, abilitics, and values to ser goals and to make plase to accomplith the goals.

## Educational Planning and Counseling

Counselon assitt uudents in setring educational goalk, exploring alternatives, making decisions regarding their academic programs and undentanding the effects of having made these decisions. Short-term courses are aboo offerod to help students devdop skills in such areas as decision making and personal development. Counseloes are located in the main Counseling Office in the Administration Auilding. Appointmens may be made in the Counseling Office

Faculry advisons, located in most departments, will also help students with academic and career information related to courses and programs in the academic ares of the advisot.

## Personal Counseling

Personal counseling may be obtained from counselors in the Counseling Office or at the WoMen's Center. In addition, a Help Center, staffed by coanseloss, it available to stadenes who feel a neod for abort-term help with personal problems in a critis tituation. Assistance may be prowided through a limited number of individual counseling sessions and referrals. For an appointment go to the Counseling Center, located in the Administration Building

## Carser/Tranafer Center

The Career Services provided are individual appointments, perional development claues and workshops in career planning and job seeking skills for those persons undecided about their caseer or educational goals. $\lambda$ thberary of occuputional information, including a computerized career information system, is available. The Career Center is located in the Administration Building.
The Thanifer Services provide mudents with the opportunity to pensonally meet and discuss transfer plans with universiry representatives. Informarion on admisions, financial aid and scholanhips, housing, and university campess tours is avallable. Students may obeain applications for California State Universitys Univervity of Californis, and echer colleges at appropriate times.

## Vocational Rehahilitation Service

Stadents who have a phyical, emotional, or other disabitity which handicapr them vocationally may be eligible for the services of the State Department of Rehabilitation.

These acrvices include vocational counseling and guidance, training (including payment of college costs), and job placement. Under certain circumstances students may alvo qualify for help with medical nocdls, tiving expenses and transportation and ocher services.

For further information appointments may be made with a counsdor in the Special Services Office.

## Veterans Advisement

Veterans Advisement is available to all veterans and veteran dependents who desire to use their benefits. The Veterans Office is in BUNG 0342.

## Study Abroad Program

Les Angeles Communiry Collcges offer a unique opportunity to atudy in a foreign country while earning college credit. Sundents interested in obtaining furcher information abould contact the Counseling Office.

## Disabled Students Programs and Services

Students with physical or learning dimhilities are offered a wide range of services including registration, special parking and counseling. There services are also available to students with a temporary dishitity such as injury or poat-operative recuperation. All services and equipment are peovided free of charge to any cqualifying divabled mident.

Deaf and learning disabled arudents are offered additional services inchuding special classes, rittoring and compurer- asisted instruction.

The Disabled Students Office is located in the Administration Bailding, room 1024. The Office is open Mondsy through Fridxy from 7:30 am, until $4: 30 \mathrm{p} . \mathrm{m}$.

The following ppecial services are offered:

- Interpeter servica for the deaf
- Notrtaking servica
- Motility astitance
- Specialined rutoring
- Registration axistance
- Special parking areas
- On-campus tranportation
- Academic and career guidance
- Special equipment including
- Tilking calculator
- Prine magnifier
- Specially adapted computen


## Extended Opportunity Programs and Services

Fanended Opportunity Programs and Services (EOPS) is a watrfiuded comprehensive support syyem which recruits and aswiss qualified low-income sudents with educational disadvanages. EOPS provider academic counseling, carecr exptoration, tutoring, priovity rgigration, book grants, and workhops aimed ar helping students succeed in college. Participants maut be full-time stideters.
EOPS is located in BUNG 0340. Office hoan are $8 \mathrm{~s} \cdot \mathrm{~m}$. to 4 p.m. Monday through Friday:

## Food Services

## Cafeteria

The Cafeteria Building, which is located neat to the Campua Centet, ba full cafeteria service in the Goill Room featuring breakfasts and ber grilled lunch items. The main line Dining Room serves hot
 Hourn 6455 am, to $9 \mathrm{p} . \mathrm{mh}$. Monday through Thuridy and 645 sm to $2: 15 \mathrm{p} . \mathrm{m}$, on Friday.

## Vending Machines

Lecated at various locations on campus. Serving hot and cold driaks, undwiches, fruit and oeher miscellaneous mack items. Change machines are available in various vending machine locations.
Information or problems with any or all sevices, call (818) $719-6412$ from 7 a.m. to 2 p.m., Monday through Fridgy.

## Health Services

A variery of health services ase available in the Studest Healh Center loczed in the Campus Center. The Center provides first aid, crisis intervention, healh asciument, healeh counseling, health referrals, und hicatiri informarion Seudenes are wefcome to drop in or call ex. 270 for an appointment to see a phyyiclan, the college nurse, or a nume practitiones.

The Student Healh Center can provide low cont family planning services, extensive gyneculogical care, and the texting for diagnoxis and treatment of senmally mansmitred discaves. Most bacterial infections can be treated with low cost antiliotics that the Health Center can mupply. Free condoms and over-he-countet medications are also provided on an as needed basis.

Consultation and/or seferral rogarding persomal and emotional problems afficting a student's educational progress are available through the Seudent Healch Center or the Help Center in the Counsting Office.
It is strongly urged that an identifying emblem be wom by penons with any medical problems or allergies. Students with known phynical impairments must limit enmollment to courses in which they may participate with safery.
Srudens are encoursged to obrain a medical insurance plan. A commercial sradent sicknes and accident plan is available through the Sendent Health Center and the Office of Smident Activities in the Campas Center. A dental and optometry plan is also available. Information and applications for plans may be obrained in the Snudent Healdh Center or Office of Stuilent Activitics.
Students who need medical assitunce when the Student Health Center is closed should contact the Campun Police at ext. $\mathbf{4 5 0}$.
Srudenta isvolved in athletias who require a spors physical mest be seen by a physician contricted with the College for that purpose. The Srudent Health Center is not allowed to perform sports phyicals.

## Instructional Media Center

The Instructional Media Center is operated by Information Services and is located on the ground floor of the Library. Utilizing casette trper, students maxy receive mpplemental inurnaction in the areas of soclat iclence, languago (Engtith, ipeth, and forogn languaga), munic, science, drams, office administration, hiutorg accounting, economics, cooperative education, and lectures in various other disciplines. In addition, instructional materials such as filmutrips, Tocodt, ilide-rape programi and viden-tapos are available for ficulty. The Insmoctional Media Center offons the service of duplicating inumuction-related casertes for home ase for faculty, subject to Media Center regulations. Students are encouragrd to supplement their mady in the vathores mbject fledds by uitiling the services of the Media Center.

## The Learning Center

The Learning Center provides services to improve madent productivity in the clasroom. The services indude ruroring in a variery of discipllines. Smal group workahops are given in writing and ESL. Conversation. Sdf-paced credit counes in Academic Reading and Basic Mathematics are given on a credis/no-credit basis. The Special Lecture Series covens topica of academic concern including "The Term Paper," "How to Study for Finals," "Coping with Ter Anxiery,
Computers are wailable for open acceis class related activities at several locations on campes. There is a computer assisted instruction lab as wrll as word procesing, Students are encourgged to viet The teaming Center to take advantage of the sevices offered. The Learning Center is located in Room 1613 and 1604 in the Drafting Building. The services are free to Pierce Collage mudents. The Learning Center is open Monday to Thunslay $9: 00 \mathrm{zm}$. to $9: 00$ pim, and Friday $9.00 \mathrm{a} . \mathrm{m}$, to $2: 00 \mathrm{pm}$.

## Learning Disabilities Program

The Learning Disabilities Program, located in the Diahlod Studenis Office, amats college stadents with the esential tools needed for saccess in their clases. Many students need help in hanic resding, spelling and arithmetic skitls as well as individuationd special techaiques for the realization of their fill potential academically or vocationally:

The student's problems are diagnosed, and an individual program is desigped to meet their neefe. Seudents advance at their ome nate using a large variety of instructional materials. Spocial clases and rutorial sesions provide assistance. Specialied tutoring in regular daser can be provided by arranging for individualized adapeanions with inurucroes.

## ROTC

Through arrangemenes with looal univeritics, qualifiod Mierce College mudents may participate in the Air Fotce Roerve Officer Training Corpe (AFROTC), Many scholanhips ase available, and saccental complerion of as few as four semesters of academic dases and litadership Libonatorie may lead to a comminion as a second liestenant in the U.S. Air Fovce. For enrollment information, telephone Logola Marymount Univansily (IMU) ar (310) 33-2970, the Univeniny of Calformia, Los Angeles (UC.A. at at (310) 825-1742. or the Univensity of Southern California (USC) at (213) 740-2670

## Scholarships

Both on-campus and off-campur scholanhip announcements are pouted in the EOPS Office, BUNG 0340. Applications are amilable to qualified urudents. New scholanhip announcements are recaived wedidy, Deadtines for schotanhlupe are announced in the Ferce Hulletin.

## Student Employment and Housing Services (Job Placement)

## Employment

Sradents secking employment are encoaragod to use the rudens employment service (job placement). The office is well known in the twainess community and employers are consuandy placing job ooden for skited and non-skilled amployment epportunitis in divene occupational fields. Reforrals are available to all enrolled sudents and gratuates, for part-time, foll-time, temporary and nummer work.

## Housing

The office maintains a tirting of room and board opportunities in nearby private homes in cochange for work or for eent, as well as sharing virusions with other utudens. Occasionally, houses and gues houics are available. The college doer Bot inspect accommodations which are listed and asumes no reponsibility.

## Lecation

The Student Employment Service is locatal in BUNG 0312.

## Student Store

Pierce College's Snudetu Store is located in the center of the compun next to the Lillrary. The store is a meeting place and an adjunct to both the academic and social life of the campus. It is an acedemically chicntod trource, where the need for and iniencs in mading and
stady engendered in the clauroom can be nurtiared and reinforced. The store is also a social focal point on the camput, offering many goods and services required by a multi-varied college community.
Pierce Callege's Student Store is owned and operated by the Los Angeles Consmusity Callege District, under policies set down by the Boant of Thustes.

The purpose of Pierce College's Stadent Seore is to provide for the sale of book and supply requirements connected with the academic progranss of the collige. The Student Store is operated on sound butiness principles in the anticipation that its income will cover both its operating expenser and is attributable capital development coses.

## Veterans Services

Veterans applying for elucational benefiss are rosponsible for knowing the VA digbisility requiremenes and reguatations. In addition, they must meet the school adminion requirements and supply the college with copies of official transcripts from previous training Applications for VA edacational benefiss, as well as additional information, may be obtainod from the Veterans Administration or the staff in our Veerans Office. The VA requires that students request the school's veterann counselar to determine transfrable credits before starting their second semester at Pierce

Programs at this college are appeoved for payment by the Veterans Administration through the Council of Private Postsecondary Education. To receive payment when repeating a class, tudents murt


## Edecational Benefits

Veterans attending under the prowitions of Public Law 94.502 rective prymonts at the pevailing rates. A copy of the law ir posted in the' Veterans Office. Chockr received during the moenh cover the piviour moathis attendance:

## Overpayment to Veterans

The Veterans Adminitration holds veterans liable for overpayment received for reasons inclating failure to notify the VA and the school's Veterans Office when they drop a clas or recerve an incomplete grade. Veterins who recelve overpayment should promptily notify the VA and the schools Veterans Office in BUNG 0327, The VA allows only 30 days from the start of the semester for veterans collecting bencfits to add or drop clases.

## Credit for Millitary Service

Pietce Colloge granes up to she units of credit for nilitary service. Crodit will alvo be granted for some claser at special military schools. Geanting of crodit for dective units is based on the weterans cotupliance with the folowing guidelines:

1. Carrent enrollment.
2. Having served at least 181 days in the armod services.
3. Presenting a copy of military separation puper (DD214) when patitioning for elective credit.

## Tutoring

Veterans may apply to the Veterans Administration for reimbursement of rutorial services. Such reimbursement is limited to 12 months, and based on approval arranged through the Vererams Office

## WoMen's Resource/Re-Entry Center

The WoMen's Resource/Re-Entry Center is a program offering spport and encouragement for mature amidents to asxist their unasition back into college. The program provides the following ervices to all currently esrolled male and fenmit itudents as wdil as those individuals considering returning to pursue educationat djectives affer a long absence from schoolt

- Personal counseling
- Academic counseling
- Weckly support groups
- Special seminass and lectures
- Free legal advice
- Small granes
- Emergency book loans
- Scholanhips for renurning atudents

The WoMen's Resource/Re-Entry Center is located in the Administration Building, ADM 1002, neat to the Counseling Office. Office hourn: Monday through Thunday from $9: 00 \mathrm{zm}$. $3: 00 \mathrm{pm}$. Fiday $9: 00 \mathrm{zm}$, to 12 noon, Selected Tuesdays until 6.00 pm . For iebormation, please call (818) 719-6437.

## Student Activities

## Co-Curricular Activities

Co-Curricular or extra class activities are intended to provide eadents with the opportunity to be better prepared to fulfill the duties of citizenship in a democratic society and earich their ofucationat and porsonat development. This miay be accompthithed through eatra dass cultural activities, volunteer programs relared to be inutructional program, community-rdated affain, athletios, and modent government. Sendents learning to work with groups will dedop skitts to perpare them for cooperative and meaningrial asociations in both occupational and personal pursuits.
The devolopment of a student activity program in a vital portion of the obligations that both faculty and administrators assume for indents is any American colloge communiry; At Pierce, student kaivities are an integral part of the educational program.

## Intercollegiate Athletics and Eligibility

Iatercollegiate Athletics are an integral part of the total college progrim. Men and women compete in the Westen States Conference in all sports. The sports offered for men are hasehall, foothall, nwimming, tennis, volleytall and water polo. The sporss offred for women ate sofftall, wimming, tennis, volleyhall, and bankethall.

## Eligibility

All queutions pertaining to athletic eligibility should be directed to the Athletic Director at (818) 719-6421.

## Publications

## College Newspaper

The college nempaper is publiched as a leaming experience, offeed under the collige journalisu instructional program. The editorial and aforriaing materials publishel by the newpraper, including any opiniont exresed, are the toponnibility of the madent newopaper staff. Under approptiate state and federal coun decivions these materials are fiee from prior restraint by virtue of the Firs Amendment to the United Seates Conmination. Accordingls materials peoblidicd, induding any opinions expressol, thould not be interpected as the position of the Los Angries Commeniny College District, the Colloge, of any District or Collige officer or eniplojee.
Journalism students prodice the awand-winning college newspuper, the Roundup, which is publiahed weekly and disuributed free to all sudents. This newpaper contains newr of the entite colloges, boeh day and evening: Also, journalism atudentr produce a magavine, The Bull, which is stistributed free to all suadents.

## Student Government

The Dein of Secident Services reproenss the Faculty and the Adminiustacion of the colloge as sponsor and advisor of the Associated Student Organiration. For information on becoming involved. please visit the Sudent Sovices Office in the Campua Conter.

## Associated Students Organization (ASO)

The stadents of Pierce manage their own affains through the organization known as the Associated Studenes Organization (A.SO.). Each student who enrollh ar the college may become a momber. The Asoccated Students Organization provider a framework for all college moudent acrivitics. Through active prarticipation in such activitios is student government, dubs, polblication, athlerics, and special evenss of she collegs, the isudent renders service, increases mociat and cuthural awarenes, improver Ieaderhip abilities, and creates a close amociation with ocher sudents. Srudents are encouraged to serve on campras and A.S.O. committens. For information viuir the Suadent Services Office in the Campus Cotar

## Qualifications for ASO Officers <br> (Administrative Regulation E-22)

Administrative Regulation E- 22 perrains to elected Awsciated Sradents Organization (ASO) officer, officen appointed to elected poutions and heads of ASO Suading Commintors.
Adminiutrative Regalation E-22 does not apply to clubs, clab reperoentatives, ASO special sommittes and all-college commitres. and arudent muster.

## Administrative Regulation E-22

A sredent cannor be a candidare for ASO office if he or she has servod more than four semesten in a atudent govemment elected andfor appolinted office, or in any office of position where he or the vored on the expenditure of ASO finds in any college.

1. An officer may serve a fifth semester if he or she is eligible at the time of auuming office (e.g, has served three semesten and is a canditare for an office with a oneyear term).
2. Ten weeks or more in office or service will be counted as a full semester.

All suadents riuning for office must be paid members in good standing in the Associated Students Organiration ar the college where the dection is being held. A candidate may run for only one campus office on the same halloe.

The candidatolofficer must have a cumulative and current GPA of as leasr 2.0 at the collrge/diutrict during the semesten in which the atudent government office is applied for and held. Current means the most recently completed remester.

The candidatelofficer mur not be on progrear peobation. Progras prokuation is defined as having recorded grade entries of "W" (Withdrawal), "T" (Incomplete), "NC ( No Credit) for fifty percent or more of all the units in which a mudent has envolicd.

The candidatelofficer must be actively enrolled, antending and succossfully completing clases in a minimum of nine (9) units for students enrolled exclasivily in day clasen, or enmolled in a combination of day and evening clases, and rix (6) units for students entolled exclusively in evening or Sarunday claser at the college where the office is nought or held. Candidates may be enrolled in more tham one colloge in the Dietrict, but the candidate must be currontly enrolled in a minimum of six (6) units at the college where the candlilate is secking office. Officens must be continuounly enrollel in a minimum of ins ( 6 ) units at the collige where the office is held.

Notr: Imalhidual calloget, in sheir ASO ounuinurians, may ut forth sumdents fir office which are figgore than shue listed abves. Firne
 pheial atrommodetringe.

## Student Clubs \& Organizations

Approximately 30 campus clebs and organizations have open membenhip to students who are members of the Asociated Snadents Organization. Service clubs, special interrst duhs, deparmentmhated urgantations, and religious dubs offer a variery of opportunities for rudent involvement.

The dub program is cooedinated by the Aasociated Strodents Organiration through the AS.O. Senare. Clabe which have been setive ar Pience during the past iefmerten inctude: Alpha Gamma Signux Animal Healeh Technologe: Armienian Seudents Associarion; Bible Followhip Club; Californis Nursing Seudents Association; Cub Latino United for Education; Dance Clubs Engloht Circley International Sendents Chub; Kahutang Flipino; LAGO5; Muslim Srudent Associations Parents Clubs Persepolis Phi Theta Kappas Pierce Hillet Pre-Vat Clubs Sigo Languge Clubs and United African-American Student Association.
Information on clubs is avalable in the Associared Sradents Office or Scudent Services Office in the Campus Center.

## Student Trustee Election Procedure

The Los Angeles Communiry College District conducts an dection annually whereby each student in the District has an opportunity to be involved in the process of selecting a atudent representative to the Los Angela Community Colloge district Boand of Trusters,
The process contained in Regulation E-78 provides for a thorough evaluation of che candidate' qualifications and insures an equal opportuniry for any individual from any District college campus to seek the position of sudent reperientative to the Los Angeles Communiry Collegs District Board of Trustecs.

1. In accordance with existing law, candidates for Student Trustee mure:
2. Be raidents of the Distric.
3. Be carrently enrolled at a District college.
4. Be corolled in at least 9 units for day atndents and 6 units for evening students.
5. Plan to enntinue as a District rexident and enroll ar a District student through the one-year term of office.
6. Have complered a minimum of 12 units and a maximum of 60 units of college work.
For further information, contact the Stadent Services Office in the Campus Center.

## International Students Program

International education and the education of seudents from abrond is a major undertaking of the Los Angeles Community Colliges. Through the exchange of teachers and moudents, the Diurria secks to foiter matual reppect and undersanding for the diversiry of cultures, langrages, and ideas of the poople of the world. The collige ertends a warm welcome to all suiudenes regantless of race, language, sex, narionalings eligion, or political ideology.
All anndents coming from abroad need to contact the International Students Office as soon as they decide to study ar Pierce College. Admision requirements for inrernational students are different from those for reident stutents, itudents are encouragot to calt or write for the application package.
The address is as followe

## International Studentr Office <br> Lov Angeles Fience Colloge <br> 6201 Wianetka Arense <br> Woodland Hills, CA 91371

A counselor is available to assist international students with academic, career, personal, or immigration issues. A calendar of rocial activities is planned for internurional students each semester which includer thrater partles, camping uips, visits to local points of interest, holiday parties, and regular "rap" scsuinas designed to encourage the discumion of a wide range of lowes and concerns.
Although the college does not have any dormieoties, tendentr can roceive awistance in locating suitable housing through the International Students Office.

# Associate Degree Programs 

## Graduation Requirements

The Boand of Governons of the California Community Celloges has authorited the Lot Angelas Commaniry College Districr Board of Trustes to confer the degrees of Aswociate in Arts and Associate in Scince.

The awarding of an Associate Degree ymbolites a wecesful attempt an the part of the College to lead stadenas through putterns of tamlng experiences delifned to develop cerrain capabilities and imights. Among these are the ability to think and to communicate dearly and effectively both orally and in writing to ese mathemaxio: to underitand the moder of iaquiry of the major disciplinos to be sware of other cultures and times, to achieve insights gained through operience in thinking abour echical problemx and to develop the capaciry for self-underitanding, In addition to these accomplishments, the atudest should posseu sufficient depth in some fird of knowledge to contribute to lifetime interest.

Continting rudents thould follow the gratuation requiremenss in the caralog in effect ar the time of thrir initial enrollment. A continuing atudent is one who has completed a minimum of one aurie per cilendar yeat.

Sendrntr whe interrupe their antendance, excrpt as noted above. betome nubject to any new requirements which are in effect at the time they reenroll.
Uhir Requirement 60 to 64 uniss of couns credir in selected drgee applicable counco. One ctedit hour of communiry college wook is approximately three hours of recitation, snady, or laboratory work per wock throughout a term of 16 wecka.

Sholanhip Requirement A "C" $(2.0)$ grade average or betrer in all dquet applicable counes attempted.

Campetesey Requirement Students must demonatrate competenoc aroding, in written oxprenion, and in mathonatios. The following courges and caaminations are approwed to mett the competency fepainment for the associate degree as defined in Boand Rule 691.12
A. The competency requiremeat in reading and written caprestion for the asociate drgree may be met by:

1. The competency requirement in realing and written exprevion for the A.A./A.S. Doqree may be mut hy completion of "one" of the following counes (or its equivalent at another college) with a grade of "C? or better.

English 28
English 31 *-English 101 - Journalism 101

Competency tmay be met through crodis-by-ecamination, as determined by the individual collogen.
B. The competency requirtment in mathematics may be met by!

1. Completion of one of the following courses (or ita equivatent at another college) with a grade of " $\mathrm{C}^{+}$or betten

- Mathematics 113 \& $114,115,116,119,146,147$ or any higher math coutse with a prerequisite of Math 115 or its equivalent,
- Computer Tech 60,
- Electronics 10, 12, 14;
- Gen Engr Tech 121;
- Engr Tech 49, 50, 51it
- Statisties 1.

2. May also be met by achieving a sathfactory score on the Math Competency Exam i.e. 15 or higher.
Realdence Requirement Completion of at least 12 degree-applicable units of work is retidence and attendance at the Colloge daring the semester in which the graduation requirements are completed. Exceptions may be made under special circumizances.

Course Requirements Students who are majoring in programs of seudy for which 18 -35 units are required in the major shall complete Graduation Plan A. Seudenes who are majoring in programs of arady for which 36 or more units are required in the major shall complete Graduation Plan B.

## Campus Procedure <br> Campleting the Amociditr $D_{\text {goger }}$

1. Sendentr who devire an AA or an AS degree must file a petinion to graduaze no later than the beginning of the semester prior to the one in which they apect to complete the requirements. (See Schedule of Claser Calendar page for enact datei)
2. Seudents must daignate which plan they are using to obtain the degree. The choice should be based on these gaidelines:
a. Choove Plan $A$ if courses have been chosen to prepure for transfer to a four-year college or universiry OR if courser have been chosen to obtain a rwo-year general studies education.
b. Choose Pian B if couner have been chosen to complete thone listod in one of the two-year occupational programs shown in anotber section of this catalog or if planning to transfer to a four-year institution as an engineering majot
3. Restrictiona Under Plan A

A student must show at least 36 CSU-transferable units in the 60 units fequired regardless of the transfer intitution to which the audent will transfer.
4. Suhstitution of Graduation Requirements

In unusual or special circumstances it is possible to petition for subutination of major requirements as well as general education griduation requirements. Gruduation requirements are never waived, only mubstitutions are considered. Simations in which petitioning might be appropriate include course tequitements that are not currently being offered at Pietce or substitution of more advanced courses for lower level requirements due to previous technical experience in a particular area. Petitions for Subrimation of Graduation Requirements afe avallable in the Geaduation Office.

## Note: The following limitations apply to <br> Graduation Plan A or R

1. A student may nos use more than two courses taught in any department in order to satiafy General Edhcation Requirements. (See Departmental Organitation listed in the back of this catalog.)
2. A student may not duplicate disciplines (for example, History 11 from B, 1, with History 3 from B, 2) in selecting courses to meet the requitements in each of the sections of B and D .
3. While a coune might satisfy more than one general education requirement, it may not be coanted more than once for these purposes. It may be counted agiin for a different degree requirement as determined by the Colloge.

## PLAN A:

To be uted by studerts who desire to obtrin a general studies associate dagree and by trander stodents (axcept Enginearing majoral who should coordinute this plan with the requiremetts of the college of transfer (see a eounselor).

Major Requiremente: At least 18 semeser unin of study alen in a vingle dixipline or relaed disciplises.
Under Plan A. A stadent mus connplese ar least 36 CSU trasuferable unin in the 60 units requined mprallon of the tramfer instimuios to which be student will trumfer

General Education Requinements 30 unis in the following puthent
Section A: Natural Science - Select 3 anins from the following covence:
Agri 105, 511, 711, 712, 901, 940, 950, Anchen 101; Aution 1, 3; Binlogy 3, 6, 10, 25, 30, Chem 40, 45, 51, 60, 101! Co Sal 570 ; Eleam 2, 4, 6, 8, Env Sd 1, 2, 7, 18, Cieng 1, 3,9, 17, Geology 1, 4, 10. 11: Meteor 3, Oceano 1, 10. 12: Plyzica 6, 12, 37-92, Myin Scit, 4,5: Pithial 1, 8,9, Pych 2

## Section B: Social and Bohavioral Selences - 9 unis

## NO DUPUCATDN OF DISCIPLINES

1. Select 3 unis from the following counser:

Hienery 11-13, 41, 42, 52 . AN Sa 1, 30.
2. Select 3 unis fiom the following cowana Agri 110; Anthro 102, 103, 112, 132, 141; Bua 1, 5, 6, Eeom 1,2, 10 Eav Sd 17, Geng 2, 5, 10, 14; Hirtory 5-6, 8, 15, 20, 21, 27, 30, 40, 50 , Joumal 100 (mplece Journal 5 and 12, Mgme 31, 3k. Off Adm 70t Pel Sci2, 7, 14, 35; Hych 1, 5.6, 11, 13, 14, 16, 18, 42, 51, 52, Sec 1-3, 6, 7, 13, 17, 18, 23, Spunlh 10 (bame os Hier 220, 265 Sepp 2, 6.
3. Selocr 3 adlitional uning frim numbens 1 or 2 in thim nection.

Section C: Humanities - Seleci 3 unin from the following counes:
ASL. 1-4, 40, A thmo 104 (ume as Ling 1), 105, 121, 123, Art 101, 102, 105, 111, 201, 400, 500-502, 614. 700. 705, 721, 505, Claem 3, 15: Euglah 102, 203-208, 211-216, 239, 240, 250, 252, 270, French 1-4, Hemry 1, 2, 7, Humm 1, 6, 11-14, 30, 31, 60, 61, 88, 89, Itain 1-4; lepan 1-4, 8, 27; Ling 1 (uane as Anthro 104); Music 101, 111. $121,122,152,181-184,201-203,321-324,411-414,501,531,561$, $601-604,611-614,621,624,651,705,721,741,745,755$, Philos 14, 12. 19, 20, 22, 24, 25, 86, Pheso 10, 273: 5oc 11, 15, Spunidh 1-4, 8, $12,15,25,27$; Speech 190 Thentr $160,105,110,115,125,130,265$. $270,300,400$.

## Section D: Language and Rationality - 12 unin

 NO DUPUCATION OF DISCIPLINES1. Select 3 units from the following counce: Englinh 28, 101; Joumal 101, 108, Off Adm 31, 32
2. Select 6 unin from the following coune
 575, Eheam 10, 12, 14; Math 115, 116, 125, 145, 146, 215, 227, 239, 238 (eplace 235), 239 (replace 236), 246, 245, 255, 260, 261; Off Adm 77; Philot 6, 7, 9, 201; Ryph 26s Soc 4; Speedh 101, 103, 104. 121, 122; Sext 1; Supu i1
3. Select 3 addivienal unian from numben $I$ or 2 in this nection.

Section E: Health and Physical Education Activity-
3 unis minimum.
Seudenes who have served in the U.S. Amad Servicas or have compleed Pilice or Fier Dejumment recmit acadeny training prograins may be eliqtile to walve the heallh and PE. gricoarinn mpuirements, Contact He Gradarion
Office for details.

1. Healh 9, 10, $11-2$ =nin mininum.
2. Phprical Education Activiry course choven from Mhy Ed 100 throuph


## PLAN B:

Ta be used by studenss following an occupational program and angineering majors who detire to transfer.

Major Requirements As leart 36 smeater unis of nudy take in a single dincipline er melased dieciplines.

Genaral Edocation Requirements: IS unis in dhe following parrerni
Section A: Natural Science - Sciect 3 units from the list of narural sdence couns lated in Fian A, Natural Sciencer nection.
Section B: Social and Behavioral Sciences - Sclecs 3 unitn from the lint of nocial and behaviseal kciencs counes listed in P tes A, Social and Behusistal Sciencrs, Seation B-1.
Section C: Hamanities - Selecr 3 unia from the lart of humanities wouns lised in Phan A, Humanities.
Section D: Language and Rationality - 6 units minimum - Select 3 unis from the civana listed in Languge and Ratianality. Section D-1 of Fian A , and 3 additional unint frum Secion D. 2 of Flas A .
Section E: Health and Physical Edwcation Activity - Select Healh 9, 10 er 11. plan I unir of any plonical activiry coune 90 A , 908, 91, 96, 100 dhrough 600 or Phys Ed C66, 690 or 702 Gesluaen of the Nimirg propram ait exonpt from the healdh elocation mpuitenest, ale prior miltary servica fir any majes.

## Completing the Associate Degree

1. Students who desire an $A \mathrm{~A}$ or an AS degree must file a perition to gradaite during the semetter prior to the semester in which they expect to complete the requirements. See the colloge calcudar an puge 3 of the schodule of dasei for exact dates to petition.
2. Srudents must designate which plan they are uring to obrain the digree. The choice would be based on there biguiddinet
3. Choose Plan A if counse have been chosen to prepare for transfer to a four-year colloge or univernity in any major other than engineering $O R$ if couner have been chaven to obrain a twoycar general multier efucation. If you are a transfer student, be sute to coorlinate courser chosen in Plan A with requirements of the college of transfer: PLAN A IS NOT A TRANSFER PLAN.
b. Choose Plan B if counse have been chosen to complete the requirements for a two-ycar occupational program or if planning to transfer to a foxeryear institution as an enjpinecring majot. The two-ycat occupationat programs are listed in the Mierce Catalog under the heading "Educational Programs." All requirements for the program murt be completed in addition to Plan B.

## Educational Programs

## Academic Associate Degree Programs

Academic Associate Degree programs are designed to give the student an expanded educational experience in one acadentic area. Scudenta are required to take a minimum of 18 degres-applicable semeter units in a ipecific mbject area.
The Liberal Arts major allow the sadent who has not yet decided on a major fidd of study the opportunity to ample counes in a variety of mbjoth.

The sudent must complete at least 30 semester units of general education requirements as listed in Graduation Plan A. In addition, 18 iementer units of deqree-appticable counes are required. These may be taken in a variety of subject areas. A tocal of 60 units is required for the degree, of which 36 mast be CSU transferable.

## Occupational Associate Degree Programs

These programs are dexignod to give the mudent job skills to ure for employment purpores and to provide an Associate Degre upon the nuccenful completion of a two ycar occupational program.

## Occupational Certificate Programs

Occupational Certificates are awanled upon successful cumpletion of a series of courses leading to mautry of specific job skills. A grade of "C" or better is required in each couns.

|  | Bemer | Cartifuta |
| :---: | :---: | :---: |
| Agriculture Business |  |  |
| Fioral Dosign and Management | AS | c |
| General Agriculture | AS | C |
| Horse Science | AS | C |
| Horticulture |  |  |
| Basic Gardening (Basic) |  | C |
| Basic Gardening (Advanced) |  | C |
| General Horticulture | AS | C |
| Greenhouse and Norsery Industry | AS | C |
| Landscape Irstallation and Maintenance Induitry | AS | C |
| Landscape Planning and Design | AS | C |
| Landscape Technician (Basic) |  | C |
| Landscape Tachnician (Advanced) |  | C |
| Profestional Gardening |  | C |
| Natural Resources Management | AS |  |
| Pre-Vetarinary Mediche | AS |  |
| Vetarinary Technology | AS |  |
| American Sign Langenge (Interpruter for the Deaf) AA |  |  |
| Architectars |  |  |
| Architecture Technology | AA | C |
| Construction Tachnology | AS | C |

Art

| Grophle Design | AA | $C$ |
| :---: | :---: | :---: |
| Technical lilustration |  |  |
| Commercial | $A A$ |  |
| Induatrial | $A A$ | $C$ |

Business Administration

| Accounting | AA |
| :--- | :---: |
| Genscal Butiners | C |
| Manugemont and Supervision | AA |
| Martating | A |
| Aoell Estate | AA |

Computer Science
Programming for Business AA C
Programming for Microcomputars
and Small Business Syatems
C
Programming for Computer Science AS C
Computer and Network Technology AS
Microcomputer Service Technology C
Network Technology

## Electroaics

Digital Option
Communications Dption C
Analog Option C

## Electronics

AS

## Industrial Tichnology

| Automotive Service Technology | AS | C |
| :--- | :---: | :---: |
| Dratting - Mechanical | AA | C |
| General |  | C |



## Academic Associate Degree Programs

| FineArts | AA |
| :--- | :---: |
| French | AA |
| Itrian | AA |
| Latin American Studies | AA |
| Ebersl Arts | AA |
| Music | AA |
| Pro-Enginearing | AS |
| Soligious Studies | AA |
| Spaniah | AA |
| Theater | AA |

## Student Responsibility

The suggened sequence of counss in each program is the mort devirable to follow; but the order may be changod, if necessary, as long as pecrequisites are met. It is the student's roipontibility to meer couns prerequisites and griduation requirements. The general education and physical education requirements for the Associane Degrees are listed in previous sections of this catalog.

Students planning to transfer to tachelor degree programs should consult a counselor to verify requirements.

## Departments' Occupational Programs

## Agricelture Departmemt

Floral Design and Management
General Agriculture
Horse Science
Horticulture
Basic Gardening
General Horticulture
Greenhouse and Nursery Industry Landscape Instaliation and Maintenance Industry

Landscape Planning and Design
Landscape Technician Professional Gardener

Natural Resources Management
Pre-Veterinary Medicine
Veterinary Technology

## Art Departinent

Architecture Technology
Construction Technology
Fine Arts
Graphic Design

## Business Administration Departinent

## Accounting

General Business
Management and Supervision
Marketing

Computer Science and Information Technology Department

Programming for Business
Microcomputers and Small Business Systems
Programming for Computer Science
Computer and Network Technology
Microcomputer Service Technology
Network Technology
Earth Science/Physics Department
Pre-Engineering
Electronics Department
Electronics
Digital Option
Communications Option Analog Option
Industrial Technology Department
Automotive Service Technology
Dratting - Mechanical
Industrial Technology, General
Machine Shop Tochnology
Numerical Control Programming
Welding
Woodworking/Cabinetmaking

## Interdisciplinary Program

Religious Studies

## Media Arts Department

Journalism
Photojournalism
Modern Languages Department
American Sign Language/interpreting
Latin American Studies
Spanish
Music Department
Music
Nursing Department
Nursing
Office Administration Department
Professional Secretary
Legal Office Procedures
General Administrative
Offico Communications
Basic Word Processing: Word Perfact
Basic Word Processing:
Microsoft Word for Windows
Basic Computer Applications
Basic Computerized Accounting
Theater Dapartment
Theater
Theater - Costume Option
Theater - Technical Theater Option

L. A. Pierce College

## Agriculture - Business

## Associate in Science Degree <br>  Jarr of a program hading to a hatdile's dque

This progem is doipeat to offer nubens the opporniniy to cam a degee in Agrialtum - buiness

## AREA A-COURSES FROM THE BUSINESS DEPASTMENT

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| :---: | :---: |
| Attourting 1 | 5 |
| Buniness 1 | 3 |
| Mertring I | 1 |
| Manapeneet 13 | 3 |
| Marining 21 | 3 |
| Office Adrinistration | 3 |
| Friance 1 |  |

AREAB - COURSES PROM TRE ABAICULTURE DEARTMENT
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## AREAC - ELECTIVES

Any reanes approwed by elither department chain of Agriculturt ar Batiness

## Agriculture - <br> Floral Design And Management

## Associate in Science Degree <br>  yeurr of a progyein Inading to a harkeler's dicTve.

This progam is deligiet to popurr a potson as a floral deifnec, flower ilop manager of swnet. The program has bern devdoped throuph an advivery commitere of flord doigors, cut flowa buinens penons, and Ferce Collgys fuenty
AREA A - CORE PHODAMM

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| *Apime | Repal Foral Devge and Practices ll | 2 |
| *Aprimim | Reall Roral Detign and Practices lil | 2 |
| */pari704 | Adnanced fletsil Fionl Devign and |  |
|  | Proctices | 2 |
| Aginsest | Reristry Ropecti | 8 |

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## AREA B - MNOINEECTVE

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Gukowing Aoug 1, Aeri 209, 711 er 712.746 700.762,
764, Ant 201, 501, Ben 5, Mme i3.

## AREA C - GEAFAAL EDUCATION

Unies idead from Callege Candor to mues graduation mequiernents. Sot Phie 13 .

## Certificate Program

This program teaches undents the flowers and plans in Souchern Calsornis end peimarily in the florist trade. In Laborasary work the student lams cornge making flower arringements, funcral offerings, and the use of plastic flowers.
Lecturer indake hop managonent, Buying, and slemmanhip Upon completion of the centiliane progran, the itadent is qualified to be emploged in a flower shap.
REOURED CDURSES

|  |  | UNTS |
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| *Agri 72 | Artal Foral Desion and Practices II | 2 |
| *Rali ${ }^{\text {as }}$ | Ratal Rocrl Derion and Prectiesen ll | 2 |
| *Agrime | Atvaned Reatat Ronal Devigh and |  |
|  | Practicer | 2 |
| Agri Tobucc | Rapistry Propects |  |

"These camene wayr be talen in mequence.
EEETIVES

Seadents select related counen approved by the department, Supysted owures include, bat are not limined to the Cultming Acty 1, Api 299, 711 or $712,756,760-762$, 761, Ant 201, 501, Ban 5, Mgnt 13

## Agriculture - General Agriculture

## Associate in Science Degree

 jner of a progren inding to a hedevieri digme.
This propam is designod to give students a broal backpround to prepure dem for many fifferent occupations in be ficd of agiculture and agricultural benines.

AREA A - REDUITED MANOR CASSSES

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| Agisil | Principles of Arinal Science | 3 |
| Apirit | Pincopen of Herticulare | 3 |
| Atrisen | Natiril Revsurces Contervition | 3 |
| ANY | 1seSeries Clasa | 3 |
| AMY | 500 Saries Clast | 3 |
| ANY | 000 Series Cms | 3 |
| ANY | 700 Series Cass | 3 |
| ANY | 500 Saries Class | 3 |
| Coscise | Microcemputar Application Soltwirs |  |

AREAB - MANOR ELECTIVES
Additived claver should be silectod from any Agriculare counes.
AREA C - GRADUATION GENERAL EDUCATION REQUIREMENTS
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## Certilicate Progas-Titel筫mets

|  |  | UNITS |
| :---: | :---: | :---: |
| Agal 10 | Introduction to Sols | 3 |
| Agrisot | Principles of Asimal Stinnce | 3 |
| Apint | Frinciplas of Harticulure | 3 |
| ANY | 508 Serlas Casses | 6 |
| ANY | t00 Series Classes | 3 |
| ANY | 705 Seies Casses | 3 |
| ANY | -000 Serias Dasses | 5 |
| ANT | Business Clesses | 1 |
| CoScis50 | Microcomputer Application Sothwere | 3 |

## Agriculture - Horse Science

## Associate in Science Degree

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This program is derigned to perpare susdenss for a variery of iwbs in the hone inlurry and is molded asound a coee of hone xience, agrioulture, and general eboction coancs. Extemier practical operience and fied tripo to masy hone fictirie in and near lor Angile Coremy memplanent the acidenic poitina of beprogram

| MafA - CORE COURSES |  |  |
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| Agrita | Horne Hushandry | 3 |
| MEA B - REOUIRED MANOA |  |  |
| Agiset | Principler of Animal Science | 2 |
| Aglets | Aniral fivarition | 1 |
| Agristo | Animal Henth tind Diserse Control | 1 |
| ${ }^{1}$ Agisil | Anatory ind Prysiology of Aninaly | 3 |
| Agrim | Equine Managemert Titchripoes | 10 |
| Agitil | Farner Science | 2 |
|  | Buslic Equitation | $\dagger$ |
| Aciskl | Horsaback fiding Laborntory | 1 |
| Agri 630 | Begioning Equine Irsiring | 2 |
| Agitil | Advanced Equine Trining | 2 |
|  | Equire Hawlh and Frit Ad | 2 |

RAEA C - MANOR ELECTIVES
Sdeat finum any of the Apri $100,200,300,500$ or 800 keris counce.

## REEAD - GENERAL EDUCATION

Ser Piun B.

Certificate Program

Principles of Arimal Science
Animal Heath and Disese Cortral
Horsa Froduction
Horse Hastandry

Bopintin Fi.neq Laborntery
Avr Agrime 500 or 500 series courses 5


## Agriculture - Horticulture

## HORTICULTURE - GENERAL

## Associate in Science Degree

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## NREA A - CORE PROGRAM

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| ${ }^{1}$ Apritit | Botany for Horticulture |
| Agri74 | Princples ef Horticuturt |
| Aprisco | Phart ibertication ind Utel |
| Aprote | Intraduction to Fest Macajenent |
| A | Horticalture Propects A.C |

AREAB - REOUIRED COURSES

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|  | or |
| Agin 31 | PastProgagation |
| Agii NO | Iedeer Plant Core and Meirdenance I |
|  | Ravilestal Landscape Design |
| A ${ }^{\text {¢ }}$ \%12 | Landespe Instalation and |
|  | Mintmancel |

## AREA C - MANDR ELECTIVES

Sdect from 700 ar 800 serion councs or oher counct as sppured by the Deparment.

AREA D - GENERAL EDUCATION
Ser Plan B
15


## HORTICULTURE - GREENHOUSE AND

 NURSERY INDUSTRY
## Associate in Science Degree

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| AREA - COEE PROGRAM |  |  |
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| Agitu | Princties ol Hontestiore | 3 |
| Agn 800 | Plant ligneticution and thal | 3 |
| Agrism | Irasdiction ev Per Mmopement | 3 |
| Agri BEAC $^{\text {c }}$ | Hericuthirs Propets A.C | 16 |
| AREA B- REOUIRED COURSES |  |  |
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| HORTICULTURE - LANDSCAPE INSTALLATION AND MAINTENANCE INDUSTRY |  |  |
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| Associate in Science Degree |  |  |
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AREA A - COHE PROGRAM

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| Agrint | Principler ef Horticutire | 3 |
| Agroteo | Prat lfertication and Usal | 3 |
| Agrito | Infrodiction to Peit Maragimert | 3 |
| Agrimat | Haticulture Projects A.C | 15 |


| AREAE- | FEOURED COURSES | UMTS |
| :---: | :---: | :---: |
| Apri 112 | Fertlicars end Plast Nituition | 3 |
|  | Atorituturs ( Care of Ines und Shruts) | 1 |
| Apim | Cove of Norticutur Equipnert! | 1 |
| Agrise | Revidertal Lanfucape Desifor | 3 |
| Aprint | Landstape Instalation and Mairterance I | 3 |
| Ayias | Blogoritt Reatiog ind Cost Eismoting | 2 |
| Agrist | Besic Consrocton Tactiniques | 3 |
| Agiese | Irigation Design med lastalation | 3 |
| Agikici | Tur and Groundeover Masojenert | 3 |
| Agribs | Treiring for Pest Corntrul Disense | 3 |

## AREAC - MANOR ELECTIVES

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## AREA D - GENERAL EDUCATION

UNITS
See Plan B for ypecific requiremenes.
15


## HORTICULTURE - LANDSCAPE PLANNING AND DESIGN

 Associate in Science DegreeAusciate Degwe prognamy DO NOT necrisarily cosuritule div finst hev yuiry of a progrow Inalivg te a bardviar's drges.

## AREA A- CORE PAOGRAM

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| Agisut | Intuduction tip Peat Managenent | 3 |
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AREA D - GENERAL EDUCATION
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## HORTICULTURE

## -Certificate Programs

These progama are doignod to prepare a malent for emplopment in the fiedd
 ampanies ia the horticulnate indaties, penammenal agencie, or so become elf-emploged. Thee propram mut aloo iene at continining chbcation for

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# Agriculture - Natural Resources Management 

## Associate in Science Degree <br> Ansciatr Degret prognams DO NOT nemuarily comethate alo forst ave juatr of a prognan loading to a hacleler's degres.

The Natural Reources Management Program at Tience Callgge in deviped to provile sudents with a two grar Auwciue Science Deyeec, Counes are orimted and deripned to give mudenta practical oundor idill and eapcrience which ate secovary in teovarce management sodag. Included ant menniques of native dinib and mee identification, propygation, planting, and eumgemens nol profile kuly, mosorce darn colliction mechnigues basic lasd measarment tillt and topographic map/acrial phote intatppetatione Independent itads projers, and wot e tperience ant encourgal Emphatr is pload on zoquincing the vaikent with gomentnent mource manapment agnoier and thetr amointad career aran.

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| Agint | Botany far Horsicutur | 4 |
| A-19 | Nitural hesources Conswevion | 3 |
| Agise | Natimi Renourcet Laberatioy | 1 |
| Agrics | Introduction to Dutioor fecration | 2 |
| Apristo | Irtrudoction to Forest Manspenert | 2 |
| Asisse | letrudection to Wibile Mevajenent |  |
| Aprise | Whind fire Sciente | 2 |
| Avrsis | Calforia Nisthe Plants | 3 |
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|  | Human Fat |
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| Gieolow II | Irtosdiction te Coslong. $\mathrm{Dar}^{\text {a }}$ |
|  | Nathons Piris inf Monuments |
| Gealogy 12 | Irteduction te the firsogy of Califamie |




## Agriculture -Pre-Veterinary Medicine

## Deperterest Sibjert Adrier: De: Ler Shypire

## PRE-VETERINARY MAJOR

The Pieror Collogr Pre-Veterinary Program has as articulation agreement with the U.C. Davis School of Veterinary Medicine. This apeement allows our preneverinary atudents to apply dimclly to the Veterinary school affer completing at AS deger and uking upper divition Genetior and Embervtogy daves at asocher collgys. Work with verecinariass in mequind for adminion on Veerinary stool so that mudenta undentand the durie and seponibilities of a procitionec. The minimum reppirmest for animul, veterinary, and Biomedical ilence aperience is 180 hount Eaperience Aould indule work with trge and umall animuls and a variey of Ipecics. Agriculture clases ax Pience Colloge with oonoponding laborarry sections are appropriate wan to gain egperience ven bough many ate not UC eransfernalle lor credit. We encounge pre-vactinary modator to get invived in the liboratory claner with veneriniry vechnology takents.

PRE-VETERINATY ACADEMIC TRANING


## PRE-VEIERINARY EPPERIENTIAL TTANING

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| Agitiouti | Avimal Nurring Maborntory |
| :---: | :---: |
| Agritaver | Cinical Procedores in Avinal Care V Laboratory |
| Agricouth | Vtrerinay Cinical Patcogetaboratory |
| Agisisjucs | Veterinay Radiograh/4atorntory |
| Apri41 | Lerpe Anmal Nerning Leberatier |
|  | Equine Manajenert Tectricios |
| Aprose | Equine Henlh and Firt ANd |

The Pierce Agriculturt Deparment alio offen dectives for those vetrinary cience mudents who wilh to develop purticilar ancas of interest of for ampone whe wantr to erhance hir or her knowladger of animale.

| EIECTIVES (OPTIONAL) |  | UNITS |
| :---: | :---: | :---: |
| Agri 120 | Etical lumes of Using Avinds | 3 |
| Agriso | Introduction to Avirnal Facilitated |  |
|  | Derapy | 1 |
| Agi ${ }^{\text {a }}$ | Fint Aid for Componion Avinals | 2 |
| Agil | Aulan Care and Husbandry | 1 |
| Agises | Arinal Nutrifon | 3 |
| Aghter | Agricalbural Enterprite Projects | 10 |
| Apritiol | Harse Produstion | 3 |
| Api 60 | Horse Husbandry | 3 |
| Apism | Epuine Management Technlouts | 19 |
| Agitst | Equins Hesith mi First Ad | 2 |

## Agriculture Veterinary Technology



Aiece Calloge offors AS dogner in wetrinary tenlinology and pre-weterinary medicines. The metrrinary temberiegy magier qualifies a atuident to athe the Callifonia Shate Baend Eumixation to heomer a Hornuel Anlmal Hoshth Thefrician.

The Agriculture Deportment boats a variety of animal specier on campus, induding hoses, beef, caule, dheep, dogs, cast, nbbis, pies, and llamas. We aloo huve a fine library which complementa the Pierce Coliege Libery. Our ficulty inclader a Veteriturian, a PhD, a Regiteod Veterinary Tachnicima a Regitered Small Animal Dierician and Repeoductive Specislist, a socrouful modeo rider and hone traines, and oder experienced and friendly "animalpeople" Fisculry adrisement it avalitle and hifity meommended.

## VETLRINAII TECHNOLOGY MOJOR

The Vetrinary Tectnology Major is accreditel by the American Veterinary Melial Associarion. The program in experience oriented with lecture daues complementing handson labormory work. To qualify for this program, be nodent mant complete the following requirementer

1. Subail application, nhich can be obeained from Veterinary Technology office. Applications are due finsits weck of each semester.
2. Complete the following councwork:
3. Agil 180
b. Agri 401
c. Agri 501 and 510
d. Agri 511 and 512
4. One semeser of Agyi 181A: Fidd Experience at Veterinary Hospital The remainder of the claves for veseritary technology my be taken in any nepuence. The conarework may be complened in 2 yean, but moit rudents tuke longex A grade of D or F in ary das in grounds for dimisul fom the Veterinary Tadinology Program.
Snubent enoollat in AG $420,421,422,423,410,411,412,413$ mart purricipute in daily kened duys
The faculy escournge your parricipation in the Veterinury Techoology Cuh

## CORE CLASSES FOR VEIERINANY TECKNOLOGY



## VETERNARY TECRNOLOGY MANOR

| Agri貧 | Topics in Wherinsy Techociogy | UNTS |
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|  |  | 2 |
| Agiticut | Animal Noruing Ulabarnory | 3 |
| Agisizals | Avimal Nursing Maborstory | 3 |
| Atickers | Cirical Procetires Vaboratory | 1 |
| Agiamem | Cinical Procedurss Mlaboratioy | 3 |
| Aqiksyer | Voterinary Cinicas Pethology | 3 |
| Agiesses | Wherinsy Padiopraphylatorntory | 3 |
|  | targe Animal Nirring Laboratoy | 2 |
| Agiog | Laboritay Noimal Cars | 1 |
| Agi 480 | Clinksi Exprience for Avinal Technicima | 1 |
| Binlogy 3 | tidodoution to Blitogy | 4 |
| Dem 51 | Fundernertaly df Chenibry ! | 5 |
| Mcroz | Gonersi Microbiology |  |

## American Sign Language/Interpreting Program

## Associate in Arts Dogree

Ansciate Degere programi DO NOT necenarrily cenutinate the fint hev yearr of a prograni In ling to a hachelor's drgme.
This program is deligned to prepure for a caecer in inteppering for the delf: Sradests will be trained in the vabou apeces of intuptering and upon completion of the program should be prepaned to work in the ficd. As an inferpiter one wilf function as a fiotitrior between be deaf person and the hearing penoe.

| Hull semestal |  | UNIT |
| :---: | :---: | :---: |
| Ast3 | Amarican Siga Languagalill | 4 |
| Astis | Oreativ Siging |  |
| ASt30 | Fingupeling |  |
| AStes | Intediction tr Deal Ohurs | 1 |
| Finghat 10 t | Colopa Nasting and Comporition ! | 3 |
| ${ }^{*} \mathrm{Cun}$ Ed | Gienenl Edocution | 3 |
| SPRINE SEMESTEII |  |  |
| ASL4 | Aserican Sign Lanpuage N |  |
| ASL5 | Introduction tol interprition | 1 |
| "Antro 754 | Human Language and Commanication |  |
|  |  |  |
| $*$ *ing 1 | Introduction to Langupe and Lingitics | 3 |
| ASL31 | Fingerspeling II | 1 |
| *Speech kr | Tie Precens of litappermaal Cominuication |  |
|  |  |  |
| "Speech 010 | Orai Canmerication I | 3 |
| FALL SEmESTER |  |  |
| ASLE | Vice to Sign letarpiving I | 4 |
| ASt10 | Sipn bVice Irterpsting I | 4 |
| ASL17 | Btics and Prolestional Standerde of |  |
| *fien $\mathrm{Ed}_{4}$ | Onturtion Oonaral Elvation fequianet | 3 |
| SPRine Semesteril |  |  |
| ASL7 | Wice to Sige loturwiting II | 4 |
| ASLII | Sipn te Voice litepreting Il | 4 |
| ASLI2 | Spaciolined Intarpreting | 5 |
| *Hoath th | Finath Fluciton | 2 |
| *Pyted | Phyricol Edotation Activy | 1 |

Eectines A SL. 15 (Linguistia for Interpetes), A SL 25 (A SL Lab), *Ment Gniduation Genend Edeartios Repairment.

## Architecture Architecture Technology

Associate in Arts Degree<br>Aspaciate Dygw prognem DO NOT wevesanily comutihute the firit hov yuen of a prognein insting to a buchelor's digys.<br>This program ir deigred to prepure andents interested in obsainig emplogment as architectural techniciant or transfering to schools of Archivectuas. The program has been deviloped through an advisory committee of anchiters, vechnicians, contremes, and Perce Collogr faculot For Gieneal Edocrion Subject Reqiements, follow Phan B. If in evenual 4-jear degree is considered, be aware of the requiremens difforest frum Plan R1.

| FRST SEMESTE | UWITS |
| :---: | :---: |
| Aech 1 Intreduction to Arctitectire | 1 |
| Ach 5 Archisctinal Drwing 1 | , |
| Acth 9 Elenerts of Acchiocturs | 3 |
| Achl 22 Metpols of Conituetion | 2 |
| Nech 41 Arthactiral Model Buildirg | 2 |
| ${ }^{4}$ Math 15 Tochrical Matenatits! | 3 |
| SECDND SEMEster |  |
| Acth S Acthactiral Drwing II | 3 |
| Ach 21 Mataride of Construelion | 3 |
| Ach 33 Bevic Aectitecturn Design | 5 |
| ${ }^{23}$ Mrhi 100 Tochoical Metenstics if | 3 |
| Cioneral Efocation | 3 |
| THILD SEMESTER |  |
| Arch 7 Nuthactarnal Drawing lit | 3 |
| Achn En Equipnett of Buldiges | ) |
| Ach 34 Bisic Archtectural Derion Il | , |
|  |  |
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| English tion Cologe Resiling and Comporition 1 | 3 |
| 'Achtectural Electie | 3 |
| FOURTH SEMESTER |  |
| Asch: Aechitectural Drawing IV | 3 |
| Arch 10 Freehasd Drwing 1 | 2 |
| Ach 12 Acthitectural Aandering | 2 |
| Att Bective Action | 3 |
| Hemls 15 Heath Ebucation | 2 |
| Ophy Ed Plypical Edocation Actively | 1 |
| Genersl Edicaton | 5 |

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${ }^{2}$ Mand 116 ar 115 ar Mato 125 mg be ahrinanal.
${ }^{3}$ Mant 200 mer be minulutad






## Certificate Program

For sudenn who wihh no complete two dase (minimum) in one year to perpar for employment. A minimurn of 37 unis is required. Cannor be completed in one acadenic yas

| Ach 1 | Introfuction to Arctivectre |
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| Arch 5 | Achitactural Dowing I |
| Ach 6 | Adotiecterai Derwing if |
| Acch 7 | Acthectaral Donwing ili |
| Acth | Archioctiral Drowing IV |
| Avch to | Freehand Drswing I |
| Arch 12 | Achituctersal Rondering |
| Arch ${ }^{\text {st }}$ | Metiods of Conutruction |
| Acth 21 | Mstriats al Coratruction |
| Ach 22 | Equipmert of Bullinga |
| Achls 3 | Beve Acthinetiral Desion! |
| Arch 34 | Batic Actibectural Desion il |
| Arch 41 | Architetoral Mobel Bulding |
| Math 115 | Tectricel Mattemibea Il |

Arch 5
Ach 6
Arch 7
Arch 8
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Arch 12
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Ach 27
Auch 3
Arch 41
Muth 145

Irofucton en Architectire Arech Doming Acchincturai Donwing III Acchhoctural Drwing IV Twhand Drawing Uotopis of Conitriction Mstritals of Coratucition mart of Bulisinge Bete Acthimetirn| Dexign! Architectral Model Buling Tectrics| Mattemutica II

## Architecture - <br> Construction Technology

## Associate in Science Degree <br> Auncietr Drgew prognemr DO NOT comentinutr she firit nee yourr of a program leviling to a hachelor'z degwn.

This peogram is designed to petpate a persen fir ungobyent in the bidd of conamcion inqection and mingganest. Counes in builling inpection and bailing conseructioa for booh govemment and peivate induury offer many atracive poentila. For Graduation Gencral Fdocation Subject Requirmenth Sow Pan R


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'Hath 240 mg le rahtivint




## Certificate Program

5 Sidens who wiht to complere clanes in obe gar to propare for enplofment A minimum of 32 uribs is tequinod. Cannot be completed in one acrulenic yes.
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## Art - Fine Arts

## Associate in Arts Degree

## Asveciate Degre programy DO NOT nexuserily comatimate the fint how

 ynart of a program lnationg te a hecheler' degres.5 sudents willing to panse an Ansciuse in Arts Degree under Gradarion Plan B make complete a minimum of 18 unitr in Gencral Fducation at required in the Collgere. In addition they mur complete a core program of Basic Art Courses, and a program in depth chosen from one of the Ant Concentrations listed below. An Anociare in Arts Degrec in Fine Arss would, bherefoes, typically inclule the following

meoumel mase art COURses:
An 101, 102, 201, 202, 501, 502 IB Units
CTRMES DESEN CONCENTMAHON
An 700, 708, 709, 710, 711
18 Unim
meth and jowayr oesnon concentunon
Art 721, 722,723,724,700,708 18 Unia

## SCULPTUAE CONCENTMTION

An 700,701.702.708, 20418 Unis
Qenwns concentumion

$$
\text { An 204, 205, 206, 209, 300, } 400 \quad \text { is Units }
$$

munting concenthation
Aet 300, 304, 204, 209, 305, 205, $400 \quad 21$ Units

## pawtmakowa concestmanow

$$
\text { Ast } 103,400,401,403,405,407 \quad \text { I8 Unin }
$$

Srudentu wihing to surney a variety of tnditional att media may clect the Solowing counce of nudy:

## sumve of Aet counses

Art 204, 300, 400, 700, 721, 708
18 Unim

## Art - Graphic Design

## Associate in Arts Degree

Asociate Drgrer prognam DO NOT mecmarily amministe ale fint hee yearn of a prognem loading to a hachelor's digge.
This progras is planond for nudense who expect to make atrertising ant of proplic deign their vocaion. Sutifactory completion of the coone of andy beliow leadr to the Ausciatr in Atss Detgon.

| FIEST SrMEster | Leits |
| :---: | :---: |
| At 281 Drwing! | 3 |
| At 501 Beginriog Two-Cisensional Design | 3 |
| Atti] Graphe Design | 3 |
| H1534 Graplic Communications! | 4 |
| Winent Eturation | 3 |
| second semester |  |
| 'Art ties At Apgrecintion I | 3 |
| At515 Sruphie Commurications If | 4 |
| At 6 B M Mutration | 3 |
| ${ }^{1}$ General Edication | 6 |
| TMIED SEMESTER |  |
| At 618 Graphic Commuricatoon Ill | 4 |
| Ats21 Itatrition | 3 |
| ${ }^{2}$ AtBactive 3 |  |
| Heneral Efucation | 6 |

FOURTH SEMESTER

| Art 617 | Braphic Comouricutiona IV |
| :---: | :---: |
| At 62 | Eastrstion for the Oraphic Artist |
| At Elect |  |
| ${ }^{\text {P/ Oneral }}$ |  |





## Certificate Program

This program provides rpecialitrel training in Gaphic Communications for emplogmest A minimum of 97 units is required

| At 201 | Orwing 1 | UMTS |
| :---: | :---: | :---: |
| At 501 | 20 Desion | 3 |
| At 502 | 30 Design | 3 |
| Att513 | fruptic Deifon | 3 |
| At 614 | Braphic Conmankestions 1 | $t$ |
| At 615 | Oraphic Commuitations Il | 4 |
| At510 | Eraphic Commerications ill | 4 |
| At67 |  | 4 |
| Antem | Tustrutos | 1 |
| Att21 | Trustritiontil | 3 |
| Atte22 | Purtribon for the Sraphic Desiger | 3 |

## Business Administration Accounting

## Associate in Arts Degree

This progras in designod to pecpare a madent for ancy ints the buiness comminity at aa acoounting clek or a middlemaragemest traince. It will provile the ohacational hackground for peparing the snobent is fillill the necch of butiocs in maintiining reouble, financis controb, and prquing infivemationd eppors for management decivion-making popcoses and for governmental requiranente.
Typical Powitione bowkepert, sccouating desk, anhitant andine, fifuncial analyot, proprictot.


## ADOITONAL GENERAL EDUCATONREOUIREMENTS (12 UNITS)

 SEE GRADUATION PLANB| Natiral Sciencen | Imits |
| :--- | :---: |
| Huratits | 3 |
| Healh and Phyical Educrion | 3 |
| Sccial and Beherioni Sciencen | 3 |

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'Off Adm 32 ment Languggr aed Retianaligh (DI) Gmend E. furation myuinmere
 nywimment
Asociate Degre prognimy DO NOT nevmarily camatinute alie fint heve yent of a progiow looding to a haurhelor't digres.

## Certificate Program In Accounting

This porgram is denigned to prepare a itulent for entry into the buinem coemuniry at an acowinting tiaiseffict er fie the itudere who wishes to become a propeinot of a mall bevinos. The pogram pronider the winimum ehburional harkpomind for propuring the mivetit in underitanding the neede of bevinever is mainsaining records and firuncill contobls and preptring finuncisl everes for docition miking
Typical poritions indude acxourting cletkúraince, bookkeppes,
anditor/tringes, financial analpu/traines, imall buioca poppiene

## HEOURED AREA SUBFECTS

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|  | Ime Accourtiog I | 3 |
| Actiol | Pryolll Actoritiny | 2 |
| Bat I | litrodetion the fixines | 3 |
| Bat5 | limess Lan! | 3 |
| Offidn 32 | Butress Cominuricatis | 3 |
| (ir Ader 7 | Micsucsmpiter Actig Aeplications |  |
|  | for fe Bectronic 05ice | 1 |

RECTIVE AREA SUBUECTS (9 UNITS MINIMJMI


## Business Administration Agriculture

## Associate in Science Degree

 ynun of a program lieding to a buchelor's d/giv.
This progran is deipmel to offer indener the eppormuiry so cam a degrer in Agricultine-llusincs:
HEOUIRED AREA SUBUECTS FFOM TRE BUSINESS DEPARTMENE

|  | UNTS |
| :---: | :---: |
| Accounting 1 | 5 |
| Butionas I | , |
| Markithy 1 | 3 |
| Marapenent 13 | 3 |
| Meviring 21 | $j$ |
| getice Adninistration | 3 |
| Prance 1 | 3 |

## REOURED AREA SUBJECTS FROM TRE AGRICULTURE DEPAFTMER <br> Ant 23 units from the Aricutirt fopstrent <br> E1ECTIVES <br> Any courses arproved by wither departmert chains of Agricultire or Businen. <br> Business Administration General Business

 LNITS 휼 LWITS
## Associate in Arts Degree

Thin program is delignad to prowide a hmad fivmal busines elucation for those sudents thinking of staning their own buvioest It powides grat laciuke ie counc idection to allow mulests to tallor the program to their goale

| RECUIRED AREA SUBJECTS |  |  |
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| ${ }^{\text {Actacta }} 1$ | Irtroductory Actourting I | ${ }_{5}$ |
|  | \% |  |
| Actr 21 | Bootiveping and Aecountiog 1 | 3 |
|  | nes |  |
| Bus 1 | Introduction te Butines | 3 |
| But5 | Ousiness Law I | 3 |
| Mgnt 2 | Organization and Manugemert Theory | 3 |
| Monet 13 | Smal Buthess Mevopronet | 3 |
| Merint 1 | Principles of Selling | 1 |
| Mariat 11 | Fundenertals of Adveriting | 3 |
| Markat 21 | Principles of Mateting | 1 |
| [0ff Amin 32 | Burness Communicators | 3 |
|  | Mierecompiter Schnute Sirvey in te OHice | 3 |
| ELECTIVE AREA SUBJECTS (15 UNITS MNIMUM) |  |  |
|  |  |  |
| Frience 1 | Printiples of Finance | 3 |
|  |  |  |
| Firses ${ }^{\text {a }}$ | Prinonal Finsute | 3 |
| lat Bus 1 | Intursational Trafe | 3 |
| Mant 5 | Patic Arlaters | 3 |
| Ment 31 | Human Relatioss for Enployess | 1 |
| Mont 33 | Pertocnel Managemet | 3 |
| Market 31 | Retal Merchanding | 3 |
| Real Et 1 | Peal Extrse Pinciples | 3 |
| SupV1 | Elenerts ef Sugervison | 3 |

ADOITONAL GENERAL EDUCATION REQUIREMENTS 12 UNITSI SEE GRADUKIION PLAN B,

| Natural Sciences | UNIT\$ |
| :--- | :---: |
| Humanities | 3 |
| Health and Piysical Education | 3 |
| Social and Behrisral Sclences | 3 |

[^0]
## Business Administration Management And Supervision

## Associate in Arts Degree

This program is deignod to meet the neebh of 1) employed penons deviring to prepare for supervisory posinions, and 2) sipervion and oher managemens personned who widh to gin knowledge which will exalice them cither to perform their dutien more effoctived of to advanct toe mort moponitle position. This coance of study was developed with the asimance of the Bexines Advivory Commituer asd recommended by the Buactu of Indurrial Education of the Calfomin Sare Deparmest of Education. Those coune appliod towands the Supovisory Managrment Certificate ave aloo applicible for this Doper
Typical Posirions Various mupervisorial and managrial positions in the indutrial and commercial communing


## ADOITIONAL GENERAL EDUCATION REOUIREMENTS (12 UNITSI

SEE GRADUATION PLANB.

| Nubural Sciencer | Utills |
| :--- | :---: |
| Humanities | 3 |
| Hesth and Phyical Educution | 3 |
| Social and Behavional Sciences | 3 |

[^1]
## Certificate Program in Management and Supervision

This Cenifiare Program was doneloped in coopention with the Berinas Administration Advisory Commitrex. It is detigned to give ipecialized triining for uperviery management penonnd. All of these conner may be used to apply towand the falfilment of the ruyuirments fir an Asociate in Ams Degrex in Superviory Maragement.
RECJIRED AREA SUBUECTS

| Mget? | Ormertrion med Mors | UNTS |
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| Mgnt 31 | Human Rolutiona for Erplopes | , |
| Myers 3 | Pertomel Mantoinert | 3 |
| Mshet 21 | Pricipler of Marieting | 3 |
| OfAdn ${ }^{\text {a }}$ | Meroconguter Soltumere Sunver in the Office |  |
| Sipl 1 | Elemerts of Supevilion | , |

ELECTIVE AREA SURUECTS (12 UNITS MNIMUMM)

|  |  | UNTS |
| :---: | :---: | :---: |
| Dus 1 | Introdurtion te Basiness | 3 |
| Bors 5 | Business Law | , |
| Finace 1 | Principles of france | 3 |
|  | or |  |
| France: | Pertanal Pinunce | 3 |
| Mast 0 | Patic felutions | 3 |
| Myet 13 | Snat Bushesa Manapanen! | 3 |
| Market 1 | Pinciplet of Selling |  |

## Business Administration Marketing

## Associate in Arts Degree

This proyam war developed to prepare suilenta to enter the booad aran of markrring for the bexineu enterpric. Upon succenful oweppletion of this propram, the uxdent har a background ins rhe prindiples and practices innolvad te the diumbution of probures and sevices from postucen thaogh middemen to the ultimate consumes. Curerr oppontunition indale sile, advertiang, putlic relacios, pucchaing and managrnent.
Typical Ptaitione Renil, wholeale asd inhutrial sles, buyer necthandining mperviaion propriatos.
MEOUIRED AREA SUBECTS


EIECTVE AREA SUBJECTS (15 UNITS MINIMUM)

|  |  | LNTTS |
| :---: | :---: | :---: |
| Int Bus 1 | International frate | 3 |
| Mpot 2 | Oryaniration and Managanest Theory | 3 |
| Mget 21 | Huanan Relatoes for Einployees | 3 |
| Merket 31 | fiutail Merchandising | 3 |
| Sup 1 | Eymerta of Superition | 3 |
| Coop Et | Work Eaperience | 14 |
| Int Bus 6 | International Martefing | 3 |

Asoriatr Degree prognew DO NOT mevenarily cometitule she fint thew jears of a progrem lealing to a hachelar') degwe.

| Naturn/ Scientee | UnIS |
| :---: | :---: |
| Humanios |  |
| Healh and Plyaital Education |  |
| Sacial and Rehwriont Sciences |  |

 mydirmest
${ }^{2}$ Antge 1, 21, ment Lerpuge an/ Remienaling (D2) Geomal Bhomint Repaicmest

## Certificate Programs In Marketing

This Cert太cate Program was derdoped in cooperation widh the Markerting Atrisey Commirier, It is devignod to provide an in depth aposane, to the fields of Marketing leading to employment. These counes my be med to apply sowand ehe filfilment of the mepuirements for an Asociite in Atte Degree in Maluring Managenent.

## REQUIRED AREA SUBJECTS

| Bus 1 | Suction to 8 er |
| :---: | :---: |
| Matut 21 | Principlet of Morking |
| Off Adm 32 | Butives Commuricatons |
| Mariet 1 | Princlelas of Seling |
| Martat 11 | Fundemartals of Advertiong |
| 0\% AJm 32 | Microcompler Sehwurs Surver in the Office |

ELECTIVES/GENERAL MARKETINS CERTIACATE (12UNITS MINIMUM)

| lnt Bast 1 | Itremational Trade | Uwits |
| :---: | :---: | :---: |
| Mynt2 | Orgunitaion and Managenent Th |  |
| Momit | Pudic Pelations |  |
| Mgnt 13 | Smil Burinesu Mmagonent | 3 |
| Mont 31 | Hhain Relutions for finployes | 3 |
| Merter 31 | Petal Merchanfiting | 3 |
| Cooped | Wort Eperience | 14 |
| letbur5 | International Mariuting |  |

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# Business Administration Real Estate 

## Associate in Arts Degree <br> Aseriate Degree progamu DO NOT mmonerily comstinute tle fint hev yeerr of a progam /naling ta a haviveler's digyen.

The following porgram was preparel in cooperution wihh the Pierce Colloge Real Esure Athiory Commincer in onder to provide a course of nudy fot perwos who plan so $p$, into the variour apects of the Real Pitate Indutr): Those couner applied towand the Ral Bitate Cetifficute ate aloo applicable for this Degre.
REQUFRED AREA SUBJECTS

| ${ }^{\text {a }}$ (ctit 1 | Iftrotuitioy Attounting 1 |
| :---: | :---: |
| Pua 1 | Introdaction te Batines |
| Bus 5 | Bunioses law |
| Mriet ! | Princople sf Seling |
| Ruse Et 1 | Real Estate Pincipler |
| Mani Es 3 | Real Eratu Praction |
| Real Es 5 | Legal Aspects of Rodel Erate I |
| meat tat | fled Emati Finance I |
| Rewl Ex9 | Paxal Etrite Aprrinal |
| Encow 1 | Findanentela at Extrow |
| Oflidn 22 | Bethets Commanitutions |
| 9tadm ${ }^{\text {c }}$ | Micipcamputar Solware Sirvey in the Otfice |

## AREA ELECTIVE SUBJECTS (14 UNITS MINIMUM)

| Aceta 2 |  | UNITS |
| :---: | :---: | :---: |
| ${ }^{\text {Aceat }}$ | Bathastary Aetominting II | 5 |
| Finance 1 | Pinciplet of Finance | 3 |
|  | or |  |
| France 1 | Perssnal Finance | 3 |


 mpiement


## SALESPERSON'S UCENSE

EDUCATONAL REQUIREMENTS:
Real Eatate Principlen (Real Es I)
Within 18 montha afier ismunce of likenve, 2 addivional 3 -unit counes finm the following

| Pral Es 3 | Beal Estate Pructices | 3 |
| :---: | :---: | :---: |
| Real Es 5 | Logal Aspects of Aral Eatum I | 3 |
| Aral Es 7 | Real Eatia france I | 3 |
| Real Eas | Real Estate Apprainal | 3 |
| Real fall | Property Matojenert | 1 |
| Rasal Es 21 | Real Eatate Ecunorica | 3 |
| Abetg 1 | Introductory Accourting I | 5 |
| Bus 5 | Butinest Lew I | 3 |

## BROKER'S UCENSE

| EDUCATIONAL REOLTHEMENTS: |  | UNITS |
| :---: | :---: | :---: |
| Rasal Et 3 | Real Eatese Practicts | 3 |
| Peal Es5 | Legal Aspecta of Real Extaty I | 3 |
| heal Es 7 | Aeal Ertata Financel | 3 |
| Real Es | Meal Errshe Apprnian I | 3 |
| Real Es 21 | Real Estata Econamits | 1 |
| Ascto 1 | Irrmedvetary Accourting \| | 5 |

AND 3 couns from the following group

| Ben 5 | Bushens Iaw |
| :---: | :---: |
| Rand Et 1 | Real Eitute Principles |
| Band Es5 | Legal Aupects of flad Estrite Il |
| Paxal | Real Eatate Finance ill |
| Feas Es 10 | Real Eitate Approisill |

## Certificate Program

This program war developed with the cooperation of the Nere Calloge Ral Esate Adriung Commitres, A Certifiate of Completion will be amanded epoo the catifactory completion of 24 units as indicued below. This program giva a xeeyras in-dipd eponure into the fidd of Real Eirate. These counco my alop be applied nowarth the A suciast in Aets Degert in Real Erate.

| REOUIRED AREA SUBJECTS |  | UNTIS |
| :---: | :---: | :---: |
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## Child Development

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CORECLASSES

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## Computer Science

## Associate Degree Programs

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 the fint two yans of a hachefor' dopere pmgam hould comelt a membec of
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The department effers three areas of epecializone at the anociate dogrec leve. They are Frogramming for Buincs, Frogramening for Compener Sdence, and
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## PROGRAMMING FOR BUSINESS

## Associate in Arts Degree

Amariatr Drgre prognam DO NOT mevesarily comutinute tier fint nee jnan of a program inding te a harlvier' ' dogers.
Garnolum prefues uadent in 2 yeas to cerer iob matior an a buisess programes.

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CORE COURSES
REST SEMESTE units
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## Thise semestes

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| FOUTTH SEMESTE |  |
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Iec Caraloge Ginduation Pian B. Ser Perce ooxordor for advisencent. ${ }^{3}$ Satisfies Genenl Education requiremen, Fhan B-D2
 (Compuer Scimer S76 er Cemputer Siiner 579)

 Pmive

## Certificate Programs

Prerquinitert Manh 115 er awr joer of high aluol alovier nition a grule of $C^{\prime}$ 'er hener
A minimann of 12 unis must be aken in the Computer Soienee Depannent at Ficre Collep: widhin the last 5 yam.


CERTIRCATE $\mathbb{N}$ PROCRAMMING FOR EUSINESS


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## PROGRAMMING FOR COMPUTER SCIENCE

## Associate in Science Degree

Assariate Deger prignum DO NOT neconarily cunerinute ale fint ans jears of a prograw Ledingt to a harkelor't derme.
Orriculum puopara itudent for programining in a technical envirumenest of tuansfang to a 4-year instiuation. See a Fiener counsolor in the firt vemeater fir transer edacsion whviement.
The atadent mant alio contact the manser inainetion is dormine contance lend.




ARST SEMESTER

## UNITS

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Coscisot Inteduction to Programeing 3
${ }^{2} \mathrm{Ea}$ SciS07 Proganming Logic 3 Language \& A Asionaliy, Tieneral Fitucation English Componition) General Foucation

## SECOND SEMESTER

Co Sticse Propramingin C 3

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Phis Symbolic Lopic 3

## THIRD SEMESTE

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> Co Scise Introdecticn to Date Siructures

Math Cit Catulusil
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${ }^{1}$ Generel Edutetion

## FOUTH SEMESTER

| $\begin{aligned} & \text { Co Scism } \\ & \text { Co Scist } \end{aligned}$ | Irtedection to Databusas |
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|  | Advanced Meintrune Assanbly Language |
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 ${ }^{2}$ Senifin Givenl Khative Requirement, Ples B-D2.
Rrommondatioun Proficiency in typing or keybourding
Tichniked Elertion Co Sci S08, 530, 534, 540, 572, 578, 587,
Mah 263, 278.

## Certificate Program

All of thes couno mary ke used to apply towad fulfilment of the mopuirmertis for an Assciate degree in Pagramming for Computer Science.
 temer lirjficatisia mpaind apon mpant.
Completion of the pmgram lited below with a miniman of 15 wempurer science unies taken at Precce Collgse within the lant 5 yean.
CEATIRCATE IN PROGRAMMING FOR COMPUTER SCIENCE

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| $\mathrm{CoSci5t5}$ | Bephning Mainfane Aechactire |
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'SyP Cesalig asne docriprive for perquinite.

## COMPUTER TECHNOLOGY

## Associate in Science Dogree Program

The intent of thit program is to prodoce grahaten with the bulanced knowlel of of handrast and software required to inatall operase, mainain and towithestowt micucomputen, miniemmpuen and computer newwels in a wirity of work envinument:
The nicnoomputer serviee technology cerificane gradutes will be pepured for enry level jobs in microcompurer dealenhips and repair shops, as well as internal mainemunce groups within lager corporations, of as the hasderase epeidar wihhin a progamming team.
Assciste in Science gradiats will be preparal to insall, operate, maintion and troable-thoot wytemi and nerwarla for the aervice divisions of lage compeser mamficture and computer applications orgenirations.



FIST SEMESTER

| $\begin{aligned} & \mathrm{CoSc} 530 \\ & { }^{3} \mathrm{CoScl} 5 \pi \end{aligned}$ | Mirracomputer Application Solhawe Computar fundumertals |
| :---: | :---: |
| CoScis72 | Computer Systams ind Notworlal |
| ${ }^{4} \mathrm{CoSti573}$ | Programilies Centepts for Computer <br> Technicians <br> Geveral Efucation |
| SECOND SEUESTER |  |
| CaStis7e | Microtomputer Archascturs |
| $\mathrm{Cosel}^{\text {Still }}$ | Compoter Syutame and Nerwurlas Hespir |
| CaScise] | Introduction te Local Ares Nutwerks Generlfiction |
| THIRD SEMESTER |  |
| $\mathrm{COSCl}_{585}$ | Lecel Ares Network Mansgenset |
| CoScisy | Wide Aces Nutwok Maragement |
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| FOUTTH SEMESTEA |  |
| ${ }^{\text {T Co Scisu4 }}$ | Operating Symum |
| ${ }^{100585}$ | Computer Nietaort Serice and Support |
|  | Givneral Educaton |
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OP



## Microcomputer Service Technology Certificate Program

This program was developed in cooperation with ihe Computer Telunolyy adrisiry commitree for suadents who sidh so tuke a technial program to propure themides for employment in the computer tuchnology field.
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| :---: | :---: | :---: |
| ${ }^{1} \mathrm{CoScis} \mathrm{\%}$ | Conputer findrontris | 3 |
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| ${ }^{4} \mathrm{CoSc} 575$ | Proganning Conceptator Compater Tectricas | 4 |
| ${ }^{7} \mathrm{CoSc} 597$ | Microcongutar Architucture | 3 |
| ${ }^{\text {Co Sosigal }}$ | Computer Spheme and Ninturis Rapar | 4 |
| ${ }^{4} \mathrm{CaStisy}$ | Intudiction te tocal Aus Networls | 3 |

## Network Technology Certificate

This poogram was developed ie cooperaion with the Compurer Trelandogy thriacy commintee foe undente who widh to uke a lectrical prograns to perpare themsdves for eniplogmeat ia the computer servork tectindigy field.

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Local Area Netwod Managenart UMIS Wide Ares Network Manspemert Intudicton tio Dute Conmanicationa Operating Sptems Compitar Nework Serice ent Sigport 3 $\frac{3}{3}$ 3

ITr Catilog dasriprien fir prompainian:

## Electronics

## Associate in Science Degree <br> Aumciate Drgow prognum DO NOT necouarily comutitutr the fint theo jerr of a prignem loading to a busbrler's digow.

Reporentatives from the elecronica indutry and Pieroe Collegr ficulty have mbiborated to design this course of mudy Completion of thil poogram popurs the madent for employmest as an electronia sechnician.

## TECHNICAL REOUIREMENTS <br> UNITS

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## SECOND SEMESTER

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Eleten BA Eectron Deviser A
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THMR SEMESTER

| Eectrn 28 | Lnaer Circuls |
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| Electinst | Crsut Analpus Lutormary |
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foumth semester
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Fire ablitional detives, ve Elecronia Depirment Chipenone ste Cinthg docipriom for preenquisiter and meopuitites



## Certificate Programs

In collalonation with indurry, the College ratf han deoloped the program as thown helow which lods towad a Certificare in Electronics with a specalisation option in Digial, Conmanications, or Analog electronio. The
 whlh at the completion of 20 unis. If they with, italents may continue their edvcrios and obrain an Asociate in Sodence Degres. To complese the Certificare Phogram, the cone cosines and one specialization opeion muar be complend.

CEATACATE PBDGMAM CORE REOLREMENTS:

|  |  | UNITS |
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| Electre 48 | Folmerals Encruica | 3 |
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| Eleans 68 | Findamentaly of Elocrenica lif | 1 |
| Electom 3 A | Electurn Devices A | 3 |
| Electrs | Eloctrin Devices B | 1 |

## Certificate Specialization Options:

## DIGTAL OPTION:

| Becten 72 | Nistal Cratals | NIT |
| :---: | :---: | :---: |
| - +78 |  | 3 |
| Electrn 72 | tal Circola | 1 |
| Elotrica | Diptal Cricata ta | 3 |
| Eletem 76 | Digita Crivila 18 |  |

## COMMUNCATIONS OPTION

|  |  | UNITS |
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| Bertin 4 | Commuricstots Bectronics | 3 |
| Elettro 45 | Communiestora Bectronica Laboratory | 1 |
| Eecter 5 | Microwswe Fundunertals | 3 |
| Exerm 81 | Microwtua Funtunertale Laberstory | 1 |

## ANALOO OPTION:

| Britm 71 | auc Crouts |
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| Everin 4 | Intapitet Criuts |

## French

The muin objoctive of the Frond progrem in to cralle rhe sualents ma acquire competence in the ability to undentand, peak, read, und write Firsoch and to develop an underranding and approciation of the multiculratal Fienchrpeting wodd
Seudenta are placed in Fiench couner scounding to their jean of previoun andy. In gencral one year of hiph-school Fiench is oquivileser to boe serneter at Nerce, Nuthe peakens ate enorurged to enroll in french 4, 5, of 6.
All Fiench courne are tagetr ptimurily in the languge. However, the intractoe nuy choose to darify cerain coneppes in Englidh when necoury: By the end of the fint yes, atusents are atle to we the bric smucnure of the tinguys and the procical voalulary leamed io convens on evayday nopios, as well as to nead and wrise at an demenary lovel.
French 3 combines widh French 8 (Coneverutional French) wo incicac oral peoficiency and alo coesinues to rise the suludent' ability to mad and write.
In Froch 4,5, and 6, trudents gradually acpuier more cave in opposing, themelves oeally and in writing, Conbinigg a review of gramenar with disumioes and amplyis of literary teats of incrasing difficulty, thec counes pive imdens a broad overview of Francr and Fronch-ypelking countries and peypure them to live abread.
Snudens ae encxuraged in participare in the Invenutional Edwoxtion wimmer or sexsater program of ansfy in Paris offied ly the Los Angelo Comununiry Collope Disinica,

## Career Opportunities

Fiench is adipted to careen in international berinesi or trade, telecommunications, falise, the poumet food indurgs, melival nexarch, international liw, diplomacy and the foreign service, amopuce sachoologk, as well ar in the ats and the himanities.

## Associate in Arts Degree

| REOURED COURSES |  |  |
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| There cruner dowen frum the following |  |  |
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| 45,05 | Aed |  |
| Frach \%1 | French Languspe Laboratory (2 semethens) | 2 |
| French 8 | Comvenatoral fruch | 1 |
|  | Or |  |
| Franch ${ }^{\text {If }}$ | Phaticul fronch for Murlow |  |
|  | Toter | 85or 28 |

RECOMMENDED ELECTIVES:
(These coune can also be applied towands General Educainn noyiemens under Grataution Plan Als Iinguistics is Englith 203, 209; Anthropology 1024, Hatury 50; Art 102, 102: Humatitios 12.13
Also recomenemded. Inemnational buiness 1.

## Industrial Technology Automotive Service Technology

## Associate in Science Degree

Fioulty Alvioce, Bunt Tinchom
Aspociate Degre programe DO NOT mexmerily amutihite alof fint the juars of a prognew lowing to a bachelor's degres.

| Rest sem |  | UNTS |
| :---: | :---: | :---: |
| AST1 | Autamative fingires | 5 |
| AST2 | Sumention, Braten, mad Power Softema | 5 |
| Taeh 15 | Techuical Mathematica I | 3 |
| Heals 19 | Hoakt Elucution |  |

## SECOMD SEMESTER



## THID SEMESTES

AST5 Stunterd Transnimiora, Dutches, Drive Ines, and Difleentifls3
AS I6 Automatic Transnindions ..... 5
AST7 Al Coneforing ..... 3
A ST3 A Atsenoter Serice Trelnciory Proiects tabonatory- Boctricel Crcuts ..... 2
Englah 23 Intersedistr Reesing and Compoution ..... 3

ROURTH SEMESTER
AST 20 Autinotin Bictronic Conputar Coritrol
5 phtums
AST21 Conputar - Compoled Electrovic Fuel3
Ifinction Syatums
AST23 ..... 1AST36 Aumnotive Service Tachnology ProiectsLabortiory - Stundard TrmanisuicntChtchen, Drivilines, and Differertisly/Ar Consfority
Geneal Ebucation1

 Commuriamier and Andyinal Thinling Cinatuetion Gomend Edaconien Rupainmere

## Certificate Program

For endense who wish to complete a minimum of clases in one year to propure for emplogmens. A minimum of 45 unirs is required.
ASTI
Autameben Enpions ..... UMTSAST2 Susponsion, Brakar and Power SymansASI3AsTI
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AST34
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Autsmatc Thantritsiong ..... 3
Al Conffioting ..... 5
Aummetive Eectranic Compitar Coritral Sytrims ..... 3
Computer-Centroled Electronic Foul Iniestion Sytums ..... 3
The Clonn Ar Crer ..... 3Autamotin Senice Technolopy Frojectstatortiony-Causis andSapenaion Syaris
Atonstive Serice Technolepy Propectsteberstery- Bectricsl CiftuitsActumative Service Foctnology ProiectsLaboritory-Stindard Tranmintions,Citches, Drivilnes und DifiernetideyAir Cendfioning
Socter

## Industrial Technology Drafting - Mechanical

Associate in Arts Degree

Fassly Adrisoc: L.W. Hamphirey

## Amsiate Degree Arogname DO NOT mennacrily comatinute ale first hev joers of a proprow linding to a harlelar's drgoe.

This anocine degne preparo the atudent for entry leved employment an a twhipenon in enpinering and mamuferuring induatric, as well as for
 addicon of practical indumrial eqetience, dratipensens may eocnually hemenc deifnen is their chosen ata of concentration, Inclale introducion to and mining in compurer aided drafing

| FRST SEMESTEK |  | UNTTS |
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| hat Tok 112 | Appliea Technical Druting I | - |
| Int Tex 130 | Tetcroiogy of Metal Moctining Procestes ! | 3 |
| Ind Tek 105 | Indwrial hint hesting | 3 |
| Mat 155 | Tectinica/ Mathenstes! |  |
| SECOND SEMESTEM |  |  |
| Ind Tet 212 | Agpled Tectorical Driting ll | 4 |
| गnd Tek 218 | Techrical Descriptive Geinety | \% |
| Ind Tek 20 | Introduction m CMDCAM-Numerical Corrst | 3 |
| Math 145 | Techrital Mathenasisill | 3 |
|  | Gieveral Education | 3 |
| Than SEmESTE |  |  |
| Dectre 28 | Betrosit and Becto-Mechanical Drating\| | 2 |
| Int Tat 10 | Finfomental el CNC Tectnology | 3 |
| Ind Tek 217 | Appled Computer Drating 1 | $t$ |
| Ind Tek 312 | Asplet Techricsi Dratiog in | 4 |
|  | General Education | 4 |
| Foumt seucster |  |  |
| Ind Tek 23 | General Metalley 1 | 3 |
| Ind Tet 317 | Applied Compiter Oriting il | 4 |
|  | General Education | 8 |



Carfully nuly Graturion Phan B under Gradurion Requiremens in be ounce cariog when connidering alcenative Gen Eld coence.
Mddicoal recomenendel counan incluske Att 132, Ant 138, Ind Tok 150, 230 nd 325

## Certificate Program

This orrificase program in deigned for mudents wihing to oseplite anty the trdinial requibements in daffing. No Gereral Educarion courve are indudal is thit thrie ienieser program.

| FIRST SEMESTER |  | UMTS |
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| Ind Tek 112 | Applied Technical Drathing | 4 |
| Math 145 | Tectrics Mehematics I | 3 |
| Ind Tail 105 | Indurvial Piet floating | 3 |
| SECOND SEMESTER |  |  |
| Ind Tek 212 | Appled Techuical Drating II | 4 |
| Ind 7ak 217 | Agplet Computer Drating 1 | 4 |
| Ind Tak 218 | Technical Descriptow Gesenty | 3 |
| Math 18 | Techrical Matematice Il | 3 |
| THED SRMESTER |  |  |
| lnd Tel 312 | Acplied Tethrical Drating lil | 4 |
| lind Tek 317 | Applied Computer Dratting il | 4 |

## Industrial Technology General

## Certificate Program

For suidener who widh so complete a minimam of clases so prepare for employmene. A minimam of 26 unins is roquired. Thia program mary be coemplord in one yeas

|  |  |
| :---: | :---: |
| II12 | plod Techrical Draft |
| IT 12 | Basic Whotworking |
| IT10 | Tectoclony of Metal Mochiling Processes ! |
| $\pi 15$ | Fundaretals al CNIC Tecluelowi |
| IT 181 | Geneni Weling! |

A minimum of 9 additional units mur be coneleved. Yose may scloct 2nd and 3od levd cuune offored in the disciplines lised abone or any counes offerod in Aum Serice Techinking.

## Industrial Technology Numerical Control Programming

## Associate in Science Degree

Fioulty Advizor Ron Sonemer

## Asoriate Dogew programer DO NOT neomarily comutituste ale fint twe juers of a prograw linding te a buedelor's degros

Numerial Control is a sytem (somerimes refered to an CAM - CompatrtAided Manufazuring) using egecially parpand inamacions, devoloped by the N/C. Programmes, mo contol he operation of various manificauring oquipment such as machine trolk, iespection machines, woodworking maclines, lace machines, and nobers. The following aisciase deprect in offerod It the suggotion of ble Ioduatry Alviony Cammintee for Numerical Conembl, General Fincution royuiremenss follow Gaduation Plas B in this caring Coones muy be takm in any nequence as hog as the pretequisites are mex. Seudents mujpring in chis area nuut mote each wementer with Numeriol Contmil faculy NAvinar Ron Smetres

| FRST SEMESTE |  |  |
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| "lad Tek 130 | Teitnology of Meal Mechiring |  |
| Ind Tek 100 | Findanertals of CVC Techrology |  |
| Mint 145 | Tectrical Muttenstict II |  |
| The abown | Jriovide entry livel enploymert oppernimiter |  |
| SECOND SEMESTER |  |  |
| Tnd Tet 230 | Technology of Motal Mactining Processen Il | 3 |
| Ind Tek 24 | CNC. Proyraning and Machine |  |
|  | Operation-Leso | 3 |
|  | General Efucaton | 3 |
|  | Eectir |  |
| THED SEMESTER |  |  |
| Ins Ter 202 | Irteoduction to CADCAM - Numericel |  |
|  | Contal |  |
| Ind Tat $2 \times 0$ | CNC Progranning and Machine |  |
|  | Opertion- Mil |  |
| Fattat 380 | Technology of Measl Machining Procernas ill Netural Science |  |
|  |  |  |
| FOUHTH SEMESTER |  |  |
| ${ }^{15} 98 \mathrm{Ef}$ | Usdatrial Techoolony Course |  |
|  | Languaga and flationlify | 3 |
|  | Eeneral Esucation |  |

 mabinate ind Tit 112.


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Ther Adhier for proper shative to ampliter mploe
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## Certificate Program

The Certificue Program is devigsod for mudents wahing to complete ooly the techrikal mepuitemenes of the Numerical Control Programming Avocuatr Degee program, eccure enployment, and porikly complete the Numerical Crutel Prognmming A mochtre Deger while emploged and atending Pience Colloge part rime. It is aloo deignod to crable drating, voel deiph, machine bhap ind ocher majon to wecure cerificarios in Namerical Programming as a second area of experive. The notes applying no the Asociase Degee apply aloo to the urnificat program. Couner may be cuken in any sequence as long as the
 entry livd employment puckags Seadens working on this cemficate progam must mert each semesver with Ron Smetres, NC faculty Adrivos

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| Ind Tek 100 | Finduments al CNC Thetn |  |
| The ntove | des a ptuille estry level enployment pathas | 13je) |
| Ind Ter 20 | Techoloty ol Metal Mactiving Pracesies ! |  |
|  | Intoductionto CAOCAM | 3 |
| Ind Tik 24 | CNC Progrenting and Machicy Operation-Lathe | 3 |
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iser Adicier for pmosr idhtium to complete mgier
Credit By Examination
Soulens may enter the program as a leed appopprime to deir peviour indurrial epertioce and trining Soe Codit by fum Puliciesin this caulog

## Industrial Technology - Welding

Facilry Advisor Burr Tinchero

The Widding proeram will poovide intenive vecational trining in all avamen types of wedling The stadent has the epporturiiy to purpare for cutification
 cam a Cerificue of Completion.
Manipulaive nee foe Ios Angeles Cay Wodding Cenification is maildle for wolding andents and the general public. Contact Widding inurnacor for deult

## Certificate Program

For modente who with to complac a minimum of duses no propuse for emplogment. A minimum of 33 uniss is required.

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## Industrial Technology Woodworking

## Faculy Advien CH. M.I

## Certificate Program - Woodwork/Cabinetmaking

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| :---: | :---: | :---: |
| Ind Tek 220 | Machine Woodworking | 4 |
| Ind Tek 300 | Cabinetmaking a | 4 |
|  | Miwork Technology |  |
| Ind Tek 302 | Pairting and Frishing | 2 |
| Ins Tricte0 | Fumiture Repuir and Refninh | 2 |
|  | Menagement 13 | 3 |
|  | Office Adrinistration 71 | 3 |
|  | Meruling 1 |  |
| Ind Tek 112 | Brating 112 | 4 |
|  | Total | 20 |

## Italian

The main objoctive of te Italian program is so enable the seadens so soquite comperence in undentanding, speaking, mading and sriting the Inlian linguage. The cobjective of the program is aloo to deviop an undentanding ind apprectution of हe culturt, himary and liseraure of tuly.
Soudente are placed in kallin counes sconeding to their previous sudy. In general ane year of high-khoel traliun is equirabent to cone semostr at Pierce. Nathe pobern ate encourspel to emmell in fallan 4, 5, er 6.
All Intian counso ate tanght primurily in the languge. Howeve, the inatrucior may choose to clarify cernin moceparin English whes necourrs: By the end of the fins yeat, modents ane able to use the haic anscure of the language and the partics wochulary leamed to comene on neryly topias, at wel an to read and witie at an elenentary level.
Italian 3 comhines with fralian 8 (onevenational talian) to increse onl proficiency and aloo contimuse to nise the undena ablity to read and write.
Is Intiun 4, 5, 6, malens pradually acquire mote ease in expresing thempdves orilly and in writing. Combining a rovicx of grammar with divcusion and andyis of lierary trata of incocasing dificuly, these counse give ifudens a bond orrview of laly and the latian people and propare trobents on live abroal
Studenes artencouragod to participunt in the Internutional Bducuion nummar or senester program of mudy in Forance offered by the Los Angros Community Cellepe Diuric.

## Career Opportunities

Inliun wili enhance careen in internucional busines or trade, fation, molial mearch, the poumer food industry falim in enpecially deciable for salents of cauic or opern minik, ant and lumunities.

## Associate in Arts Degree

MEOUMED COURSES

## UnTS

Three counes chosen from the following

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| Italien 1 | Comerstiondi itilan |
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## RECOMMENDED EECTIVES:

(These counes can alo le applied sowardh General Educrion requirmenth under Ginduation Ilan A) Linguistias 1; Engliah 203, 204: Hiancy 50 t Anthopolagy 104, An 102, 103, Humanitiar 12, 13.
Also recommended Internuional Buines 1.

## Journalism

## Sr ala Phenjounnation

## Associate in Arts Degree <br>  juern of a program leailigg to a hacheler't dogres.

This program was prepared with the cooperatioe of the Firece Collepr foumalim Advioory Commitres, made up of proferiocalt from the peim mola asd frum broadoseing and from public mlations. It it doienal for undens who plan to enser chose proforions affer rwa years of culiges. In atition to the A.A. dquee, a cenflate of achievenent ai a pournulium major in awarded to the andent upon groducioe.

## REDUIRED AREA SUBNECTS

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| Journat tor | Sociar Valoes in Mass Communicasions | 3 |
| Joumel 101 | Colecting and Whiting Niows | 3 |
| Joumal 3 m | Adennced Newtwring | 3 |
| Joumal 28 | Copyresing and Hondine Wising | 3 |
| Jumal 218 | Practicel fiding | 13 |
| Phate 10 | Buginning Photigruphy | 3 |
| Phate 28 | Begining Photipurnslyn | 4 |

AREA ELECTIVE SUBJECTS (S UNITS MINIMUMI AECOMMENDED ELECTIVES

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| Cobe Ed | Cooperative Edvcation | 3 |
| Englah 101 | Collepe Reneling and Composilion I mader | 2 |
| Engliah 23 | Intermedizts Reading and Comperition | 3 |
| Efigish 102 | College Rasioy and Conpesition II | 3 |
| Journal tos | Atticle Whiting | 1 |
| Sournal 217 | Putlicibon Libormory | 2 |
| Jounal 219 | Technipoes for Stall Eftorn | 1 |
| Journal 220 | Megasine Efting | 5 |
| Phots 11 | Advanced Phoungaphy | 4 |
| Prese 12 | Advanoed Photagraphe Techricues | 4 |
| Phots 15 | Fundamartal Connercisl Phetograghy | 3 |
| Photo 17 | Intusdection ts Color Piotography | 3 |
| Phote 21 | News Fhotography | 4 |
| Prota 27 | History and Aestetica it Postography | 5 |
| Pib Rel 1 | Principles st Pable Relations | 2 |
|  | Shorthand lanyl | 3 |
|  | Jypewting (in) | 3 |

[^2]
## Languages (Modern)

## Associate in Arts Degree

Anociane in Ans Dryue poograms in the d.ffermt langages ane lised eparatly under the following headings:

American Sige Largugy<br>French<br>Intian<br>Spaniah

The Aasciate in Ars Dqgror in languger may be usod as undergraduate peeparaion for transfer to a flocculaurcise program at a four-yer institution. It can aho erve as proof of demonitrated competence in another langupge, asd
 translaing, reaching and govemmen. Another languge aloo provider viluable backoond for those punuing stadies in ant, muric, cinema, titeraturs, and hintorg.

## Latin American Studies

The cuniderable valar of an undentunding of Iatin Ameria in genenlly evident todus. The Latin American Stuties Program offers a boxdd and texible intentivipleary approach dosigned to prowile a compechensive underatanding of Latin America. The cerviculum leales to de Ausciste in Arss degree with a major in Lasin American sudies that tramfers to private and public fown-yar soliggal and univerities:
This mapor cis loat tos casers is gremmens, fortign service, trix. isternationul busines, journalnm and many obher fiedt affer obeaining the

The followigg aras of kowlelfe ar contral to the Awsciate' doper in Larin Amerian midec:

- boowlofge and undentunting of the majoe historical, cultural, social, politial, and econonic pmoliema facigg the Latin Amerian community
- Lowololgr of chid hiveotical ficturs that pue rise to existing inutinutions and procrise
- an informed mamess of li waur, am, and mank ib tain America, iscloding familiariy widh the wock of everal reagniked Latin Amerias atiaus and athots
- In addition, tuadens a pleting the degrec io Larin Amerian undia ocectporat io acyuir
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* the ability so engary in thoughuil dialgguc abour Laris America with edocinol Lain Americans
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al the ditity te communiane oompetmely in effetre Englith prose.


## REOUREMENTS FOR ASSOCLATE IN AFTS DEBREE

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1. Damonitniat puofidecy in Sputht tumenfut comptetion of Spuniah 4 or highec, Spanith 101, and Spuribh 271.
2. A noral of 24 houns from derignatel conases of thee 24 hourn, 9 mut be in the ara of rocial siencen (Hisory $5 \& 66$ and Spanich 10) and 6 in the uras of humanitio (Gpinith 12, 15,25, or 20f with the remaining' in Squanibh puoficieng counes.
3. In addition, studenn muy dect to take sone of the bradth counes offiend in the collegr inclading Asthopology 102 and Geography 2 or 10.
4. Latit Amscrican unaliss majins ine erroegly encourgned to include a maty abroad semosice or nummer in their academic program. For fiumher ieformation coecerning these programs abroad, comract Dean Paul Whales in Academic Affairs at 719.6444.

## Associate in Arts Degree

## REOURED CORE CUPRICULIM

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## RECOMMENDED BREADTH RLECTIVES



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Snod man are exconappd to inclale a sendy ahroad semewer er mimine in their academic pmegram.

## Faculty Advisors

Phof:Thomas I ODRe Thone 71)-6652 Facully Office 3104
Thot Sheila Williams Thooe 347 -0551 Facily Office 3001

## Liberal Arts

## Associate in Arts Degree

Asaciate Drgee programe DO NOT secousrify comutihute the first hew

This program is doiprod for suaknes who hane not yor docilod on a major
 cumplete at loan 30 semoter units of generil education mequirencous at lintal in Cintuation Phan A .
In adifition, If semester units of deproceapplicalle courso ane noquital. Thes muy be ralen in a vatieny of subject arcas. $A$ woul of $(0$ units are requird for the depere, of whinh 36 mist le CSU unsofordle:

## Music

## Associate in Arts Degree

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This puggan ir designod for mndents doining de Asocius ios Ans Degres in Maric. Snalous planning to tunfer ibould connit with a councolor regeding
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| :---: | :---: |
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FOUTTH SEMESTE
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## Nursing

## Associate in Arts Degree

## Ameciate Drgne prognart DO NOT smomarily canaritute aliv fint hive youn of a prognom londing to a hacheler's degme.

Los Angeles Fierce Colloge offon an Awocite in Arss Degree Nuning Program accoeditad by the Californis Boord of Rogitered Nuning and the National lengue fie Nursing. The gralune is perpared to function as an entry leved mune. Upon completion of the procribed curricalum, the gnduate is qualified to aphly for licrnume as a regirend mane in the Sare of Calformin.
Nuning iradents rexive dinikal experience concurnendy with dawnom inatruction. Nurning faculy trach and erpervise dinical experiencrs. Local bopitals and ocher helth yencies pmoide the dinical ficilikes where mudens under uperviuino adrieititer direct nusing cate to patients. Seodents must provide their oen manquertation.
Soudents must fint be almittod into the Naring peogram before they may tuke nuning counes. Desils are avzilable in the Counveling and Nurving Deparments.
The following prograins aze aloo anailable for qualified indivitumb secking caroct maditity: LVN-m-RN, LVN 30 Unir Option, Transfer and Challenge opcions, and livecing Nise Graduate placement. These programs poovide a antifiate if completion or an Anociate in Arss deyee wiht a majer in Nuning See the Deparmest of Nuring for derijed information.
Artions of cimpleted coenework fiom this program may be applied towand the aminment of a bachelor's degrex in maring Soc your cosindor for advice and informurione.
Students must complese all of the following general educction requitements prive is evering the program:

## GENERAL EDUCATION

## UNTS

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Gineral Pych
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| FAST SEMESTER |  | LVITS |
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| Nursing 400 | Fundamentals ef Nirsing | 4 |
| Norsing 408 | Preparition for Drye Therapy | 1 |
| Nersing 409 | Gerontic Nursing | 3 |
| Norning 458 | Mertal Hoslth Norsing | 1 |
| Narning 481 | Ciert Cars Seminar I iopbienall | 1 |
| SECOND SEMESTER |  |  |
| Nursing 43 | Medicel-Sugical Murning I | 5 |
| Nursing 405 | Psychistric Nursing | 4 |
| Nuring 424 | Cient Care Sening II Ioptioralt | 1 |
| THARD SEMESTER |  |  |
| Nuring 404 | Maternity Mursiong | 4 |
| Nursing 405 | Medical-Surgical Nursingll | 5 |
| Nursing 44 | Cient Care Seninar lili isptional | 1 |
| FOUKTH SEMESTER |  |  |
| Nursing 414 | Medicel-Surgieal Nursing ill | 5 |
| Nursing 455 | Pudatries Narsing | 4 |
| Fursing 441 | Hiatsry, lituds and lswes of Nursing. | 1 |
| Nursing 417 | Cipnt Care Semikar TV logtionst | 1 | Goneral ehuatioe requitennent may be atified as IAPC or by equimlent couner dicwhere. Healh Elucation ía not requited for Nuring urudents. For funter information croceming coune planning cseract the Counseling and Nariog Deparmenta.

## SRADE REOUREMENTS

All muning counec mant be completed with a grade of "C" or benee. The filowing reqpired nom-nuning couree must aloo be cumpleted with a grade of
 Socinhgr/Anthmpologe, Numition and Spocch.
Specific program policier greeming grading, withdrwal, roadminion. proarion and dismimal ate anilable in be Nuning Smudar Handlook and finm the Department of Nutring
The Calfomia Boasd of Repitcred Narsing may deny a licme regulaud by te Byines and Thoferional Code, Secrion 480, on why ground ae boigg eurviond of a crime, ach of dibknory, fraud or dexcit, ctc Applicaser who here quorions mgaring timiutions entiral io ficmuire thould onotact the Bound of Regisered Nuring

## Office Administration General Administrative

## Associate in Arts Degree

Anociatr Degrer prognem DO NOT necesurily cenutitute the firt mev yer of a program londing to a hacheler'' degroe
Soktent may abain an Asociste in Aro degree in Office Adrninitration by espleting the counse shown in the following cerrificat program AND by unifying all the trecuitements shown in the oullege catalng ender Gindhation Fonpinmentr and Cinducion Plan ${ }^{1}$

## Certificate Program

The Gescral Adminiatative Program prepurs mudents for employment in buiscos gremment, and edocational offices using atumuted gpyems and
 ue of mmpore-hused wood procening, pradibect, dua buc, and aconunting sfinat progamu in the performunce of office functions. Completion of thit pryam embles the sudens no qualify for intermetiane office positions and lon the foundation for enery into office manapment positions.

## PIAST SEMESTER

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GH Adm 34 Business Vecabelary and Spelling
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## Office Administration Legal Office Procedures

## Associate in Arts Degree

 ynurr of a program leading to a baccheler's digm.
Studener may obtain an Aucciate in Arss dogote in Office Adminiestaion by complering the couner thown in the following certificart program AND by atioging all the iequimentu shoen in the colloge canalog under Geaduation Requirments and Grabarinas Pan H

## Certificate Program

The Legal Phogram propars mudenes for emplogment in a legal office. Emphais is plared on the devclopment of langrage ikils, the spelling and meaning of lepal terminologg, and the proparation of legal procereding and catec Fxtmine instracion in whpurct tacet wod procesing programs and aprications along with an introdaction to other mmputeriaed office finctions popares mudens to checin a position in an automusol legal office.

| RRST SEMESTER |  | UNTS |
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| Off Adm 31 | Butinasr Endlah | 3 |
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| SECONO SEMESTER |  |  |
| Accto 21 | Bockesping and Accounting I | 2 |
| Off Ams 8 | Morosomphar Office Aoplicatora: Word Procstsing |  |
| 20tt Adm 76 | Hemen Peolstors in the office | 3 |
| Off Adn 8is $^{\text {a }}$ | Marocomputar Olfice Applicntions: Operating Sytums | 1 |
|  | and |  |
| Of Adm 92 | Conputer Applications Whdows ar | 2 |
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## Office Administration Professional Secretary

## Associate in Arts Degree <br> Anaviate Degre pregrume DO NOT necunerily cemetitule che fint hie yours of a progrum inding to a burbeler' dergus.

Seadents may obain an Asociste in Ams degre in Offye Alminiuration by completing the conene shown in the following cervificate program AND by uritfying all the requirements shown in the colloge caralog under Graduation Anquirnvins and Graduation Pan R.

## Certificate Program

The Proforional Secterary Progam puepurs imalents for mperisorial and enangerial positions in beniness offices. This curriculum is directod sowand emilling 2 candidut so socreofilly cmiplete as euimination devoloped and adminiterad by the Inatinut for Cemffing Secretaries, a deparment of Profesional Socretaries tercemational (PSt), in onder to attin the deligution Certificl Pofenional Sectrary: Campletion of thia curricaltum, acceptaile sonos on the CPS Enaminaion, and wwo no four yean of nucceuful vecretarial mperimex qualify the malent for CPS cenification.

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## Office Administration Basic Computerized Accounting*

## Certificate Program

The student is porpared for entry-level emplogwent in busines, govemment or educationul offices. The arodent will utilise automuted yytemt and proceduma for bookkeping and accounting apliationt and the procering of financhat and managrial reporss

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| foif Adm $\mathrm{IL}_{2}$ | Compter Whdows Applications ar | 2 |
| IOft Adn ${ }^{\text {S }}$ | Microcomputer Office Appications: Disk Openting Spten | 3 |

## Office Administration -

 Basic Computer Applications
## Certificate Program

Suctenss ae preparad for emplogment in huisers, perenment, and ehuczional offics uigg computeried yyterm and procedures. Emphasis in phacod oo deroloping wills in the ue of word procrising spradhect, and dashose nfiware on perferm morine effire finctions. Completion of thit poogram culles itadens to qualify for entry/evel poildons in an asomated office and lays the foundation for further staly and alvancement in office ocrupurions

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| 0ff Adme 8 | Micrecomputar Sothmare Sarvey In the fifice | 3 |
| 0HAdm31 | Busivets Englah | 3 |
| Off Adm 34 | Business Vocabolay and Spelling | 2 |
| OHASm 3 | Word Processing: Kepboarding ant Opmitions |  |
|  | or |  |
| DHfAtm 34 | Micraconppter Office Applications: Word Protensing | 3 |
| Otiftas | Miersesmputer Office Asplicatione: Sprespahent | 3 |
| Off Afm 35 | Misrecsmputer Office Asplications: Dita ferm | 3 |
| 0ff Amm | Microcimpter Office Asplications: Disk Operming Sysum | 3 |

## Office Administration Basic Word Processing: Microsoft Word For Windows

## Certificate Program

Sudann may obcain a buvic wond procening cenificate in WORD ly completigg the counes down below. Completion of the program provila the exdent with the skills requilad for entry level enphoyment in offics utiliting WORD mfinare:
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OHAdm3

Jow Adn 79 Word Pricessing Applcutions

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## Office Administration - <br> Basic Word Processing: Wordperfect

## Certificate Program

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## Office Administration - Office Communications

## Certificate Program

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 hasde triephone igquivies and complee forma duat equive oppewituen
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| '0ffAdm 2 | Ipewritiogll | 3 |
| Off Adm ? | Buthess Conmunications | 3 |
| ${ }^{2} \mathrm{OHA} \mathrm{Adm} 71$ | Unversal Transciotion |  |

## Photojournalism

## Aber in Jarnation

## Associate in Arts Degree (te opian under/wimaliad)

Avociate Degee prognau DO NOT mecemanily canarihute the first nev yeurr of a progrom landing to a bachelor's drgm.
This program offers a conbination of theory and pracice so that the sudent can beonme a mocosifl new paper or mapine photoguphet Publiarion pb opponturities are open to grabluter widh this training Laboatsyy work includes taking the picture, devcloping the film and printing the pheegrapht. In additina to the AA. deqree, 1 certificase of achievenent an a pbocojournalimm major is awanded to the membent upon gndertion.

## REQUIFED AREA SUBJECTS

| Joumal 100 | Social Vhluss in Mesa Commenicasios |
| :---: | :---: |
| ${ }^{2}$ Joumsl 101 | Collecting and Whing Newn |
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## UNITS

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## RECOMMENDED ELECTIVES

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UNITS

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Joornal 158 Avtele Whifing
Joumal 217 Putication laboratory 1
Joumal 28 Phactical Eficing
Puote 12 Advanced Phetngraphir Thetriones -
Pith hel I

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Trpewriting lamy

## GEMERAL EDUCITION - SELECT 12 UNITS

Sor grubuation nypuiremen netaine.
 Ranc
 Parr DI.

## Pre-Engineering

## Associate in Science Degree <br> Asociate Degrex programs DO NOT wevenerily cosutitute ale fint heo yourn of a progrum loading to a bardelar'؛ degres.

A makent ray receive an Anaciase in Science degree in preeagineering by taking at leas 36 uniss from the mbjects lived bolow, coempleting 18 units in general aducation as per Plan B (wee graduation nequiremenn) and complaing 60 unis ownill This depree is deifund for the suident plarning to franifer to a four your collges or unvenity as an eagincering mujo
Just aking any 36 unin, however, will not qualify one for aimistion to spper divisos Enginecring, Seudents are urgod to sect a counscher for qualifying

## COURSES WHICH QUALIPY FOR TRE 38 UNITS

Clen 105, 102

Mah 251, 252,282 22. 25, pha any CSU tranderable nathenatics sourse which is prorequinito to Mash 281.
Phyics 37, 38,39
Rilowpty 9
Studenn mast have at loat 1 coane frum ach of the carcgries above.
 aboveliat.

## Religious Studies

CORE COURSES MINIMLM OF I IUNTI REOUIIRED.

## Aatro iz Artiropolog ef Raclion

Mpic mon Wetherat

##  <br> 2

 ..... 3
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Hmen Il The Ancient Word5
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nime 3
philes 5 Acien Filesophy ..... 3
Soc 15 heiligion urd Anaricen Society ..... 3

BREADTH COURSES TAKE THE REMNINING ITO 12 UNITS FAOM Einth CORE OR Entadry counsts.

## UNITS



## GENERAL EDUCATION REOUIREMENT

A STUDENT CRUDIUTING FAOM MENCE WITH AN M DEGKEZ AND A

 STMDES CEE GRADUTION REQUREMENTE FAN AI

## Sign Language

[^3]
## Spanish

The main objective of the program in Spanihh ate wo develop competence in the ability to undentand, peesk, mad, and write Spanith, and to poovide through the knowledere of Spaniah an underranding and appreciation of de tingure and culture.
Snadente are phiced in Spanidh counce acoonding to their yean of pervious mudy. In procal, one year of high shool Spunich is equated to one sementer of Trice Cowoge work. Thus ment high school grahater with one, twos, thme, or four jarn of Kich ichoot Spanith will ommill in Spanith 2, 3, 4, or 5 topectivdy. Eaceptinss to thir buic placement formula may be made afiter
 in Spanith 4,5, or 6
All coune in Spanith, unlon ppecifically utated, are tught in the forrign language. By bee end of the fire peas, madents arnin mastery of the baic thurrire of the language and ability to coevene on everyday topics as well at ned and urite on an comensery lowel
In the werond yeat Spualih 3 and 4 , emphais is par on gradually niaing the endent'sabiliny to peck, read, and write Spaniah 27, Calrumal Awareness Theough Advancad Converation, caekbina with Spanith 4 to incrave oral

Spanidh 5 and 6 reres comporition and anulyis and appreciarion of many shore litrrary election, short seoties, and films.
The couses taught in English, inchding Latin American Crilizations. Uodervanding Larin Ameria Throuph Fim, Coniemporary Mevican Lierratur, Giret Boola of Latin America, and The Spuniah Americin Short Sory, combine a panoramic overvicu with a close liok at a upecific counry of topic.
Sudena atr encounged so purtiopute in plogramu of mudy abroud daring be nummer or semesta ahood program.

## Career Opportunities

Spanidh is purticaluly earful in inarmational baines ot trade, conumuiry or social service, and in forrign ervice. Muigeing in Spanith is eccellent



## Associate in Arts Degree

REOURED COURSES

| Sparth 4 |  | 5 |
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|  | Irtarnefite Spunidh 1 or lighor and | 5 |
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| Sparish 27 | Cutund Awtronest troxph Advences Converation | 3 |
| Any tue of tre fotowing courtar |  | 6 |
| Spariah 12 | Cormepporan Mexicen Lherrtirs or | 3 |
| Spenth 15 | Srest Boska of Latin Americs | 3 |
| Spanith z | Sporith American Short Story | 3 |
|  | Sryertaningiatin Americs Trough Fim |  |
| Sptrith 3 \% | Undertanding Latin Anarics Trough film | 3 |

RECDMMENDED FLECTIVES

Ung $1 \quad$ irbsdection to tanguge and Uinguisbiss
Hatory 5 History of the Anerices!
nd
Histry 5 Hstory the Aneriess II

## Theater

## Associate in Arts Degree

Asedime Degree progranu DO NOT nmomariby contitute the fint now juar of a progrum loding to a buchelar's drges.
This pogyam is deligned to meer the requirments of the Aswcitre in Arts Degere and no provile inumacion in theater hivony, literaturs, acring, and intirial mage work. Public pefformunces of plajr are given with oppontuninies
 peoductions by entolling in Theater 232, Piay Phoduction or Theater 259, Childrn's Theitere

| HeSt SEMESTE |  | vis |
| :---: | :---: | :---: |
| Thenter 190 | Introdictionts te Theatry | 3 |
| Teater 200 | Vice and Acticilation for the Themer |  |
| Theater 279 | Bepinning Acting | 1 |
| Thenter 342 | Techrical Stape Prodection | 2 |
|  |  |  |
| Thenter 411 | Costirning fa the Theater | 1 |
|  | Genend Efuiction | 3 |
| SECOND SEMESTER |  |  |
| Thenter 230 | Play Production or | 2 |
| Thenter 250 | OVidron's Thester Misdection | 2 |
| Peaser 298 |  |  |
| Tepter 21 |  |  |
| Troster 312 | Techrical Saje Prodiction | 2 |
|  |  |  |
| Thenter 411 | Consining for the Theate | 3 |
|  | 6 6neral Elacation |  |
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| nean semester |  |  |
| Thestar 110 | Kettory of Warid Themer | 1 |
| Thasar 209 | Ploy Profection | 2 |
|  | * |  |
| Thester 230 | Oildneris Thestar Prodection | 2 |
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| Dester 27 | Advancei Acting |  |
| Theater 45 | Bepining Stape Mike-up | 2 |
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| FOURTH SEMESTER |  |  |
| Thester 115 | Hatory of the Aserican Thester | 1 |
|  | 0 |  |
| Thester 135 Thaner 232 | Dranaic Uhantirs | 3 |
|  | Prey Production | 2 |
| Thaster 250 |  |  |
|  |  |  |
| Deveer 29 | Rehearnalr and Performoves | 2 |
| Teater 300 | Inteduction to Stage Cratt | 1 |
|  | Senend Edvertion | 1 |
|  | Elective | 3 |

Anummended Elentives Thearer 125, 130, 225, 243, 265, 400 422


${ }^{3}$ Mgy alatinuie Theater 422
 rler
Thanfer Program to CSUN (Carnes mate at /Ferec)
Theater $100,270,271$ or 275 , Theater 300 , 310 , Theater 411,450 .

## Theater - Costume Option

## Associate in Arts Degree

 journ of a prognam Ineling to a haviviler's degme.

| Fist semestar |  | UNITS |
| :---: | :---: | :---: |
| Thester 100 | Itruduction so Theatar | 3 |
| Theater 20 | Bejogning Actiog | 3 |
| Thestri 300 | Itrotuction mo Sapo Crit | 3 |
| ${ }^{\text {T }}$ heater 622 | Appled Costuning for the Thestir Eseneral Efucation | 2 |
| SECOND SEMESTER |  |  |
| Thenter 315 | Intuducton to Testrical Scenic Design | 3 |
| Theater 62 | Applat Costining for te Thestrur | 2 |
| Theser 450 | Bepining Suge Meke-up | 2 |
|  | Eertios | 4 |
|  | Gienern Edocation | 4 |
| TMIRD SEMESTE |  |  |
| Thater 315 | Irtroduction te Themical Ligtiog | 3 |
| Thester 422 | Applod Ceiniming for the Thester | 2 |
|  | Genersl Edication | 8 |
|  | Elective | 1 |
| FOURTH SEMESTER |  |  |
| Spouch 101 | Ori Commeritatos | 3 |
| Thester 318 | Technical Stuge Production | 2 |
| Tharier 450 | Cortine Fariots and Syler | 1 |
|  | Elictive | 4 |
|  | Gerend Edication | 3 |


${ }^{3}$ Mag ablainite Thower 4!I Convenivg for the Theater
Tramsler Program to CSUN (Connte es tabe at Pierec)
Theare 100, 270, and one coune from 271 or 273, Thater 300, 310 . Theater 411, 450.

## Theater -

## Technical Theater Option <br> Associate in Arts Degree

Asociate Degrex programe DO NOT secemanily cosmtitute the first nes yearr of a progyam lading to a hacivilor'h drgme.

| fest semes |  | UNITS |
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| Thiune teto | Teticdicton lolio Tivater | 3 |
| Theatar 200 | Boplering Acting | 3 |
| Thentar 350 | Ifroduction to Srapo Cuatt | 3 |
| Thentir 36 | Techricel Sape Frodiction | 2 |
| SECOND SEMESTER |  |  |
| Thenter 315 | Itroduction ie Thersical Scoric Dosign | 3 |
| Thetser 30 | Tectricel Stoge Production | 2 |
| Thenter 650 | Beginving Sape Mabe-sp | 2 |
|  | Elective | 2 |
|  | Geners/ Ebotation | 6 |
| THRD SCMESTER |  |  |
| Peater 310 | Vrodectonn to Theerical Ugting | 3 |
| Tenter 342 | Technical Staje Probuction | 2 |
|  | Elective | t |
|  | Ginersl Efucation | 5 |
| Foums semester |  |  |
| 5peech 101 | Oral Commaricution | 1 |
| Theeser 411 | Costining for the Themer | 3 |
|  | Detives | \% |
|  | General Efucation | 3 |

[^4]Tranafer Program te CSUN (Cowner ies sate at Piove)
Theirer 100, 270 and ese counc from 271 or 273 , Thearer 300,310 , Theser

## Cooperative Work Experience Education

 is deigned to copand skitr and homelelfe and to imptove elf undentanding by intigating clauroom sudy with planiod supervised work exprimese. CWEE is hased on the principle that well elocind individuale dewhop mont dfectively by incopporaing muted elucation and work experience. These structured ayeriences in butiocs, induary, gwemment and homan services bring an enrichment po corloge studies which enhances the sudent's tool dendopmens. In is called CWFE because dhe educuional objoctive ate canefulfy planned and cooetlinued with the studen'' emploger to pewide tralinic employment exprixace. The objectives ane:
I. To primide opportanity for the itudent to secust employment on a panttime or full- orme haic.
2. To gin realitic work experimse that is meaningfilly rebtal to the etment's ocrley maty proyam.
3. To provide the sulent opportinity po acquire knowledge, sillh, and atrindes essential for macroufil enployment.

## Benefits of Cooperative Work Experience Education

The mulens

1. Has the opportunity to lam or impueve emplogment ikill under actual woking crockrions
2. Gailn perpeetive on caser gole fhough application of dammom theory 50 "mife eperience"
3. Build self-denticy and confidence as a wodker howygh individual Estenciee given by initructoefocondinatoes and employen.
4. Has opportunities to ser perwoal alitities io work eavimaments.
5. Has a more melivic approsch to the job marke.

6 Wil pin a bener endentanding of homan edainee
7. Wal lam so apply Management By Objecives (MBO).
8. Mor uffe to work caperience edration on furure job applications.
9. Bendits financillly while loaming
10. Can begin a cuver carliex

## Student Qualifications <br> THERE ARE TWO FLANS FOR CWEE:

## Puralled Plam

1. Turnar 1 plansed program baed on meaurable learning objectives yyred to, with CwVE initructoel Cooslinamer
2. Be enolled in no lew than 7 unitu (jncluding CWEE uniu).
3. Daring uummer senions be enedled in at lest 1 oher clast in aldition to CWEE

## Oexpational Whrk Experimer (Purallld Phen)

Houn by Aernggment, 1-4 units

A prognan of co-bejob lcarning cyerience for undents employod in a job nfined to an ectupationally orientof major in which no work epperience osurs is offerd. May be reprited three timet for a maximume of 16 units. To recove comlit a susdent nuss complite a minimmem of seen units during the senieles, indisling work eaperience.

## 

Houn by Arranproment, each course 1.3 anits
Pmonpuitr: Approul of Wlitk Exprienor Combinuter
A propam of on-the job larning eqperiences devigond to asist the suadent in decoloping occuputional effectivener. Employ ment sed not be seland to the susderi's wocational or accupationel maice One unit of cedle is earned for exh 75 hoors of puid engbignent of 60 honim of velunsert work, with a maximum of 3 units. To socrive condit a studene musc complete 7 units, inchuling work esperience. During summer setion ope of her couse maur be Bikn concurrenty, May be eqpeated cese for a total of 6 unit. OR

## Alternate Plant

1. Thume a plunsed program hased on mesumblle larning ebieaives yyrod ta, with the CWEE insmactor Coorticunct.
2. IGwe earsed at lcat neves unis of das wodk befoer canolling Onypatimal Wint Epperiencr (Hibmestr Fhan)
Hours by Amrangoment 1.8 units

A puopran of on-dhejob laining caperiences which malles the atudent to
 The work muse relate divectly to the muden's edicational goal and he/he
 enollat concursmely in more than one other counse, Eivihility deteminad by uppulations in Tile V, Calfornia. Adininitratine Code. May be uppated thuse

## Gowend Wirh Expriewer (Altornetive Phen)

Hours by Aerangrencent, 1-6 uniu
A program of oo-thejpb larning experiences which enables the stadent to
 Under this plan the work need not urlase dinecly to the undent's educational poul The uadent must have completed at leait 4 unia of comdit and may not be croolled oncurrendy is more than one other wane. Figibility for enodelent will he determined in accoedince with applicalle regulation contrined in Tite V, Califoenia Edocational Code.
 wouk

## Cooperative Work Experience Education Credit Guide

## CAUFORNLA STATE UNIVERSIT: APPROVED COOPERATIVE EDUCATION SUBJECT AREAS

Lor Agedes Commeniy Colloge Dherics policy proviles that a meximum of eifhe (8) waneter unitu in Cooperulin Rdection counes completed in the
 56 unit almintion requirement.
Accounting.
Adininitration of Justice
Afre-American Seudier
A priciture
Air Condicisning
Technology
Aikcrat Electmonias
Technology
Animul Huwandry
Anduropelogy.
Anchisecture
Art
Autronomy
Aviation Malnenance
Technician
Bindong
Bocany
Boradcarting
Buines
flesinea Duta Proceuing
Cheniary
Chicano Sumber
Child Devolopment
Cinema
Commexial Art
Computer Mainuenunce
Technician
Computer Science-
Informaion Tachnology
Computter Technology
Dairy Huhundry
Dratting
Emeonics
Edacuion
Flectronia
Electonia Tathnician
Electuniar Technology
Enginerring
Englinh
Emixumental Silence
Family and Conumer
Suncies
Fire Solience
Foreign langugar
Geopraphy
Goolagy
Health
Himery
Hemunitia
Incherial Asts

Jewihh Soxtios
journalium
Law
Linguitior
Manapement

## Mehematica

Mechanical Deating
Medial Rocond Science
Merchandise Desplay
(Visual Menchasdiuing
and Dipliy)
Merthandiving
(Markering)
Metenemiay
Micmbiology
Mineralogy
Maic
Numual Resontices
Managranent
Nuring
Oceanogryphy
Office Rdminiteration
(Secrecrial Sciener)
Philosophy
Photegraphy
Phoengraphy, Comenercial
(Photography-T)
Phyical fafucation
Physic:
Physiology
Potitial Science
Pychology
Philic Service
Real Euate
Recreation
Repiratory Therapy
Restaurant Management
Sign Graphica
Social Science
Sociniony
Speoch Commanicarion
Satintica
Technical Illuutration
Tidevition
Theacer
Trangormation
Uthan Planning
Water Syatems
Tachosingy
Zoology

## Transfer Requirements

## Transfer To Other Colleges

The requirments of the various colleger and tanivenitien vary so grady that it is not posible to prescribe a program of work which will apply to all. Therefore, althoegh many counses offered at Pierce College are of colleglate level, spechat Identification is given to those courses which are accepted for transfor at the Univenity of Callifornia at Los Angeles.
In general, these procedures should be followed:

1. Seudents should consulr the catalog of the collgge to which they intend to iransfet. They should choose those courses at Pierce in accondahce with the requiremens of the college desirnd, as noted in itr catalog
2. They should consult with a Fierce College Counudot.

The College Library and the Career Center have many catalogr on Fle for reference. Students should obtain a caralog for their personal use directly from the reglitrar of the college which they plan to artend.

Some counve do not carry credit toward griduation from a usiversity. Srudents should not apect college or univeriity credit for ceenies unless ther know definitely that ruch courses will be accepted hy the intitution in quention.

Transfer requirements are prescribed by the receiving inatitution.

## Transfer To Either University Of California Or California State University System IGETC

The Intencgmental Gencral Fducation Tranifer Curriculum OCETC) is an agreement by the California Community Colloges, the California Seate Universitios, and the Univenity of California on a common tranefer plan. The IGETC expelite of a serier of cormer which, if completed prior to transfer, allows community college triofer mudents the opporrunity to satisfy the lower-division gincral ediscation roquirements for any campun of the CSU or UC, without the need, afier transfer, to take abditional lower-division counes.
The IGETC is adviable for mont California Communiey College undeats who have not yer decided on a major or a parricular campor and who want to keep their options open befone making a final decision ahortt trinferring into tither UC or CSU. For mome majors IGETC may be inappropriate Sevients who are purning UC majon that sequire eatensive lower-division perparation to be admitted to the mafor may find the IGETC inadvisable - See Counseling Office for information.

The IGETC can be cerrified for California communiry collgge transers who have also completed transfer unies at a CSU, UC or independent colloge providat that ofr inidour Aas complierind mas af the matifr unitr at ane or marr Cablfirnia cummunity môdeas. A California community college student is usually defined as one whe has completed or will complete 30 or more total units at a California communiry college. Studenrs who inititlly emmill ar a VC C cimpur, then leave and attend a community college, and nubequently return to the same campus are considered "readmits" by the University. Such a mudent cannor use the IGETC - this is true at all UC campuses. However, studenta who enroll at a UC campas, then leave and attend a community college, and suhsequently retum en $\pm$ differm UC campus may be able to wse the IGETC, but madents need to check with the campess they wish to attend.
Since the IGETC muas be completed in its entirety prior to transferring, students who do not complete it before transferring will be subject to the specific geseral education pattern af the UC campas to which they are tranaferring. Srudents who are CSU bound will neill have the option of completing the CSU certified plan.

Since the IGETC has frequent revisions, mudents must consule with a counselor or pick up the latert version in the Counseling Office, ADM 1000.

UC EUGIBILTTY: Sendente who were not eligitle to enter the Univenity of California ar the time of high school graduation may become eligitle to enter the Univenity if they complete $\$ 6 \mathrm{UC}$ transferable units (mont UCs require 60 unitu) and sarisfy their high school subpect deficiencies. To insure that you have no robject deficiencies, complete these counes, all with a grade of " C " or berten (1) English 101; (2) Marh 125 and a geometry clas, or a more advanced math counc requiring Marh 125 as a phrrequisitre (Staristics I is accoprable)t (3) one additional coune selected from United Seater History. lab science, or forcign linguage.
PLEASE NOTE: Alchough a course may be lised in more than one subject ares, a single coune may be used jurt once. Onily ${ }^{\circ} \mathrm{C}$ " grades or better will be accepted (no C), and credie/no crodit cournes are acceprable only if the college catalig define credir as equivalent to a letter grade of ${ }^{\circ} \mathrm{C}$ ' or betrer (as is does at Pierce).

CERTIRCATION: IGETC must be certificd PRIOR to transfer. Certification of these unies is not automatic, and no partial cerrification will be allowed. Cerrification must be requered in the Graduation Office when the student completer all of the IGETC requirements. If counses used to fulliill the IGETC were completed at colleger other than Pleree of a colloge within the Las Angotes Community College District, official trinscriper must be tent to the graduation office. If you are uning high school courses to fulfill the "Language Other than Englisk" requitement for the IGETC (UC only), an official high whool transcripe muar be on file in the graduation office. Fumidhing official transcripes from colleges or high schools is the rosponsibitity of the usudent. Students who leave the collcge, breaking continuous entollment, will be placed under the IGETC plan in effect for the year that they recurn.
COURSES COMPLETED AT OTHER COLLEGES: Counes that are completed at any accredited colloge can be used in the IGETC certification. Scudents should be aware, howevet, thar coursework from other Califomis community colleges will be applied in the IGETC category determined by the original college. Seudents may petition in the Graduation Office to use coumer taken at UC, CSU, ptivate or out of state schools. Retitions will be evaluared to determine if course are equivalent to those on the Pirrce IGETC plan.

AP SCORES: AP scorer of 3 ur highar can be used to suninfy any IGETC mbjoct area except the Critical Thinking/English compovition and the communication requirement. Even thouph credit for mare than ont course can be awarded by Ficree for AP scores of 3 higher, only one cousse in the suljoct for which the AP test was taken can be used on the IGETC. Some universities do not awand eoume credir for AP roores. STisdenss hhoald chock with a countuefor and/or the institution to which they plan to trunsfee.

DOUBLE-COUNTING: UC will allow requiremenes completed as proparation for the major to be used in the IGEIC wherever shory appeas.

PROFICIENCY IN A LANGUAGE OTHER THAN ENGLISH: Verification of this requirament will be based on official records (either high school or college) indicating completion of counswork (with grades of "C. or bettet) equivalent to two years in high school of she same foreign language, Students can also meet thls wapulrement by prowiding evidence of appropriate scones on AP erams (scopes of 3 or more are acceptable) or by earning a minimum scove to 500 on the Collgge Boand Achievanent Test.
COURSES TAKEN AT FOREIGN INSTITUTIONS: Theie couna will NOT be permittell for certification on the IGETC

Some ITV counc wark may be used - wex a counselor.
The following list is for stadents bepinning the academic year 1996-97 or after:

## AREA 1 - ENGLISH COMMUNICATION <br> CSU - 3 calaner mpuind ane from nach group dolnan UC- 2 onurnes required, I each frum Girwp $A \subset B$ <br> Greup At Fnclish Comporition, 1 emene, 3 sementer units, or 4.5 quarter unlits Enpliah 101

Group H.Critical Thinking - Euglioh Compotition, 1 couns, 3 semster uniss, or 4.5 quarter units.
Prior to completing either of thele coance, a sudent mus have completed Engleh 101 with a grade of "C" or higher. English 102
English 103 Philosophy 201,

Group CrOral Commumization (CSU requirement only) 1 course, 3 semeter units, or $4-5$ quarter units Sprech Communications 101 or 104 .

## AREA 2 -MATHEMATICAL CONCEPTS and QUANTITATIVE REASONING

1 counn, 3 mementry anits, ar $4-5$ paster wnits
Mahbemation $227(225)^{* *}, 238^{* *}, 239^{* *}, 245^{* *}, 255^{* *}, 260^{* *}$, $261^{*+}, 262^{* *}$; Statistics $1^{* *}$.

## AREA 3 - ARTS and HUMANITIES

 12-15 quarter nnity

## Groeep At Ams

Aft 101, 102, 103, 111, 137-139, 500**, 501**, 502**, Muic 111, 112, 121, 122, Cinema 3, 18; Photography 27; Physical Education 802, 803, 804
Group $\mathrm{H}_{\mathrm{h}}$ Humanities;
Anthopology 104 (ame as Linguintica 1), 105, 121. 123; Englhh 203, 204, 205, 206, 207, 208, 209, 211**, 212**, 213 (ame as

Theater Arts 125), 214, 215, 216, 219, 239, 240**, 250, 252, 270; French 3, 4, 5, 6c History 1, 2, 7, Humanities 3, 6, 11, 12, 13, 14, 30,31 , tin, tuflin 3, 4, 5, 6; Jpanese 3; tinguistice 1 (ame as Anshropology 109): Philosophy 1-4, 19, 20, 22, 24, 25:41, Socinology 11. 15; Spanish 3, 4, 5, 6, 12, 15, 25; Speech Communications 130; Theater Arts 100, 110, 115, 125 (same as Fngliah 213)

AREA 4 - SOCIAL and BEHAVIORAL SCIENCES<br> unim<br>Anthropology 102, 103, 112, 132; Feonomics 1, 2, 10 (rame as Hitury 15): Environmental Science 17 (ame as Geography 14): Geography 2, 5, 7, 8, 10, 12, 14 (ame as Environmental Science 17): History 3, 4, 5, 6, 8, $11^{\cdots \cdots}, 12^{* *}, 13^{* *}, 14^{* *}, 15$ (tame as Economics 10), 20, 21, 30, $41^{* \cdots,} 42^{* *}, 43,44,50,52^{*}, 77,86$, 87: Law 3, Riltical Scimce $\mathrm{I}^{*}, 2,7,14,30^{*}, 35$ (American Foreign Policy) Pychology $1^{* *}, 6^{* *}, 11,13,14,18,41,52$, 66, Sociology 1, $2,4^{*+}, 6,13,18^{*+}, 30$, Spanish 10; Speech Communications 121 .

## AREA 5 - PHYSICAL and BIOLOGICAL SCIENCES


Lab courses are underlined. 7-9 semester units, or 9-12 quarter unite. The lab sdected must correspond to the lecnere coune ured.

## Group At Physical Sciences

Astronony $1^{* *}, 2^{* *}, 3^{* *}$; Chemistry $51 * *, 60^{* *}, 20^{* *}, 101,102$, $201.211^{* *}, 221^{* *}$; Envitunmental Science 1.7 (same as Geology 10), 18 (ame as Geography 9): Geography 1.3 (ame as Metenmology 3), 9 (same as Envirommental Science 185. 15, 12; Geology 1, $2^{*+}, 6,7^{* *}, 10$ (wine as Emrironmental Science 7). 22ABCD ( 3 unit minimum): Metoorology 3 (ame as Geography 3),



## Group Bi Biological Scienco

Agricultare 901** (eame as Environmental Science 5); Anatomy 1; Anthropology 101, 111: Biology $3^{* *}$, $2,2,12,11^{* *}, 25^{* *}$; Environmental Science $2^{* *}, 5^{* *}$ (ame as Agriculture $901^{* *}$ ) Microbiology $1^{* *}, 20^{* *}$; Oceanography $2^{* *}$ or $12^{* *}$ (these counes ase


## LANGUAGE OTHER THAN ENGUSH (UC Requirement Only)

Proficiency equivalent to 2 years of high school forcign language study in the same languge with a grade of "C" or bettex At Ficrec, this requirement can be atisfied by completion of level 2 in a foreign language, Choose froms French 2; Italian 2; Japanese 2; Spanish 2.
If language level 3 or higher is used to satiafy this requirement, it may not be used in Area 3 Group B; Hamanities.
*Conrwer denignated with one anterink arr listonl in rwe subject arrals, but midy be counted in one area enly.
*Isalicates ahat UC course crvelit maty be limited. Please me Pierce Collcge Counusling O/fice for UC limit cbockabeet.
*-Indicated cowrse may be cownted in ame arva anhly anal UC course credit may be limitend.

NOTE Thalerline indinnter rhet if cownrir is a lab nowne.
CSU GRADUATION REQUIREMENT IN U.S. HISTORY, CONSTITUTION and AMERICAN IDEALS (Not part of IGETC, but may he complered prior to tramifer.) 2 counes, I from each group. 6 semetrr units ( 12 quarter unitu). Counes used to meet this requitement may not be esed to satisfy requirements for IGETC,

Group A: Political Science 1, 30
Group Be Hiatory 11, 12, 13, 14, 41, 42, 52.
The IGETC Plan is subject to periodic revisions. Consult Counseling Office for current information.

## Admission To The University Of California

## 1. Without high school deficiencies

Even if a sudent is digible from high school, it has become eaceedingly difficult to transfer from a community colloge withour having completed 60 transferable units. Students thould follow the IGETC or wben appropriate the UC general education pattern, and whicre specificd, complete the prerequisites of their devignated major. The minimum grade point average to be digible is a 2.4, but many of the campus look for a much higher grade point average
2. With high school deficiencies

Applicants who were not digible to enroll at the time of high shool graduation may make themsedves eligible.
If applicansa were not digible at the time of high school graduation because of low scholarship or low scholarship and a lack of required subjects, they will herome eligible with advanced standing if they have carned a 2.4 average in 60 units of college-level work transferable to the Univernity of Callifornia and have completed one of the following opeione
Optien $I$ : One UC Transferable counc in mathemaries**, Englah 101, and one course selected from U.S. Hiitory, a bborasory science, or a foecign languagn, all with grader of "C' or higher.

The coune in mathematics must assume a proficiency levd equivaleat to three years of high school marhematio (i.e. dementary algobra, advanced algetro, and goomery). The course may be trigonometry or a more advinced coune in mathemstic or itatistica for which afranced alp ben it a prerequitite. These mathematics course may nor be transferable. Howeres, all of the sther couner disoused above mur be transforable to the Univenity,

Option 2. Appropriate college courses, with grade of ${ }^{\circ} \mathrm{C}$ or higher, in the a-f rubjects an applicant was lacking Up to 2 units of high schoof work in a-f subjects" will be waivel, but transfor applicanes must have satisficd the freshmin admission requirements in English and mathematio. "" A unit is equivalent to a oneyear courte,

## Admission To The Independent California Colleges And Universities

Califomia's fully accredired independent colleper and universities provide a host of options at andergraduate, graduare and proftasional levels for sudenses planning to continue their education beyond community collegn.

## Admission Policien

Seudenss who tranufer to independent colleger or universities find they are given scademic credit for most, if not all, of their community college stuilies.

Some colleges and universitio sipulate a cetrain number of completed units before comidering students eligible for transfer. Others do not and will secept tudents at any time. The requirements are ourlinel in the college catalogs, available upon request froms the rapective colloge's. Office of Admiseions, Many of these cataloge ate available in the Pierce Carect Center libeary. The Counueling Office has some advisement sheets available ourlining the respuirements for various school including:

Art Center Colloge of Derign
California Lutheran Citlege
Peppertine Univenity, L_A and Malibu Campuses
U.S.C. - Letters and Sciences and Besiness Administration

Independent institutions inviec you to make an appointment with their Officer of Adminions in order to discuss your tranufer opportunities on a personal batis.

## Requirements For Students Planning To Transfer To A Four-Year Institution

Two principal types of tequitonenss should be mer in erder to artain full juniar atanding at the Univenity of Californis or ocher institutions maintaining equivalent standards to which the stadent expocts to trander. These art

1. The completion of the lower division prerequisites for upper division majons and minors. These vary acoording to the institution of higher education in which the student expects to enroll.
2. The completion of a general elucation pattern required by the receiving instinution.
a) The paterns for UCLA are listed later in this section.
b) Patterns for California Scate Universities and Colloges are as follows:

## i) The PIERCE COLLEGE GENERAL.

 EDUCATION CERTIFIED PLAN authorized by state legislation for suidents transferring to the California State Universiry and Colleges is presented below, (How to meet 39 units of Genenal Education)Certification will be provided upon request for the student who completes all or a portion of this partern. The Sate Univenities and Collepes will acoept this certification.
ii) Students may elecr to complete the general education plan of the particular California State College or Univessity which the plan to attend.
a. For instinutions other thas the above, information is available in the Counseling Office.

In addition to evamining the information offered in this catalog, sudents expecting to tranifer to foar-year institutions should consult the catalog of these institutions reganting specific requitements for uppect tivision itanding and hould conult a counsdor. RECOMMENDATIONI If you plan to transfer to a four-year school, see a counselor each semester.

> How To Meet 39 Units Of General Education Breadth Requirements For Students Transferring To The California State University And Colleges

## Certified Plan

Studenes intending to transfer to the CSU systrm have a choice of general educarion plans. The IGETC plan is accepred ar both CSU and UC schools. The Certified Plan is accepted only at CSU schools. Snudents who are certain they will transfer to a CSU school should follow the Certified Plan. Students uncertain about wheher they will transfer to a CSU or a UC school, or who want to keep their options open, should follow the GGETC Plan. Transferring students may consult a conuselor for further information.

All stadents who are currently following a CSU Certification Plan are now obligated to follow the 1993-94 Plan or sebsequent plans.
CSU Certification Plans prior to Fall 1993 are no longer useable. There have been changes and additions to the Plan. This was done by the Boand of Trustees to the California State Universiry Sysem. Cournes taken on previous planc, but nor found on the Fill 1993 Plan (or mbsequent plans), will be honored in the category taken. To be cerrified, a stadent must comply with the new regulations/ format of the Fall 1993 Plan or subsequent plans.

The CSU system requires a minimum of 48 units of general education, 9 units of which muat be completed during the last two yearr of madia for a baccalaurease degree. Pierce College can certify up to 39 units, Certification of thase unlts is NOT automatic, It must be requetied at the time a atuilent completes the roquirements.
Partial or complete certification must be accomaplashed under the following regulations and must be requesed as ourlined belowe.
a) Requents for cerrification should be submitted to the Grabluation Office when the student in qualified to transfer to the Californis Stare Univernity mutem (CSU).
b) At the time a cervificarion tequest is mubmitted a request for a transcript must be submitted in the Giraduation Office.
d) Counsework completed at other California community collrges is applied in the same area of the certified pattern in which it was used ar the school where it was completed. For courvework completed at all other accredired collegere or univenities, up to 18 units may be used anywhere in the certified partern. Approval is cbtained by filing a pertition for "Pans-Along" certification in the Graduation Office.
d) Certification of specific areas is possible (partial certification) if all requirments of that area are met.
c) A srudent is dighte to be certified after complering a minimum of 12 certifialle units in the LACCD.

Courses required for the major may also be used for meering the general education breadth requirements.

ONLY TWO COURSES in amy one discipline, excluding laboratory only courses, may be used in meeting the Certified Plan requiremens.

## AREA "A" 9 UNITS - COMMUNICATION/CRITICAL THINKING

One cowner from ewch ontagory

## A-1 ORAL COMMUNICATION - Speech 101

## A-2 WRTTTEN COMMUNICATION - English 101

A-3 CRITICAL THINKING - Philosophy 6, 7, 9, 201, English 103, Speech 104, Pychology 66.

## AREA "B" 9 UNITS - PHYSICAL UNIVERSE \& LIFE FORMS

One ceuric frum cach catrgorg: Laboramgy counse it mpuind. Levturr and Lat most matich.

## B-1 PHYSICAL UNTVERSE

Agri 103, Astro 1, $2^{*}, 3^{*}$, Chem 51*, 60*, $70^{*}, 101^{*}, 102^{*}, 211^{*}$, 212, 221*, Env, Sc. 1, 7, Geog 1, 3, (same as Meroor 3), 9, 15*, $17^{*}$ Geology $1,2,4^{*}, 6^{*}, 7^{*}, 10,11,22$, Meterology 3 (ame as Giog 3) Oceas 1, 10*, Phys. Sc. 1, $4^{*}, 14^{*}$, Physics $6^{*}, 7^{*}, 11^{*}, 12,37^{*}$, 38*, 39*.

## B-2 LIFEFORMS

Agri 511, 512*, $901,940,950$, Anatomy 1*; Anthro 101, $111^{*}$; Biol $3^{*}, 6^{*}, 7^{*}, 10^{*}, 11,12,18,25,39,40$; Enz, Sc. $2 ;$ Microbio. $1^{*}, 20^{*}$; Ocean 12, 14*; Physiology $1^{*} ;$ Puych 2.

## B-3 LABORATORY ACITVTIY

One of ate cowise chairn frum B-1, B-2 ar B-4 mant be a lab course derignatnd by an asterisk and mart be manched with she appropritite Inciuve coserne.

## B-4 MATHEMATICAL CONCEPTS

Math 215, 227, 230, 238, 239, 240, 245, 255, 260, 261, 262, Statistics 1.

> AREA "C" 9 UNITS - ARTS, LTTERATURE, PHILOSOPHY FOREIGN LANGUAGE, AT LEAST ONE COURSE FROM ARTS (C-1) AND ONE FROM HUMANITIES (C-2). THE THIRD COURSE MAY BE FROM EITHER CATEGORY.

## C-1 ARTS

Art 101-103, 111, 137-139, 201, 300, 400, 500, 501, 502, 700, $706,705,721,805$, Cinema 3, 18, Humanities 6, 11-14, 30,31 , 60, 61, 89. Indus. Tech. 323, 325, Muxic 111, 112, 121, 122, 226, $241,251,299,321-324,341,411-414,501,521,561,571,601$. 611, 621, 651, 705, 721, 731, 741, 755, 775, Phote 9-12, Phys. ELI $802-804,812,814,818$. Theater $100,110,115,125,270,271$, 273.

## C-2 HUMANTIIES

Aarhro 104, 121, 123; English 102, 127, 203-207, 208, 209, 211 -$216,219,239-241,250,252,270$; French $1-6$, History 1, 2, 7, 77 , 86. 87, Humanities 2, 6, 11-14, 30, 31, 60, 61, 89, Italian 1-65 Jupanese 1-4, 8; Philes 1-4, 19, 20, 22, 24, 25, 29, Photo 27: Spanish 1-6, 12, 15, 25, 27.

## AREA "D" 9 UNITS - SOCIAL, POLITICAL \& ECONOMIC INSTITUTIONS

US HISTORY, FED. STATE \& LOCAL GOVT REQUIREMENT: SELECT ONE COURSE FROM A AND ONE COURSE FROM B.
A. HISTORY 11, 12, 13, 14, 41, 42, 52.
B. POL. SCI. $1,30$.

SEI ECT ONE ADDITIONAL COURSE, NOT TAKEN FROM D-A or D-B ABOVE, FROM D-1 THROUGH D-Q.

## D. 1 ANTHROPOLOGY AND ARCHAEOLOGY

Anthro 102, 103, 132, 141.
D-2 ECONOMICS
Fcoa 1, 2. 10.

## D. 3 ETHNIC STUDIES

History 43, 44, Spanish 10,26

## D-4 GENDER STUDIES

History 52

## D. 5 GEOGRAPHY

Eax, Sci. 17, Geog. 2, 5, 7, 8, 10, 12, 14.

## D-6 HISTORY

Hist 3-6, 8, 11-15, (sume as Spanish 10), 27, 40-44, 50, 52, 86, 87.

## D-7 INTERDISCIPLINARY SOCIAL OR BEHAVIORAL.

 SCIENCEJournalism 100, 5peech 121, 122.

## D- 8 POIITICAL SCIENCE, GOV'T AND LEGAL.

 INSIITUTIONSLaw 3, Poli, Sci, 1, 2, 7, 14, 30, 35.

## D.9 PSYCHOLOGY

Bych 1.3, 6, 11-14, 16-18, 40-42, 51, 52, 66.

## D-0 SOCIOLOGY

Sac 1-3, 4, 6, 7, 10, 11, 13-15, 28.

## AREA "E" 3 UNITS - LIFELONG UNDERSTANDING AND SELF DEVELOPMENT

Eiology 25, 39: Eaviron. Sci. 1, 18; Geog 9) Health 9, 10, 11;
Phy. Ed. 90, 91, activity courses (maximum of 1 unit total): Pyych
3,4, 18, 36, 37, 40, 41, 52, 60; Philos 19; Soc 17, 28, 30.

## Associate Degrees with Certified Plan

Snadents who wish to recrive an Ausociate Degree from Pience Callege while following the Cerrified Man shoald request evaluation acoording, to Plan A., (see Graduation requirements in previous socion) when petitioning for graduation.

# Admission To California State University, Northridge 

Applicants who were digible for admission at the time of high school graduation may apply for adranced standing at the univenity in accondance with admiaxion reguirments in effect at the time they wore graduated, if they were futl-time stadents in an accredited college and earned at least a "C" vverage in college work. Those who do not complete 56 units of CSU transferable coillege work may be required to take the SAT or ACT entrance ecomination as a condition of admimion. If they were not full-time college students, they may be required to meet the admintion requirements applied to recent high school graduates.
Applicants who were noe digitie to enmoll at the time of high school graduation may make themselves digible. In order to qualify for junior standing ar California Scate Univerviry, Northridges, an applicant must have completed a minimum of 56 transferable units at accredited institutions with a "C" average in all work undertaken, As of Fall 1986 all sudents new to collige musy also have the equivalent of four yean of high school Englith and two yean of high school mathensarics (slgebra and geometry or hipher).
Scudens intending to work for a degree ar the California Seate Univernity, Northridge thould plan their work to meet the lower division requirements.

## California State University, Northridge Lower Division Major Requirements

Lower division requirments for all majoes at CSUN are available upon request in the Coxnseling Office.

## College Of Letters And Science University Of California Los Angeles

Srudents who were incligible for admiasion to UCLA College of Leters and Science directly from high school may become digible by completing 60 UC transfer units with a 2.4 grade point average at Pirrce and satinfying either 1) high school A-F course deficiencies with two requirements waivel; (except the Englith and Mathematics tequiremens) with grades of " $\mathrm{C}^{+}$" of better OR 2) completing English 101, one mart courre which has a prerequisite of Mathematica 125 and one United States history, forcijn language, or lab science coune with grades of " C ' or better: Cammls with a cowntrlar abowt clearing
this mpuirment. A maximum of 70 units from Pierce will be sceppted towaris graduation from UCLA. Scudents are advised that the aborve are minimum requiremente, and that entering susdenss often have a much higher grade point average-

To obtain an Associate Degree from Pierce Calloge as well as prepare for transfer to UCLA, see Gradaation Requirements listed in previous section.

1. General University of California Requirements American-History-and-Institutions: Any counse used to meet this requirement may also apply on the general college requirements listed below. This requirement may be mot in one of the two following ways
2. Completion of two semesters in high school of American History or American Government of a combination, with $\mathrm{a}^{2} \mathrm{~B}^{*}$ werage.
3. Completion of one course chosen from the following with a grade of ${ }^{\circ} \mathrm{C}$ ' or better: Eennomics 10, Englich 207, 208; History $5,6,8,11^{\circ}, 12^{*}, 13^{\circ}, 14,15,20,41^{*}, 42^{*} ;$ Thatitical Science $1^{*}$.

Thore cowne abe meet the gowrnment nopuiement for the Plemr AA digyer.

## 2. General Education Requirements

Strudents are encouraged to complete the IGETC.

## BASIC PROFICIENCY LEVELS

ENGUSH COMPOSTIION: English 101 or 102 with a grade of at least ${ }^{*} \mathrm{C}$. or AP score of 4 or 5 .

QUANTITATIVE REASONING: One course from: Computer Science 506,513 , Mathematics 227, 235, 236, 255, 261, 262, 263, 270. 275 ; Statintics 1; Phillosophy 9 with a grade of ${ }^{\circ} \mathrm{C}$ " or better or Marhematics SAT score of 600 or a CFEB Matherestica score of 550. CR/NC unscorptable.
FOREIGN LANGUAGE: Prior to Fall 1989, through course 2 or above in any languages Fall 1989 and after, Language 3 or ETS (AP) score of 3 or above in French, German, or Spanith. Repetition of high shool forcign language coumework will count toward the 60 units for admiosion to UCLA and toward the Bachelor's Degree.

## GENERAL EDUCATION REQUIREMENTS

A minimum of 32 semester units murt be completed. Cawnes from the magjur alepurtment are not appticable. Required major preparatory counes from departments other than the major may be applied. To find which grouping contains your major please chock the section that follows.

PHYSICAL SCIENCES: Threr councer ar cight smenter lavitr (for Phyical Science majors, oaly one course is required). Susdents are "required" to include a lab cousse and have at least five units in one discipline, Astronotry 1 and 2 or 3. Chemitrry 51, 101, 102, or 60; Environmental Science 9 or Physical Science 5 t Geograptry 1 it Geology 1, 2, 6, 7; Marhematics 236, 255, 261-263, 270, 275: Meteornlogy 3 or Geography 3; Oceanography 1, 10; Physiac 37, 38, $39,6,7,11,12$

LIFE SCIENCES: Thrre counier ar right semester naint (for Life Science majors, only one coune is required). Students are required to include a lab course. Anatomy Ir Anthropology 101t Biology 3 or 25, 6, 7. 10, 11; Eavisonmental Science 18 or Geography \%; Microbiology 1 of 20; Oceanography 12; Physiology 1, 6; Pyychology 2.

SOCLAL SCIENCES: Four courses: Two from Histotical Analyuis and two from Social Analyris.

Historical Analywis (Historical Analyals malors are not required to sarisfy this area.) History 1-7, 11 or 41, 12 or 42, 13, History 43, 44, 86, 87, Spanith 10.
Social Analywis (Social Anslywis majors are not required to satisfy this area.) Anthropology 102, 103, 112; Eoonomics 1, 2, 10 or History 15; Gougraphy 2; fotiticat Sclence 1, 2, 7, 30; Pychology 1: Sociology 1.

HUMANITIES: Four counee One from Literature. No more than two from any other sulgroup, (Humanitier majors are required to take one literature course, and one additional course, for a total of two course), Literature majons are not required to take a literature course.

Literstaren English 203-208, 211, 212, 215, 216, Thester 125 of English 213: Spanish 12, 15, 25.

Philosophy Philosophy 2-4, 20, 22, 24, 25.
Language \& Linguinticse One semester foreign language course 4 or aboves Anthropology 104.

Culture EC Civilizations Anthropology 123; English 250; Humanities 6, 11-14, 30, 31: Spanish 26 .

Artar Art 101, 102. 111, Cinema 3; Music 111, 112, 121, 122; Theater 110, 115.

## GENERAL EDUCATION GROUPINGS BY MAJOR

## (A) HUMANTITES

## Alt Literatare

African Languges
Anable
Chinese
Englith
Englih/Greck
English/latin
French
German
Gerck
Hebrew
Italian (inchuding Italian and Special Fielde)
Japanese
Latin
Portuguese
Russian Language and Lierature
Scandinavian Languages
Slavic Languges and Literatures
Spanith
Spanish and Portuguese
A2. Philosophy
Philosophy
A3. Language and Linguistica
French and Linquistica
Linguistics (incoding all Linguistics and Special Fields majors)
Spaniah and Linguitrics
Mit Culture and Civilization
Ancient Near Eastern Chillizations
Clanical Civilization
Iranian Seudios
Jewish Scudia
Neir Eaitern Stuities
Religion, Surudy of Russian Studia
A5. The Arts
Art History
Musiodogy
World Arts and Cultures
(B) PHYSICAL SCIENCES
Applied Mathematica
Astroplysícs
Atmospheric Sciences
Biochemistry
Chemistry
Chemistry/Materials Science
Cybernetics
Earth Sciences
Fennomica/Syatem Science
General Chemiatry
General Mathematics
Gencral Physica
Geology (including all apecialization options)
Geochemistry
Geophysics (incleding all specialization options)
Marhemetice
Mathematioa/Applied Science
Mathematicr of Computation
Phynica
(C) SOCIAL SCIENCES
Clı Historical Analysis
History
History/Art History
CZ. Social Analyzis
Afro-American Seudies
Anthropology
Chicano Seadios
Communication Srudies
Development Studies
East Asian Studies
Fonnomics fincluding all specialization options except Economič/System Science)
Gougraphy
Geography/Environmental Studles
Larin Amerian Seudies
Political Science
Sociology
Women' Studies
(D) LIFE SCIENCES
Biology
Cell and Molocular Biology
Cognitive Science
Microhiodogy and Melecular Genetics
Neurnicience
Phyilological Science
Pyichobiology
Pyychology

## Requirements for College of Letters and Science Majors

Roquirements for the majons are available upon requert in the Counsding Office.

## School Of Engineering And Applied Science Criteria For Admission

Complation of at lesst 9 of the 11 required courses listed below in Chemisary. Phyics and Mathematics. Chemistry 101 and 102 are not required for the Computer Enginecring option.

## Chemiatry 101 \& 102

Marhematica 261-263, 270 \& 275
Physics 37-39
And completion of Engtith 101.
The School of Enginecring and Applied Science offien a Bachelor of Science degree in the following arcas: Aerospace Enginecring Chemical Enginecring, Civil Enginecring, Computer Science and Engineering, Electrical Engineering, Engineering Marerials Engineering, and Mechanical Engincering, Students are advised to check with a counselor rogarding specific requirements perrinent to their major chaice and the gencral edocation requirements peculiar to ongineering.

# University Of California At Los Angeles School Of The Arts And Architecture 

Majomi Architecture, Art, Dance, Design, Ethno-masicologs, Music, and World Arta and Caltares, Call (310) 825-970s for more information.

The department of Architecuure and Utban Devign offers Mavtens and Ph.D. degrees only. Call (310) 825-0525.

## School Of Theater, Film And Television

## Majors: Film and Televinion, and Theater Call (310)825-5761 for more information

It is highly recommended that mudents follow the IGETC transfer plan for either the School of the Arss or the School of Theacer, Film and Tdevision. Please see a counselor for peeparation for these majon. Admission is very selective. Students should consult with a counselor ar soon ar possible.

## How to Read the Course Descriptions

## SAMPLE COURSE DESCRIPTION



## Key To Transfer Credit Codes

UC This course is acceptable for credit at all branches of the University of Calfornia.
tUC The granting of transter credit by a UC campus for fieldwork or directed study courses is contingent upon a review of the course outtine after transfor. A UC student must submit a petition to initiate this process.
A UC campus will accept a maximum of 3 semester units of directed study or field work in any one semester and a total of 6 units maximum in any and all appropriate subject areas combined.
For further clerification, please consult a counselor.
CSU This course is acceptable for credit at all branches of the California State University System.
NDA Non-Degree Applicable. Some courses which are offered for college credit, but which cannot be applied toward graduation requirements for the Associato Degree are designated by the code NDA. All courses which meet the major requirements of the educational programs listed in the catalog may be applied towards graduation requirements for the Associate Degree. All transfer courses may be applied to the Associate Degree.
CAN The Coliffornia Articulation Number System identifies some of the transfirable, lower division, introductory (preparatory) courses commonly taught on California colloge campuses. The system assures students that CAN courses on one participating campus will be accepted "in lies of the compsrable CAN courses on another participating campus.

## Accuracy Statement

The Los Angeles Community College District and Los Angela Pierce College have made every effort to make this Class Schedule accurate and may, without notice, change general information, courses, or programs offered. The reasons for change may include student enrollment, level of funding. or other issues decided by the distriat or college. The district and college also reserve the right to add to, change, or cancel any rules, regulations, policies and procedures as provided by law.

## Accounting

1 Introductory Accounting I (5) UC:CSU (CAN BUS 2)
Lemen 5 hem:
tasodoce the fundumenal principla ind conacops of accounting an a buas for fisuncal communication in buipes. Induida the nudy of the proceders in muinaining recerds of buiben mauxcioms and the
 merchundising fim. Topia in cah, rectivilo und tempoary ierempeste, inventotios, plest avera and inturgible men, paymil. noces moplle and obler currast latilition, concepa and principla.

## 2 Introductory Accoumting II (5) UC:CSU (CAN BUS 4)

Lerant 5 hank

Coetimue be intradactory phave of eccosesting Tapic in parracnitp.
 equity righes, arningo. divistedsk, leog term likilitios, imposmena in

 munyerrial acountring prieciples, cust owernt cont behwios fodgeting coserdumespmofir anifyi, zcousering for docenchlemd opration. eramber pricing differential analyik, pooblect piciag, and capital livernsent milyia.

15 Tax Accounting 1 (3) CSU
Lerman 3 buen
Averyuititer Acrwenivy I mith a sule of 'C Oe bram
Doll with ux hans, acowanting procedure, and poparrion of iadividal Fodeal and Califonias income ux murme

17 Payroll Accounting (2)
Lexier 2 heen

Concerna nethodh usd procelurea in accounting for peyrols and in the

 to cancent hutomuted paymill proceduree. Also z-quitar molens with the yrioun phase of the Social Seccricy benefits and axe and Seate and Foilmal haw nelating to the poymer of wayn und nutrici.
20. Managerial Accounting (3) CSU

Lnaw 3 han .
Arroguitite Amwening I siat a goull of $\mathrm{C}^{\circ}$ ar beram Covers he puepurion ind anlpis of accounting sepors and ratemens for the purpoes of aiding management in the decinion-muking proceste. ia planaing and in finascial concel Emphasin be en the utiturion of acounting dua by buincou managment indule bodeceing andiliuf for


21 Bookkeoping and Accounting I (3) *UCCSU
Cenner 3 hown
 give for Amosinine 21 er $27 \mathrm{~cm} /$ Acrensing 1 .
Reriew the findencmalh of bookkeping and acosuring, de axosating
 and the yareod afjumenss and dofing entrim. Problems and a poacice set ave inexegral game of this counse.

22 Bookkeoping and Accounting II (3) *UC.CSU
Lenter 3 Kism
Arrequinituo Avesuntivg 21.


 tivns, inventories, cone of grods ndid fred mete, depteciation.


## Cooperative Edecation - Work Experience <br> Ser Aerient - Coppostive Exwarios.

vC Condit Limith Maximam 5 wein

## Accounting Computerized

## See course listings under Office Administration.

| Agriculture |
| :--- |
| Aeneral Agriculture - |
| Animal Health Technology- |
| Animal Science- |
| Horse Science - |
| Horticulture - |
| Agriculture 100-999 |

## 103 Introduction to Soils (3) UC:CSU

Eniurr 2 hownt lelenctary 2 hown.
Nirnally offond in the Fall imentre asly
Consides the arigin, formueion, atracture, and comporition of soile. Itcloda the efficts of tillagos drainage, and irrigation upon aoil productivigs. Examines the effecr of Aloratory and feld work devling with the maintenance and improwement of mal ferility upeo wariont crope and farm yotrms. Analyes the effect of organic and inorganic frrilimen upoe will prodociving control of soil moimure, and the peoblema of allali asd dry land managrmene.

## 110 Food and Society (3) CSU <br> Incwere 3 heven.

 and food pmofucrion, on de development of civiliuibon. The biological and ecologial inpucts of food poodiccion will be covered at well an the economic, policical, and sochal dimenaions of modern Agri-busines. World higger and food policion will eaplore the funaer.

## 112 Fertilizers and Plant Nutrition (3) CSU <br> Lenturr 2 hown: Lehevetery 2 hown

Suadies the furmation of wills with sheir plonial and biologioal propenies. Gives pracrial applications in efiectively ning vill as the fundation of plant growth and in improviag veilh by phyical noil amendments.

120 Ehical Issues of Using Animals (3) CSU Leviure 3 hewn.
Comiden the ethial iuves of iuling animule is reseach, elowatios. for food pooductioe and an compraioms. Clase diacumions include the animal welfarefrighte movemest, the ase of IACUCS, and the Asimal Welfare ACT:

## 150 Animal Care Experience (2) <br> Lntwer 1 hears lelunetiog 2 hion.

This coune in devigned so peovide weterinary science atudents with kocwlelge, ikllt, and ahitities in animal care. Areas of study will inclade sanitation, hoaning, avaritinn, grooming, vevesine, triiting and evvirobmental enichment requirements for both livesock and companion animule.

## 181 Fiold Work (10)

Laloneng 30 han
Supervieal job aperience eavending occupatianal larning in the darseen at an on-the joll learning tation erfined ta de stulentí excuparional grals.

213 Computer Applications in Agriculture (2) CSU
Lenare 7 heser lahnoming 2 hisn.
Uke of compuer programin arilatle for arimoluan and of amuliary equipsest mailable at comparer cesien, Satimial and oher compuer peigrans applied at agricilure problens:

## 305 Farm Machinery (2) CSU

Lnawt $I$ hourc Lelenstary 3 hum
 havaring. peot cueskl, and pumping equipunest. Comiliess the comernarion, operyion and minitmace of farm traton and the


## 309 Surveying for Agriculture and

## Natural Hesource Management (\$) CSU

Intar I hoser Lelowang 4 Wion.
Preeen prisciplos, fich pracices, calcalations, lines neimemenes, thmoy and ajpacmenss of level and tramiss, fielid operations wish leved and tramit, mavene compuration, veratives and anglos, plane bolle mupping and canth yartage foot lund farming.

## 401 Orientation to Veterinary Science (1)

 Incuer I howeDiesch madret eqploration of Animal Holuh Technology and Veterinary
 previrw of curunt legilation and medical terminologe:

## 402 Topies in Veterinary Technology (2)

Lentater 2 hown

Normaly afforn in de Fefl s smener anh
Ocients ruilense inte the Animal Holch Techodogy Program Inclule medical terminiologes veterisary echios and discuasina of the mele of the vechnician in verrinary melkiec.

## 410 Animal Nursing I (2)

Lntwer 2 houn

Seulies the yymptons and trenments of discoes affecting unall animak, nacination pootocol pharmacologg, fint aid procelurts, and vereciuary dentiany:

## 451 Antmal Nursing I Laboratory (1)

Lalunstary 2 husm
Cerapminitut: Aprinaluere 410.
Itruides for practial experience in performing upesific ulath levolved with mimul unining

## 412 Animal Nursing II (2)

Lncuer 2 hana
Armpwifiter Aprinulinur fle
Sculio ensergency procodures, care of civically ill purients, and an inmoductory suady of hirde and eqprila.

413 Animal Nursing II Laheratory (1)
Labwenary 2 hown.
Cerrpuivime Apricularv it2
Centinuar Animal Naning 1 Laboratary in propiling pexcial experience in performing new technial wilth iovolied is animul muning

420 Clinical Procedures in Animal Care 1 (2)
Lentarr 2 heari.
 Pripura die utulest mo perform conmen diaical procedarer il the thinul hoppital or laberatory under the mpervinien of a veserinarian

421 Clinical Procedures in Animal Care I Laboratory (1) Labonalary 2 huan
Compuffiten A pirimine 420
Thovides for prostical experiesce in vatiour dinical procentares needed by the animal health technician.

## 42 Clinical Procedures in Animal Care 11 (2)

Inture 2 buan
Averpulithe Apriculnor 420 and 121.
Pepares the undent me perform additional clinial procedure with emphais on margery and anenthetics.

423 Clinical Procedures in Animal Care ill Laboratory (1) Labonitioy 2 hown.
Cerspuiniten Agricularr 122
Pronide for practical eqperience in anothniology, surgiol amianace and other apocts of dinical procelumes.

## 430 Veterinary Clinical Pathology (2)

Lenture 2 burs

Provido a compechemine introluction so modern practical methals in merrinary dinkal haboranery amalyia. Iscludes blood, urine, fecess and thin kerppings trass sith emphanin on mall animal specio.

431 Veterinary Clinical Pathology Laboratory (1)
Labonnary 2 hown.
Cerspuifiter Ageinahart 850
Proviler peactial aperience in per-forming various dinical analpria cuminations and procedues.

435 Veterinary Radiography (2)
Lenurr 2 hown.

Conillen radiologial uerma, ufing, and techniquer needed by the animal bealth occhnicien oo mint die verefinarian.

## 436 Voterinary Radiography Laboratory (1) <br> Lalunetery 2 hourn <br> Cernpwiffer Aerichlure 35

Phoride practicria raliological technique and film developing an well at uffe uec of equipment.

## 441 Large Animal Nursing Laboratory (2) RPT 1

Labentary 4 hown.

Proviles hashon prasical aperience in performing procedura and hmbundry prastica comene is large and haboritory nnimal specien.
Extenive puctice in handling and rotraint also provided.
450 Introduction to Animal Facilitated Therapy (1)

The role of animals, including both large and emall animal apecien, in anlmal-amhtret therupy lume rech ar eelective, training, ore and mainornance, ficiltio and pervonnel required, as well at coner and liability fesues will be discuned. The clan will emphavire pracical hava and hadhoo experience:

## 450 First Aid for Companion Animals (2)

Incurt 2 hasm
Proents as overview of fint aid situatioss and their teatemense in dog and cos, selative to animal fadity employer and/or per ownen.

## 451 Companion Animal Management (2)

 Lnture 2 ham.Provider a fundemental undenuanding of the basic plypiol and poctholigioal myuirments of conpanion animals. Topia inclade Soening, natritiva, nestraint, behaviar and development.

456 Avian Care and Hesbandry (1) Lniwn / hask<br>Thir coane proviko the itudena with information and pracial maing aboar per binh. Topicr include halic mamprment princpler neha as houring and det, commoe avian ailmant, breeding sechaipua and beharior. Included will be alpeca of aviary aet-up and manypment

## 470 Laboratory Animal Care (2)

Leviure 2 hows Laturatery I heve.

Prosens an ietroduction tw hborsery animal care and Mrabandes. Topior include cave and reamint of rultaits, gelina pige, rodens and neter pocker pets. Cater oppostunities will also be addroued.

## 480 Clinical Experience for Animal Techaicians (3) RPT 2 Lalinuang 9 houn.

 4f mate of "C or hetare
Offord ening umenire
Povides an opportunity to obtain ppecialiond experirnce in a wewevinury
 undens will be gives varied protiol enperimece in all mpeter if Feverinary anisance and will be ahle to cooedinase this operienor with their dumbom inuruation

## 49) Animal Health Technician Practicums (12) <br> Latrave 12 houn:


Doipred primarily for pacticing animal healh ted niclam. Docoser velecied ropica of cuncest imerest. Tinghr ite modula of one or neo unim.

## 5if Principles of Animat Science (3) UC.CSU <br> Lniner 3 houn <br> Offrnil eem umarm

Provides a broad penpective of linnock mungerment problema and dechions that must be made in livenck productios. Cowns the following dun of livewacke beef carde, dairy cante, sheep, mise, hones and poulry: Topio include hocede feedinge and repoduction an well an obher mamagement activitia.

## 505 Animal Nutrition (3) CSU

Lenture 3 han.
Offimel empy irmentr
Induble a general mady of the cumatinumet of feel faibolodrate. protelis. fass, miberak, vitamins and wiren), their urilization by the asimal bohy, the digroine wveen, the procruar of dipstion mad animilaios of the various feed conatinams. Cause isclade rathen boluncing and feed identification.

505 Urban Farna Animal Health and Nursing Techniques (2) Lerner I how Lhlewang 2 han
Provides proctial aspeces of urhan animal healh and nelenel eure of furm livatock. Counse encunpuses the veious preventative houlth pougrame. as well as nursing techniquer for back yard pooducen. Fowides "handeow" everience in performing henhendry proctiom onemmnn to ench upecior.

## 510 Animal Health and Disease Control (3) CSU <br> Lention 3 hain. <br> Ofind enery rementre

Slelver the phopioheg of animuls to animal health. Inclades common antmal darases, theif causes, prevention and conend, he morment of wound and the relation of sanitation to divase pereention.

## 511 Anatonyy and Physiology of Animals (3) CSU

Lermer 3 hown
Offorsf eregy ummier
Provider a hasic maly of the facts and prisciples of minul life. Incloles detailed reference to the avanomy and phyiology of dometic animals. Compunther amenny and phowioky \#f ieluifd.

## 512 Anatomy and Plysiiology of Animals Laboratory (1) CSU Labluning 3 hean:

Cempuibiter Aprinularn 572.
Rovide practical aperiencr tisawering principle and atnacture anocimed with he anatieny and phoriology of animulk. Micrurcope work and diaction of the on ate inclubled.

## 556 Agricultural Estorprise Projects (10) <br> Lalinativy 30 hism.

Averpubition Aprinahare 570 .
torniven the planaing, deckepenent and complection of an inctividual or poup animul cience ne crop producrion project under the guidance of a Guculy advior ne the Cilhge Gurm. Unually the projea will iveolve porchase of animele er cryp, amociuted peoduction coms, and evenual profit at time of ale:

601 Herse Production (3) UC:CSU
Leswerr 3 hour
Offind erey Fidl mentur
Fomisa ibe hatrary of the been, inclucling amonong, coofinturina, prodiypoing fiscoce to unseundnesi, selecring, homing, and une:

## 602 Horse Hushandry f3) CSU

tercurer 3 hean
Ofomd mery Syent wemers
Proents in adrazoed and deniled firm beceling, mase and atallina cilecrion, fouling of the mam, feeling sesd managrenent of light howen, discum, sunitation and pevenelios of divas.

## 603 Equine Management Techaiques (10)

Lerture 5 hown Levensang 10 hewn:
Thactet applicition of ite mangemest apecs of the hane indang. iodudling participution in the muruprosent decivioss amociated with the Colligger beed and facilitin.

## 511 Farrier Science (2)


Pernpuifiter dyeviulnor $60 t$ awd 600.
Anatomps. plovidegs and cunfocmarise of dec hone's feet and liges. lasik pitisciples of canfinmarion and git enalpis in mataion wo hoof hilance:


515 Introduction to Rodeo (1)
Lentan I have
Famillatites the endent with the fundumentals of the sport of naloo and dhages scrurring is the spons. Surnoy ble opponinitio for a peofisinnal careet

## 616 Horse Show Activities (2) CSU RPT 3

Lanner I heor labwiory 2 hown
Introface and familiarbes stuidense with the development of thow hones. Onpatiuation and mangernent of heose shows. Shilis mequired for a proferional caect in the firld of perfinmance hones.

## 617 Intercollogiato Rodeo Activities (2) CSU RPT 3

Amiring: 10 hown
Offimi every umoter
Thime madenes for cumpreition insercollogiase nadea. Proviles inurnive practior is the variout intercollogine rodeo evens. Familiarises the suakeut with fundumenal modeo anemp peocelume. Dewelys the phyintl dorectig and coonlimation sevecsaty for participation in dhe yport of todeo at college level. Snudens from this corusie will be selected to upusent Las Angples Fence Crilege at intesolleghate competition.

6in Brsle Equitation (1) CSU
Lntwer 1 hase
Corrquititon_Apriwharr alt.
Offored eary minnter
Provides inumuction foe those inutereed in training to ride and handle home. Induder groomity saddling, bridling, pars and cave of the equipment of horcos, and riding techniques.

621 Horseback Riding Lahoratory (1) CSU RPT 3
Lalowan 2 hourn.

 apminitict
Fundamontal dua In watem and Enplith riting deigned to trech
honelvick isiling to sudents with varjing degres of experience.

## 630 Begianing Equine Trainiag (2)

Lniure I harr Lablowtan 2 hown.
Phrocquifitm Agriowher GOT and 002
Beginning equine mining is the chooling and usining of yoesg bone fire tilling. Enypluais will be pliced on contrelling and conditioning the young honec in a mamser sufe for the stulent and the hoses.

## 631 Advanced Equine Training (2)

Lersur I hecc Laluning 2 hown
Prerypuiditer:Acrínuhar 630 .
Expabds the coocepos leamed in Apriculture 6,30, Emphaiir will be placed oa honse and rider as a ram:

640 Horseshow Orjanization and Management (2)
Lenurr 1 howr hinurang 2 hown
Prropwiniton A pricalury 601.
A compretremive inaly of honechow organiaxion and nanyemens, with panicular emphair oe scounting inotanos, labor managrenent.
mukering and advertining. Eniplasies alequare planing and propuration for succos.
e50 Equine Health and First Aid (2)
Levarer 1 Ken Lelluvating 2 hern.
Prevoquifiter Apríuliarre 601.
Coester an awareos aneyg hose ansers, traiorth, anal wable mungen of a houldy of slak animult wutio the cane and twanol meamare which may be prasticel. Helps the horise imenct and the veterinary sivatiat communicas.

701 Retail Floral Design and Practices 1 (2) CSU
Letam I hest Libniwg 2 henn.
Ofined nery mentr
Traches andente the flowen and planss in Souchern Califormis ued prinarily is the firiss trale. Inchade the use and care of equipesest unol In the mole and thop practior in fiwer oure and ennape making

## 702 Betail Poral Dosign and Practices 目(2) CSU



Ogirminery immint
Coarinues Agriculnue 701. An Lheramory work induda bowl amngrowesti for hone and hospiol, buly powdy arrangrinents, and annivenury arragermots. Sudien foliger and flowering plant trimming geen platers, and the ne of plavis flowen.

## 703 Retail Fioral Design and Practices III (2) CSU

Lenary I heor: Lhenatiry 2 hown
Arenpuififon A mininhare 702
Offred enery umoiver
Continges Agricultuer 702 . Stulie foral delgning of memorial effrringh
 Indiala s imatr of goneral blop iechnignos. As part dithe coune


## 704 Advanced Retail Foral Design and Practices (2)

Invert 1 huer latoriting 2 heven
Prrviminter Aprowher 703
Ofowl mery memsirt
Procentr advanced denncourration in floal armagenems for apecial occaluns, including aingleve covernge of wedding booquers and coenges, chanch decarations, balliooms and hanques decoe.

708 Floristry Projects (6)
t 4
Lalusumig 12 heurn
Offom tery inmier
Inrolves planeing developing, and coneplecing an individual flotioultural production project under the guilance of a faculty akvisot, un or off rhe olloge campor

## 711 Botany for Horticulture (4) UC:CSU

Lecture 3 haws Leloweang 3 hourn
Conaiden the fundamentals of botams, incluting a atudy of the newh evernal purs and functions of forwering planss, the havic plans cell, conspoition and fiunctions, and varinat sjecislised thatues and cheir fuactions. Diccuate plant eteprodurtion, hoth senul and acomal, locluling the bwior of plast beeding and election of mes varietice for landcape hortioulnue. Emphuives noopsition, proper urilizatioe, and mininenance of onnamental plases.

## 712 Botany of Ornamental Plants (3)

Lntire 2 hount Labonatiry 2 hen.
 plans. Consideration of the haic boxany of plants and a cermethesaive atoly of the mopphology and maroner of emamenesl phate. Divowes
 plant teactions to be envimanestit.

## 713 Plants and Civilizatlon (1)

## Lentarr I how

Emphaikes the ofigin of segicalnume. Discuase varioar unditional boanty copp and cumusercis uno of platit. Viewn wgioplrure of the finuee with an emphais on agriculnure continuing to meet the meede of woeld food production

## 714 Principles of Horticulture (3) CSU

Letary 3 hann.
Offinf ner syrive and Fill mentr, emve yon.
Conctrn the maistrausce woik commooly dosc in home and eatate gandena as well as parka and echer pullic area. Gives amminot to lawn cats, techaiguer of watering, fertitation and weed coanol

## 715 Therapeutic Horticulhure (1)

Lenury I has
Ruvides inurracion to penons smaching horioukrene to the hasdicapped. Decusen planning, failities deigh, equipment and supplies and projects necesary, Cowen imurncion mehodr and udection of plant materials for une in inverucion and firt patient pmopes.

## 716 Arboriculture I (Care of Trees and Shruha) (1)

 Lenurr 1 hasBark methols of eme and dhubs can: Seloction, plauting and mularnance of nees and hhubs from ywah to ypecimen murarig. Emphaisar cultural wpects as well as selection crisrias. Extensive festrucrion in pruning and chaping.

## 717 Arhoriculture II (Tree Surgery) (1)

## Inture 1 hive

Intuodices ane wirgery including care and maistemancr of divesed uecs. Diugoving posblems, nesment and suargial practices are included. Dickien micor-injoction, ove inventory and ture appraisal. Emphaitrs care of toee an part of the uithen friest.

## 720 Tropical Fruits and Nuts (1) <br> Intiner I hume

Introduce itopical hirticithurs. Discuum major crope such as wefles, vea lananus, cocki and oder copen. Deals widh celrual apeces, hareeting and procresing of mopical arpe and ecrunmic importance in world and U. S. apricthure

## 721 Organie Gardening (1)

Intan! I hour
Introduce nanual merhodr of food prolaction. Differnt oggnic pronlening wehhole discunion of orgonk types of ferilliens, comporing and pest control methoty soarces of naminh panlening upplier and nutural food oopprativen are cevernl.

## 72 Care of Horticultare Equipment I (i)

Lentart $I$ howe
 and equipenent with emphain on hand eperseed open. Inclaven soatioe of equipment, adjumuent, wervice, sharpening, and repair.

## 723 Care of Herticulture Equipment II (1)

Lentan I hour
Arenpulithe Agriadhur 722
Sruction the welecrion, norges. malistenance and care of horticultural mool and equipment with enghasis oen mechanimed typer (i. e. lawn mowers. Chain aws, rotorillen). Includa narices of oquipment, adjutment. service, shappening, mpair and werhanal

## nit Drip Imigation Techniques (1) CSU <br> Lerhatr 1 hese

Suites the devign, instatlaion and maintesunce of drip irriguion mysems with emphanis on both theory and peacical application to ornamenal horriculture and frood crop prochacioe.

725 Vegetable Production (1) CSU
Lentier 1 hest.
Discuara produaine of ganden ngeralles, perparaion of the weed bed. plasting werering and fertituarive. Per contuol methols, welecion of varictios and gandening equipescnt and mools are topioa of inatroction.

## 12s Agricultural Genetics (1) CSU

tenaine $t$ hese
Ineroluces she baiko of plast and animal groetios. Discraso fonmuriont of hytridis and cloncs, prac interacions and urituations of musations. Prepares stuilents for plant beecling and animal pendurtion.

## m2 Plant Breeding Techniques (1) CSU Lanimy I hour

Prengwidile Aprisalher 711 ar 7X
Appliation of principles of plent ingtowemeat through selection. Inteidiastion and uxitration of heforid vigne Demonurrates hreeding techniquer neccuary no hybridise plane.

## 22 Apiculture (Bee-Keeping) (1)

Incwer I howt
Care and management of bers. Discoana principles of effective ctablahmest and maintenanct of apiarias. Pollinacion and valat of bee to agriculture. Recognition and control of bee diceer. Law and regulainus pertwining to beelerping.

## 72 Viticulture Practices (3) UC.CSU Lechine 2 hewns Lelonning 2 heen

A compehcnaive unuly of grope growing uritining the Callege planting for ficld pracice in plasting, maining and malittaining the vineyand. Varical ideneification and use Conmencill prodection proxtices. mechaniration and processing are enerel.

## 730 Intreduction to Enolegy (1) CSU <br> Lectian I howr

Mirory of wine and the wise prodoction engions of the world. Emphanis on gropes and wine in California's historic Lou Angeles area. Considen wine production and sechaipues. Theoretioal apects noly. Wine not thatef of made.

## 71 Agricultural Measurement Techaiques (1) CSU Lentave 1 hear.

Phorida inaunaction ea mechods of measuring and evaluating horikulural planting, applications and ueranents. Drals with experimenal deipr, inserpretation of resio and application to hortionkural and butines practices.

## 72 Urhen Farming Techniques (1) CSU <br> Lntur 1 houx

Balc horticulture practioes for the urhan farmer Diciaser growh habion. mactions and paterms of plants. Discuses gandening in limited epaces boch indoon and outdooss. Provile guilance necciary for home production of omumeneal plants for both aparmest dwellen and homeowners.

## 740 California Fruit Growing (3) CSU

## Lenver 2 hwers Lelowethy 2 hewn.

Dals with the sclocrion and care of various fruit, nuts and berric grome Coliformin and suimblity for wifun landsapes. Discomes pos coesml plasning, managenent, edoccion pruning, and envitonmental efficts. Discuase hoth common and exotic fruits. Emphasies une in hoine landocaper:

702 Practicum in Horticultare (5) CSU Lntwer 5 hums

Daigred to present apecific nobifacs to moert the meeds of the horiculture induatry and the commeniry ar-larger. Aloo meets the mpuirement for contioning education for varion honicailure indiatries as dicatal by the Agriculnare Code of Califormia.

## 756 Greenhouse Plant Production (3) CSU


Suiflas the sacu of the flower and por phant gowing induarg. Coouilen all tppes of forcing enkcuses, inchding their para, enaintemancs, and ume
 nutribion, lighe, temperature, moisture, and pest and discose probleme. Khantifisa flowering and foliage plants in coemmon umage, which are grown in lobontory pracice: Includoa field mipe fine obserrainem of indatry facilitios, methork, and protirns.

## 757 Pannt Propagation (3) CSU

Lenarr 2 hemp halenating 3 heon
Povidas pracioce in plant propupation for coenmercial or home se:
Reyuires smalens to propugere plant mastriale daring liboranory houn. Disciasas propaparion methods, senscures, diveses, and limer pecrenction and consol of the plans leing puopagated. Provida labonsory work which inclades seeling, traneplanting cortiog, babling and grafting. potring and canning.

750 Nursery Practices and Management (3) CSU Intarv 2 hewe Lihwatiry 2 ham.
Meco the seels of sualents plannigg to enter he nunery indontry of the fidds of landruping and maineruance lectades the sualy of whileule and ectil nurscry opecraines and their sclariseahips to che hompowner and the proferional lamilcape opernooc Consints of the actual praction in
 maneriar in oporation.

## 755 Trechalques of Greenhouse Managoment (3) CSU <br> Lectare 2 howns Lebowery 2 hown <br> 

Management of focilitios, culrunal operxion, aop motion, scheduling and mont leeping, Thuvides practial coperience in gershlowac managerwent.

## 750 Indoor Plant Care and Maintenasce 1 (1) Intive I hour

Whecring, fentilitation, staling, pruning and plasting the honace phast. Discuses neid. lightu and humidicy selatheships. Discuncs how and wleze so purchase plants.

## 751 Indoor Plant Care and Maintenance II (1) <br> Lntint I hown

Aerepeifiten Agrinalhure 76
A continuarioe of A pricultuar 760. Decume greenal plant care, pers coetrol and urowhohooting plant problems. Inemuction of the plant nuintrnance busiocs wo inchucle al appects of curtoner relations and plant mainsenance toctunicias operations.

## 762 Ieterior Plantscaping (1)

Lentare I hese
Bonnomic and mungertal appocu of plentsaping Incrodoces technial apects of imerior devige and planting. Emphaiti on follage phas evection and inuallation and dient relatoeshipa.

## 764 Hydropenic Techniques (1) <br> Leviner 1 hour

Fhaducrios of weprobler and ether plans bpdroponically. Discrane all apects of hydroponic growing, including eofl, ferviluern, nuerirmt toting. suitable plants end dimatic conmal Deale with various hydropceic spurner ond methots.

## 765 Greenhouse/Wursery Marketing and Sales Techniques (1)

 Lentirr $I$ hewrMarketing and elling ghant producn. Discuaco appen of wholewling and muiling to ischoide picing qualing, wherrixing and dipplon. Discumes general operatons, asociaione and local penonnel pracioss

## 756 Garden Center Management (1)

Lnilurt $I$ hear
Maugerial apecrs of a garden center opension. Coven dhe purticulans of peablinting, derigning aod maintaining a gunlen center. Enphanites practial functioning of mach a centes.

## 800 Plant Identification and Use I(3) UC:CSU

Lenter 2 hurc Lativiang 2 houn

Prownt a grneral conise in plant idendifarion, induling woody and mon-moody kiod. Empluaties ornamental neen, shrubts, and wites, with sume attention mo annulh, pestenial, flowen, marulens, and prawes. In plas sed diefly foe atalents ensering the fieldv of survery prowien. lashopileg and mulistenance.

## 501 Plant Identification and Use II (3) CSU

Lextart 2 hever Labonaing 2 heern
Cominues Agriculure 800, cunsidering phann unol in lendicaping and nenery necupations not inctuded is Agroulture 800 . Repuim a number of field eripe foe observainin of plana and their men.

302 Plant Identification and Use III (3) CSU
Leviver 2 hems havenary 2 hourn
Inchide che huic boeanys habis, hatives, asd culvate of omanemal and frait uech. Emphasises identificutiont, election, training, connct
 pruning fervilinsion, pew and thesee ond heir terment. ther demonutrations and field uripu luggly widin the shool faclilim.

803 Native Plants for the Landscape (3) CSU
Lenare 2 heury lebeving 2 dinen.
Thaches Califoenla native plant maserible sulathe for landeape were. Inchules wome doughe toleraner pecies as well. Enphusinss moognitios, relection for specific wect, cultural mequernirnth, and ralogy

## 804 Landscape Drafting and Graphics (1)

Lentur 1 hase.
Alsik landrope drufting pescikes, lentering, line wark, pmabols, shert coeppositive and dimentisning, Proviles brief intundoction mi landecape deign.

## 805 Basic Planting Design (1)

Lentar 1 hener

Devign and prepuration of lanckcape planting plans. Eimphaines acologial and acritetic convideratione.

805 Landscape Planning and Design (4) *UC:CSU
Eniver 2 wars Lelowewn 4 hown.
Inchala die fundanemal principles of landsape deign, dafting mapping techniques, baic derign concepes an applied to meidential and commencal developmests, and pracrice ian prepurieg lindioper plans for unall puopervies. Scudens murr poovide sheir own drawing equipment.

507 Advanced Landscape Planning and Design (4) *UC:CSU RPT 3 Leciare 2 hounc lelvening 4 hown.
Arengwitite Apriculary 106.
Continue Apriculture B66 with ypecial emphasis on plesting devign orientel to cromercial apects, graling plans, conetruction dowitgs upocificaions, cout eximuers, and clicat mationhips. Affonh practice in witutios of moere difficult problema.

508 Residential Landscape Design (3) CSU Intwer 3 hoon.
Cancmatran in tive landicaping and the itemification and nelection of plaur mutrith witalle for the averugr mall house. Coeniden troe placment, liwa and groond coven, floral and shrob borden, foundelios planting, the outdoor living space, play arras, and urvice yand. (lequiors andena to complete a landscipe plas of their chooing

## 808 Planting for Garden Color (1)

Iniver 1 howr
Armejufition Afirivither tof
Doign, election and plast inarallatios methode for color is the garden. Inchades ues of wes, shuwhs, ground coves, with emphair on ule of atmuls and perenailis.

810 Containar Planting Design (1)
Lennert 1 hur
Fundamentals of container gendening induding relexion of centainen, constriction of containers, and selection of appropriate plant materials.

811 Landscape Construction Design (1)
Lativer 1 foen
Avnywiaiten A Prinuliure BOM.
 frocsh, deckr, ant pavieg). Reviens conatruction materials and dicir inherrnt qualitica. Poepuration of conarmuction dawing.

812 Landscape Installation and Maintenance 1 (3) CSU MPT 1 Lenturr 2 heank lelonitury 2 hemn.
Teater how to install the lanhope work commonty dooe at commercial and residental / plo sites. Includes sod inuallatione woil preparationc turf macovion, tree moving equipment, peuning and surgrys injection freding low beader hane menernactions retrical mething techniquers planting of shruls, trees. Glown, and ground cowes. Comrn ue and cat If operative eyuipment unel by landocying and muloteounce cotw, mocillen, edfen, mowes, wod comen, duliness, and ue of inerrumenes (minvit, buiden levi, ect.).

1013 Landscape lastallstion and Maintenance 目 (3) RPT 1
Lnver 2 hars Indenition 2 bown.
Prrequirilen Aprishorr $\$ / 2$
A costimution of akilh and praction in the inutallation and muintenunce of lenducpe projects. Emphath will be os maintenanoc and burinen nepeon:

## 814 Landscape Maintenance Management (3)

Lenore 2 hown: Lhbercing 2 hom.
Avegwhicen Aprinihare $8 / 2$
Organiation of mascrials, equipenent, and bior for the development of Lundrape muimenance projora. Emphais given to recuels, Biding profich and munapment procedares.

## 815 Biueprint fleading and Cost Estimating (2)

 Enver 1 haw Laloning 2 hourInterpettation of coburnation drwing, and specifications for handeypligg $s 0$ indude gauntiny couets of mancrial itema and estinasing cosss of labor and muserialk

816 Grading and Drainage Planaing (1) CSU
Lnvery I heut
thoper gruting and thiluge methodtoigy in the landrape coustuction isdurry. Fmphatis will be gives to indorcy ntandarls and practices.

## 817 Landscape Contracting Practices (1) CSU <br> Lntiver 1 Nown

Licraing requirements, beuling poucedurs, ant roponitilitier of operating as a licensed landwopic coseractur.

## 818 Basic Construction Techniques <br> (Landscape Coastruction) (3) CSU

Levirer 2 hwere Leloranery 3 hwn.
 anneliens.
facludes fundamental eonorpes, matritis and methode of working wish earch, wood, coocrete, concrete block, boick and soone, and irrigition and Arainage an they apply to ennetruction. Induder profocts, Hionpritr teading, budget informarion, uar of conurnction equiposen and instrumests as related to profects. Isclader operatice of poner equipment.

## 819 Advanced Construction Techniques (3)

Lernire 2 howrs Lehoraring 3 hven:
Prernquinlier Agrinither BIR
Insallation of landscape pmiess with a minimum of inatrucrios and upervision. Emphasis on rexponillity and decinipsi making

## 320 Irrigation Design and Installation (3) CSU <br> Lectave 2 hurs Laferaxirg 2 hour.

Stulin the imporance of intigation to plant gowth an wril at the vatious inethods of irrigative with ipocial cmphanis ou ipriaklen and irmpation minugrmest procelatars.

921 Advanced Irrigation Design (3) CSU RPT 2
Lerner 2 howny haknamery 2 bown.
Prerequinties Acrintwor 620
Deiten of large ienigation motem, including multiayeem operation. savelite programminge locp vitems, pump eyverms, ant inieallation procedurs

32 Turf and Ground Cover Management (3) CSU Levhatr 2 howrs Lalornary 2 hrurn.
5 endies harfgrames, their chaticteristios, ues, ant mampoment Coven ioils, mil proparation, itrigation, ferriliration, insects, weeds, diseses, and special manapensent factors. Requim firdd tipe to mupplement den work.

## 223 Advanced Turf and Bround Cover Management (3) CSU Lenerf 2 downe Lolvivary 2 hwh. <br> Prvenpwither A ©rimbluitr 222.

Indude study of the following topica: equipment used with nurfgas managonents ied aerification and thanch conted infigation, inchating Anainapr requirenents and the use of werting apentes 1 priniter sptem doipm, thenting and equalt dlserse, inxect and wud tirntifarion and conuml lendscape shrubs and tree maibirnasor: menot lirrying and huigeting pecsioned manygement and public mlations.

## 24 Turf Equipenont Use and Maintenance (1)

Lequate I hour
Typer of equipment ased to maintain commercial turf areas (L. e. golf copones, parks, coedominimem), Emphasin in on meloction, operation and maintenance.

025 Estate and Grounds Care (1)
Lenther I hwer
Techniques of plasning and controlling exame and grounds maiutenance and care programs. Dicuwer formal padras, hedges, wreens and ipedal praning. Esfupinent maintrnatnce and scheduling, programming and report writing are dikcumed.

## 840 Introduction to Pest Management (3) CSU

Lecrarr 2 hewnc Lehesary 2 hwor.
Covers the lifentification and control of insect pest commum no yevivilumal crope inchaive of omamentah, the identification and the knowledge and control of commen rovests and their effect upoe agricultural prodaction. Reppaire ilfentif-asion willection of insects by each sudens, and feld woik to muptereent dus and labotitory work.

## 841 Insect Pest Control (3)

Intair 2 houng Lelenuing 2 down.

## 

Presents decailed snady of economkally important insect pests destruckive so plant life in Sourhera Callfornis. Carcfully seviows life Mineories of peits, ariented to efficient cunmol techniques, especially on a comenercal level. Discuses the lates infirmarion on insecticiles and pactical field pectileme. Rerguirs identification collections of inseces, and ficld trip to mupplemest dast work.

## 842 Plant Disease (3)

Intorr 2 hauru Lhbenter 2 hem.
Comprebenine nuly of the cases and effects of diacies in plans, tiscuace the nature of fungi, bucterli, vinus and plopiological plant perblems and heir contul,

## 843 Weed Control (3) CSU

Invorr 2 huar: Anhunner 2 heon.
13enuification, life hintosies and commelr of common, novious and pribunoun weeds weed conerol methods for landaciper, maneria, puikwas and for verious crope.

## 304 Intograted Past Management (3) CSU

Incury 2 hanc Lelonang 2 hown.
Arropuinite Agrinalher 840 and 84 t.
Intrgrand approach to plant pootacion urilining all mechods of pert contol, selection criteris for costmol mocepted, problem solving and recomencadurion writing

## 845 Biological Pest Control (1)

Inturr 1 heat
Naranal approach to peer managenent bated on undentanding agro-cos syotrme. Conerol of livects, mites and venhs uting paraiten and peodame. linctary eqerations, collection and relras methode.

## 348 Training for Pest Centrol License (3) <br> Lecourr 3 hown

Coven the abliect mutuer of the examionion for Agricultual Rat Comtrol Advies Licentac.

## 30 Nomatode Control (1)

Levierf I hase
Paraitic nemusodes, beir ideuificatios, damification and atructure:
Nematode ampling, damugre distase and conerol measare.

## 850 Plast Growth Rogulations (1) CSU

Lentary I houx
Nurumal and eyncheric mibutincer ued wo conteol the gromh of econoesic plants, chrmical characterietion, plant responses, eve and methode of ipplication.

## 551 Vertebrate Pest Control (1)

Levier I hene
 himoties, and control methods. Coven gophers, groand apaintis, mics prats, and othen.

852 Besidential Pest Control (1)
Lectary I hest
Hentilication of asel contril methods for common pess found around the homevtrad, including indoor and outdoss poss, ornamental, fruit, and vegerable pers.

## 854 Pest Control Equipenent (1)

Lesinur 1 heve
Por cootrol equipmeat, types, malatenance, care and toarea.
89\% Horticulture Projects (5) CSU
Lalonaten 12 huwn
O.

Involves planaing, developing, and compieting an individual hortiondrural prodoctino project under the guilance of a facully advisos, on or off the colleye campua.

901 Natural Resources Conservation (3) *UCCSU
Intary 1 haven
Siurear Banimanembal Sidreir 5
Compuifiten Agricalher Po2 fir all NRM moginn
Sarnep the devolopment of ide cosesrarios ethic in the Unital Seans and stroad and human populuiosa in relaion te sameal resounce. Faminer the encogial lutis of comacratiot, major ecoymens, their esergy flow and resousve mlationhipa. Divawes plant and animal populaion dynumion, pollution, and pest control Conen currest gowemment peograms, legiluion, and ativities of coneservelon orgenitations: Snudia proctical asnervaios procelars sad masach
 foeses, fulkeries, willst (induling endangoned upecios), 2ic and opes + puces.

502 Natural Reseurces Laboratory (1) CSU
Lehonatery 2 hem.
Cornpuitite Aerimblerer 90 ?
Inelver pravial feld work in the Natute Center and a mody of natural phen and animal cosmmunities of Calfornis. Isclules malitenance. plenting poto codures, mod conservation conceper practiced in local, stere. and natmand parke Field efipe mequited.

## 905 Ietroduction te Outdeor Recreation (zi) CSU tenturer 2 hang

Siutian the devilopmeat and mungeroest of roral and uthan necreational otuprions. findudo a undy of sumal and stave parks, forots and Sintorial situs. Comen proctiol necrational practios, inclucling the development and aperation of rual and ebboe pinici, swimming boarige, honstack riding, humbing poraerves, and fibling water.

906 Outfoer Recreation Management Laboratory (1) CSU Cahnerny 2 hant.
Cemprititen A pricuhare gos
Invilves field tripu to various local ayencia to olverve and dincuus recreational developuiens, fisilities, and people managemem, Incluilo urban, nual and peivate mocrention epermish. Conest carcer and job oppertunitios.

920 Natural Resources Construction Techniques (2) CSU Intier 2 huars Llennuiry 2 han
Inclubler conuppe of buik plumbing and working wih concrete, mood, and corth an mpted ne wiltland wee sad recroctional fexilities. Thill lyout ad cumarsciont, stram molificaion asl check dam construction includel. Tosches plans, materials, and cisst unshous of projects. Coves use of hand tools and power equipesent. Nirure Ceryon prit agriculturnal atrar will le urilimel for projecos.

500 Maps/herial Photos (2) CSU

Mak cosequs and prinipios of movurce myse and the inteppecation of serial photograph. Inctucler congoutione of land arese, soil and plant cowe and the ilconificative of objocts by symbol or image. Cowess the tue of these nools ar applied to fiedd work and monere mungrment technigues.

331 Nataral Resource Measurement (2) CSU
Levair I hesw; Lelouray 2 hurn.
Tehniques of feld data cullection for the sutural meveres, inclualing
 collection methodh, atd the orgeniatios and ptosmation of fied deta.

900 Introduction to Forest Managemest (2) UC:CSU Interer 2 henn
Fresens the hineory of forestry and the lember indants the divecloposest of ile peofeakos, forcat leginlaios, and the fivess movicas, its mangement and urilization, Sudies the vaions disciplina and sdences imvelval in furst manuprincht, fotestry as mlaned to emiennment and veckity, in sopleer jab opportuitio.

941 Forest Management Laboratory (1) Labenciey 2 hem.
Cornqwinitues Agrinishurr 13 io
Invelva praciical wodk, forot manery procedures, thee idenificarion, tree
 the fovit an a multiple -uk nowinc. Fiedl trip to selected locariona: Includer civer and pb epportunities.

## 92 Urban Forestry (2)

Lenarr I harr lalvengry 2 hearn
Seutica the emerging inetrot in devclopiag and managing arban foreas. Inchale the eminiomenal usea and berefies of teees in the lebua eavirommens atreet tee and park phatinge windbraks and climase moderaxing effects. Coves the we of tress as an energy monve inchusling mescling and fixiwood coscepta. Fidd tripo required.

## 944 Clohal Forestry (2)

Lemerr 2 ham.
Praninat the woild's fousb, their ewent, uanus, and values. Discuser the culumal and noxial valose of forests, and their valas in world economic devchopusen. Include currest ineves of defowcratine, global wanning and repofoerang: Cowes camer appontunitios.

## 950 Introduction to Wilalife Management (2) CSU Innorr 2 hown

Presens the hisory of williffe manapemest and cument willife problens, in lading che ecolovy of wildife, migrational pusterns, and populatine dyamica. Considen the erserging namional hotetar in wildife and reviews willifr liverature and anocis.

551 Willife Management Lahoratory (1) Lahmining 2 hwork
Animal special lice history staty and field Hentificaion. Felld tripe to vatious willlife mamgerment agpocies and wras. Pructical work in habies analyih and improwment procedures. Caverr and job oppormmikies.

## 960 Wildland Fire Science (2) CSU Lnower 2 hwen.

Pruilies the NRM major with a findamenal knowledge of the factorn Afouing willand fire juwestion, fire becharion, and control nechnigna. Coners fire endiggs cflocis oe odier moorcos, and the tere of prescribel fite.

961 Wildland Fire Science Laboratory (1) Labventy 2 huen
Caregwinitie Aprixaluser gat
Combinos field riip and the application of vilhland fire science and comend peocelurer to the developencut of a fire conerd plan. Emphasine
 to fire prutection and contsol.

## 970 Range Management (3) CSU <br> Lnture 2 hast Lelvnitiry 2 heme

Applies principles of tange mungerenent to the utilination and
 niti conditions, and evinution of limeriock graiog problen and practions. Enphanisen California land conditions. lacluiden several feld tripu for observation work

## 975 Calillornia Native Plants (3) CSU Lntarr 2 hount Leheneang 2 hour.

Neive plame of Southern CAlfonmis. Pmphutises identifiction, plant onnernuiny conorpet, and native plans acologec Cowen de uee of idencificution heys, clanificution cuscrpas, and managoment inpliartions of the vanious wgeration eppes. Intended primarily for NRM majon.
185 Dirseted Study - Agriculture (1) CSU RPT 2
225 Directed Study - Agriculture (2) CSU
385 Directed Study - Agriculture (3) CSU
Coglernere I howr fer wix.
Allow snulenas to pueser Directed Sentr in Agricultues on a contract havis under the disectine of a mpervibing inatrictoe.

## 911 Cooperative Education - Agricultare (1) CSU RPT 3

## 321 Cooperative Education - Agricultare (2) CSU RPT 3

## 971 Cooperative Education - Agriculture (3) CSU RPT 3

## 5 Si Cooperntive Education - Agriculture (4) CSU RPT 3

 by der मipsenury of ihe Coppromer Bhwatien Adrius
Supervisel emining is condocted in the form of on-the job unining in an enployment arci fuit wift enlunce the itudentis etscational goals. Limits te inangfer crulith Ser Coppmatior Edenation Ondiv Guilh.
ve Cradit Limith Manimum of ear cisins.

## American Sign Language/ Interpreting

## 1 American Sign Langmage I (4) UC:CSU

Lenture 4 hown.
Nirmally offred it ite finfl memeier anh
Deviops haic vocabulary and gaumar of Amerian Sige Larguger Emplunis le placel on necprive alille. Tacoperates vinal upecs of the Deaf culuare and communings.

## 2 American Sign Language II (4) UC:CSU <br> Lentior 4 hosen.

 npwinalat.

Completex the ansty of elementary vochblary and gramman. Increaned denelopmest of inflectional and eommamual behuiar pancisa. Incorporsion of elected aspecr of Deaf cultute and conumaniry withis necepeive and exprowive comernsions.

## 3 American Sign Language III (4) UC:CSU

Lecher 4 hown.
 Aetier ar aywhilest


Costinued developmest of American Sign Languay grammat, with spociat emphasis on Tidismatk conainsoctons. Provides further development of convenational mechniquer focusing ee esprowive ikill. Eypanded stady of Deaf culrural tames.

## 4 American Sign Language IV (4) UC:CSU


 Normally nfland is she Soring irmeter selk
 development and refinment of Anserican Sizn language skill and flococg: Accennuate apecs of Deif culvert and comminiry through spontaneouly gencratel coevenationa.

## 5 Introduction to interpreting (3) CSU <br> Lnther 3 Kown


 Airmally nflend is she Sprivg umeuier and?
Sarnep the buic theorics, gulbetines, principles, and practions of interpitting/ tandiectation, induding an historical overview, role of the interpteter, and andywis of various sign yystrma.

## 6 Voice to Sign Interprating I (4) CSU

Lnctury 3 hourt Lalenairy 2 harn.
Prenguithiter Amerione Sign Lavpoure fand 5 wibl a grade of ${ }^{\circ} \mathrm{C}$ ' er bermes
Sygnind csocamser randliwent is Amerioes Sys Levgege Ia

Lertere Develogment of roice-vo-ign isterpeetiog/tranalinerating vith on a bepinaing ferel.
Labanatary Thoride the inverpruer elucation mulent with Thasd-an" experience in the interprecing samurion. Scudenes will have divected pracioce in inteppreting a varinty of commanication seriipge, dialoguer, nurration, and lecruren

## 7 Voice to Sign Interpreting II (4) CSU

Lamer 3 hume Labonding 2 hawn.


Recommended Explah 10 O.

Levtwer Continues development of vilo-1p-sign inserprering/tramalierraing tills on an istermeliare level.
Labunterys Providen the interpetere coluarion stalente with "hands-oa" oppecience in the inuerpueting sinuarian. Scubents will have dincoted practice in interpeting a variey of ommunication setrings, dalogoce. narnatives, and hectuice.

10 Sign to Voice Interpreting 1 (4) CSU
Lenture 3 bowen: Lelovetary 2 hesent

 Narmally yifmi in ile Fidf immerir mbly
Lechew Developnent of sign-so-vice interperingtrandiverating techaiguas and principles of a beginning level.
Taberntere: Pruvide proctiol applicution of ilgo-so-roice necheipes and experiestial developinent of tign-10-volice skill.

11 Sign to Voice Interpreting II (4) CSU
Lerwire 3 hown lehunaing 2 burn.



Nirwell ffimd in athe Syrive umentry enly
Continoa developunent of equ-to-vike inteppering/ wamblitrating skills an an alvancerl loel.

## 12 Specialized Interprating (3) CSU

Inture 3 houn
Arropminiten Amerioen Sien Lavinare 6
Normally affind in itr Yring imentior ang
Developo suden's kuraledpe in varioos pecialiand arras of intepeting for cumple; elucrianal, relgious, legul, and medial.

## 15 Uinguistics for Intorpreters (3) CSU <br> Encrave 3 hown.

 Linguiatia $I$ or equindime
Provide the student with informution and reseach concenting the
Photeric, moaplanlogizat, potacric, and semantic propertien of Anerican
Sgn lagguge. Cowen ncurolingulatios, popcholinguisiox, and


## 16 Creative Signing (2) CSU

## Inther 2 hours

Prempuinite Asiviaur Sijo Leqpuger 2.

Nowmaly affirnd in ile Ridll armeirre ashy
Srudies techniques of facial exprotion, charactertasion, body mememsent, and putializarion an it velure 60 Ametican Sign Languge. Developenent of exponive ign languges ,kill throuph the une of poergs, wing, and skits.

17 Ethics and Professional Standards of Interpreting (3) CSU Sennere 3 hown.
Proreqwitite Ammican Syow Lannuger 5

Narwally affornd in de Fill umenter asly
Discusion and applicarion of the Code of Ethicr publahel by Reghery of Isterperter for the Deaf. Provider expetiencr is approperiamly solving ethial peoblems melated tes the proferional envirenement.

25 Americen Sign Lenguage Laboratory (1) CSU RPT 1
Lalonutiog 3 hown:
Cernquibite Amurrizen Figm Lexneger 1 .
Puvides opportunities for pescikal ceaverarion os everyday sopias, cultual material, and eapansion of vocibulary scoonding to stadent interes or nexd.

30 Fingerspelling I (1) CSU
Lalowtang 2 houn.

Normatlo offiond in ate Fill woment ont
Derclupe shills in cepresive and recepive use of the Masual Alphiler. Drals with specificicistividual perdicms and tochniguer for coerootions.

31 Fingerspelling II (1) CSU
talimuliey 2 lewn.
 quilebuc

Cominued devolopenent of exprosive and mocpóre Manual Aphabet will.

## 40 Introduction to Deal Culture (3) UC:CSU

Ieciery 3 hans
 nurblinent is Amerian Sife Lenpuge 1
Normely effimed is ahe Find ermenter anly
Ceven hisrorial, philonophical, edacational, pyehological and nocial apects of she deaf and howing impuirel. Emphasies Deaf cultuike and the sxiel peoceser sffecting end infosocing ie member

185 Directed Study - American Sign Language (1) RPT 2
285 Directed Study = American Sign Langunge (2)
385 Dírected Study - American Sign Language (3i)
Compresar I hur fer nsic
Arempuifite: Anerriceen Syp Laspoapy I er equinalise.
Allows studens no purue Directed Sculy is Amerian Sign Langage oe a contract hali ueder the divection of a mpervining instructat

## Anatomy

## See also Plyzsiology

1 Introduction to Human Anatomy (4) UC:CSU (CAN BIOL 10)
Lenour 3 howes laluniney 3 hown.



Thovido a bask coene in humar anatomy. Induder lectura and demonerratioes ve humis organs and oppas yporme. Requira each sublent to dinect mammalian orgate that are comparable in mencture to the hurran eqpas, and to work with a dimened liuman calver:

## Anthropology

## 101 Human Biological Evolution (3) UC:CSU (CAN ANTH 2)

 tawarr 3 hewn.Explora the field of Bislogical Anduropology emphaiting the evolution of the human ppecies. Topia include buman heredity, mectuanium of enlarionary changs human variation, and the reconimuction of humas molurinaary hirmony thoough examination of dhe fowil mecond and compurative statio of our clovest Liological relatives, the living monkega and apen.

## 102 Human Ways of Lifec Cultural Anthropology (3) UC:CSU (CAN ANTH 4) <br> Lntarr 3 home

Presens a beoad surny of humun cultarr induding the staly of haman nociegy langays, religoos, poltical and economic esganimation, with examples drown frome cosiempotiry preliterate, pewint, and wrlan ancietien.

103 Archaeology: Flecenstructing the Human Past (3) UC.CSU Lniant 3 hourn
Coailders Anchatology an an inorgul purt of die larger fidd of Asthopologes Coune deals with the mechods the anchueologite wea so vies the worid of the past. The methode discused illuerate the techniquen used by the archumbloght to guther and inneppert the dira necowemf from enavation.

## 104 Muman Language and Communication (3) UC:CSU

 Lncary 3 hourn
Thit imturoductory couss in linguitios warvess the grat variety of weps huetuans communicate, both verbally and nob-verbell. hocure on the strucrure, fanction, and history of language, vilh melections on the sodiology and pychology of linguags, languape learning, and the orlgins and evolution of languge.

## 105 Prehistoric Pooples (3) UC:CSU

Lentart 9 hese.
A sarver of vorld purhintory from the earliest evidesce of dee origho of culnure so the developencat of uhbalitation. The pechisporic proces and sequence for variou partu of the wodd will be camined, indoling Elasope, the Americas, Africa, ned Alis.

## 111 Laboratory in Human Biological Evolution (2) UC:CSU



Offien laboratory explotation of selected tepias in bidogial anthopology induding gremios, humun variation, the living primates, and human paleoutology:

## 113 Fiald Archaeology (3) CSU RPT 1

Lever I heari lelinutary 6 hown Normally effremd in ale Syrige iemerer anh
Procne an iumshaction to the theory and mechod of field work in Anchueologe. This io $x$ clan in archaedogial ecaration and erlared dam gadering methode. The couse emphaike firld mechniquan through wrual andent participation in eccavation, ruiney wad related fell methoch.

121 Anthropology of Rolligion, Magic, and Witcheraft (3) UC:CSU Lenture 3 hear.
An anthropolegical reamination of the phenomenon of eligion. Emphais will be ploced upoo how religon it intrgased inse culture. The course indsles an exuminaine of the iless thar hive been develoyed ly anthropologives abour how humuse erbse to their movion of the мирепанйа.

## 132 North American Indians (3) UCCSSU

Intwer 3 houn
Offers a beos eurveg of the Ameriom lutims living nonth of Maxion Special emphasis in placed on the Ietiane of Califomis. The veioner abotiginal groupe nurveped are viewed an they eainel at the time of hinterical contact.

## 141 Medical Anthropology (3) CSU <br> Lncurr 3 hown.

By comparing $s$ wide tange of different kinds of health/healing vyoums in ancient as well as moders nations, this coune ecamines how merliclee
 Practices in China, Isdia, Eppt, Fenu, Mesien, and Canala will le enmpard. However, focus is on the U. S, and inchader ourrent ivoun nuch as everimomental and sociat causes of Jiscoses righes to tiveldic, priventive hotirtic care, milporut heaingh, genetk enthocering and eletrally puid inaurance pograma.

150 Current Topics in Anthrepelogy (3) fUCCSU Encurr 3 bown.
Dicunsa selecind rupla of current inarrot in the fidide of Binlogial Anthropelogy, Caluual Anthropologe Anchacology, and Lingoitica.

105 Directed Study - Anthropotogy (1) TUC:CSU MPT 2
285 Directed Study - Anthropology (2) tUC:CSU
305 Diructod Study - Anthropologr (3) +13C:Csy
Cosfonner I her fer anit.
Avenguilite Aor tae of dhe fillosidg awerve
Andropaligg 101. 102. 108, 108.
Allows atudents to punue Directed Senify in Anthupalogy on a cantract bull under the dictotint of a mperflting inemacios.

## Architecture

UC Credit Limit: Msximum of 17 units.

## 1 Introduction to Architecture (1) UC.CSU RFT 1

Lntive I hars
VC. Crafir Efmits Maximam ane wait.
Inroductory course explaring the fields of archimeture and constnction
 constraction tochunology progeams, Visin to architest' affices, builling slims, and atvanced schonts of athinectere.

## 5 Architectural Drawing 1(3) CSU

Lextarr I hour: Lehevetry 5 harn.
Tesches the tectuliques of amchitecurnt drafring, is oneventigos and verivols ithmugh the perparasion of aimple conornktios drtall and frawings. Survey the scope and penonal requirnsenes of the sthisectural prefenives and erlated building maite.

## 6 Architectural Drawing II (3) CSU

Levium 1 hwor Latenaning 5 kvurh

Develope drafting ikill and fundertental undentanding of builling hy preparing working drawings wilh necouary detaile for wood frame ciestriction.

## 7 Architectural Drawing III (3) CSU

Lnawr I hrur Infruang 5 hanh.
Prorrifulithe Anfitanurr 5 or 6
Offers a mudy of consurnation methoh, materials, and builfing bedinances. Requires studens to prepure detail Arawings for comernercial bohltimp, in citicoete and ited or ilimilar problent.

## 8 Architectural Drawing IV (3) CSU

Lenarr 1 heac Lalovining 5 hown-
Averpwifite Antitinair 5 er 7 .
Offen a snady of conatruarion merhodk, materials, and building onlisancen. Peepuires stadeast to propare dexign and porcliminary drawing for small commescial ype building of similar peoblems.

9 Elements of Design Theory (f) UC.CSU
Lensure 1 howe Lablonieng 5 hewn.
Intuoloces the principles of two dinsestional derign comtmen to architgoture and vival arts. lategrases the chengy of archinenural derign wich historical and cultural foundations. Developa analyical shels in virual penception and ciitical awareses.

## 10 Freehand Drawing I (2) UC:CSU RPT 1

Leover 2 howne Liberating 2 kan .
Cempuinise An ditiocturt 12
Drwing ability as developed primarily by pencil, ink, and watescolot. Sevidy is made of compostimn, frem, value, and sole, and centess mainly en drawing development emploging achisectiral forma.

12 Architecturat Renderling (2) CSU Inture I Narr Lelvinatig 3 hown. Corepwinites Anditurner 10.
Teades the enchaiques of graphic melering eaing various medie. Sumser boch fertuint drawing and drafting boand meshode.

## 15 Applied Descriptive Geometry (2) CSU <br> Levart I has letwaw 3 hown


Prempuitite Owe nemenur of andiliniser:
Povide trining in de amilyis and solution of orrhograplic propoction protlemi. Finphasir in plocet on odving throe-dimentional space problems by expoure to and interpreation of poinas, lioes, and planes in primary, worondank and mecenive ausiliary views. Theory and pracice are Edabol thue involve visualiuation and graphic nepresentation of inserwacions, angen, parallelium, perpendiculavity, and revolutions.
dikiplines related to dolgn and induarrial rechnology:

## it Stranpth of Architectural Matorials I (3) CSU <br> Enciur 3 hem.

Includer naterial nelarive to the atengeh, mechanial principles and design (uereace, irnions, compreaina, aheat, and beading) of beilling materiak, and their user in foumderios, floos, walh, cofomns, and roofe.

## 20 Methods of Censtruction (2) CSU

Inctarr 2 hour.
Emphavisa mechods of conertuction in wood, steel asd cuncrete.

## 21 Materials of Construction (3) CSU

Lntwer 3 hemes
Prereqwinife: Anchimerver 5 and 20
Scullies the matuer and characteristion of materials, along with their appogetue the for given conatrucrion purpose.

22 Equipment of Buildings (3) CSU
Arrequiniten Andionzuer 5 asd 20 .
Applis the baik priaciples of derigh, eclection and operation of equipment in bultinge to wates, plumbligg heating air condicioning lighting and scoustiox.

## 23 Construction Extimating (3) CSU <br> Intarr 3 hourn

Scadies methoch used in determining quantivies and corss of labor and materialh al related to conatnuction.

30 Residential Planning (3) CSU RPT 3
Lncuarr 1 huar, lalowien 5 hown
Prerequiaite Astinecture 5.
Offes a stualy of the single family neidence, ins layout, livealility, size. stiestation, comt. furnith rop, equipment and deconvion.

33 Basic Architectural Design I(3) UC.CSU
Entwer 1 heur Lehining 5 Bam.
Arexpaition Anchimaire 5 and 9
Explome the natur and limitavians of materiah uring reo-dimenvioal smadios of form and composition in hlack and whine and color.

34 Basic Architectural Design II (3) UC:CSU
Lenury $I$ hewr Likenueng 5 hanc.

 dimenional composichana.

37 Computer Aided Design and Drafting (3)
Lemer 7 /har Lefvatary 5 han
Armpuiniter Andiburnirt 5 and 6
An introduction to ceempener driyn and draftiog for achincrour.

41 Architectural Model Building (2) UC:CSU
Lenom I hoor hhiveng Ihen.
 conimating anchinecrural utuly model.

52 Concrete Construction Design and Practice (3) CSU Inmer 3 han.
Offer a pactical hatrodocion 10 modern coscint devige theory and comanktion practices af engloged in the comauction of fuilfinge, roudh, flood conerril woiba, and mbectlisseres umastures.

## 185 Directed Study - Architecture (1) CSU RPT 2

285 Directed Study -Architecture (2) CSU
385 Directed Strady-Architecture (3) CSU Coffewnir I har per naik:
 baik mader the dimetion of a mperviing inetrictar:

## 911 Cooporative Education -Architecture (1) CSU RPT 3

321 Cooperative Education -Architecture (2) CSU RPT 3
931 Cooperative Effucation-Architecture (3) CSU RPT 3

## 91 Cooperative Education -Architecture (4) CSU RPT 3



 Supervied unining is conducrelt in the form of en-lhejoh, uriering in an


## Art

## 101 Survey of Art History I (3) UC:CSU (CAN ART 2)

Lenver 3 hann
A wirney of inflincturs, scifpture, and jainting frime the perhimoric. ancient, damioal and medienal perioks.

## 102 Survey of Art History il (3) UC:CSU (CAN ART 4)

Intiver 3 ban
Natre Art 10 t io net a finmywiatr fir tom
A suney of paiming sulptum, and anchitecture of he Wouern malition from the fomerenelo cratury to the iwentigth centurg: Sialy is piven to sole konogroflys and the social, pulisical, and economic cosecer than accompanie a work ef ant.

## 103 Art Appreciation I (3) UC.CSU

Lnture 3 hans
Furthen the undenuanding and appotcistion of the vinual anse.
Recommended for the moe-Arr majoc. Rocommended bur not requined of Atr malipe:

## 111 History of Contemporary Art (3) UC:CSU

Intwer 3 han
Cowes mujor tends in art fiom 1900 to the petsent day. Whrks of art ane presened throogh slide posentations, clan discunion and Geld uips to musmam gollerics and antise' stustion.

## 132 Technical Illustration 1 (4)

Enture 2 dvans laloseing 1 ham
Thit onenr my met he nfferd eant nmenuer Chet pour carmar Stendile of Clomes.
Offes prodaction lluarration with paricular anmention no the principla of hometric drawing and indudes the trampositios of onhograptic virws to theee diememional hoonerrk reppesentation.

## 133 Technical Illustration II (4)

Lecmere 2 huan: Lhloweng 4 hourz
Averepuititin An 132
 Sthetur of Clatim:
Continus Technial Tlustration I widh amridal projects, and intradues muitenas so areas of ehterurico, churs and gaphs, indastial porten, and various rypes of viaual aib.

## 134 Production Illusstration I (4) CSU PPT 4

Lernere 2 hwer: Lhwewny 4 hour.
Ammpuinite Ant 138

Sotulule of Cleine.
Further eytores arear camaet in Ant 133. In ouldition applo the we of onthogrephio and two point penpective to the Trchnical fich. Feochuad illumtarion techniques are developed. Pemdering merthode of terchalal art fir specialiend erpmilucsion ase sudied letesduction tw Apple-Maciensh compuer fund mmath with bark propets it orhoguptit formar.

135 Production Illustration ft (4) CSU
Lenrire 2 heans Leloneting 4 hisn
Prencquititien Aot 134 .

Showly of Clem
Conen adrancel projects inancticic timesik, uimerric, and penpective
Ilurration. Eypands suslens' liverelelge of the soume of nechinioal lluatration. Major illustraions are cocruned in the arran of explodel
 will crene 2 and 3 dimenalonal duwing on sote of the ant Apple. Macintuht equipment.

137 Arclitectural History I: Prehistory to the Middle Ages
 Studik of Clame
Coven the himeny uf antimecrue from prehinory so de Middle Agos. Sumses developenest of typology an weil an an cumination of die inflaence of iocial cultural, meligions, political, and economic conilitiona that isfluenced chunges in foem asd seple.

138 Architectural History it: Late Middle Ages to Modern
 Solndibio of Claum
Coven the hisungy of archinecrure from the Laie Midile Age is she ootern perind. Focuise lie changing ryper, as well as on tochnalogial adrancruens in beiting materials. Liberary movewens as well a social. ecobonic, telyious, and political iefluenco will be suesel.

## 133 Architectural History It: Modern Architecture

 Sinulal of Clame.
Cines the malem period of archirecture, camining the clanging nopr of mechitecturat tpres, the influmger of Aubloce, the theoretical shool literary memements, and the exiopolitial impect on the look of buildinge.

## 201 Drawing I (3) UC:CSU (CAN ART ह)

Lerwerv 2 hurne Laheratery 2 hww
Invilves a variery of itellis, entpoaliting vänal perception, critical
analyoin, art fundamental, and culrunal hispory of drawing.

## 202 Drawing II (3) UC.CSU

Lecourr 2 henny Labovierg 2 hwor,
Prernquisite: Art 201.
Extende the experiesten of hatk drawing with upecial emphasis upon picarial organaation. Seresses hintorical cultural exdation of derring

## 204 Lfe Drawing I (3) UC:CSU

Intwiv 2 hasce lakenatiry 2 hwors
Sneller conurvation of and composition with the human Efgurs. Seremen stirical analysir of the texe of the figure in hintorical cuetest.

## 205 Life Drawing it (3) UC.ESU

Levterr 2 hawn Lakonang 2 hown:
Prempmintien Art 20 O
Cantinuatios of Life Drawing L, emphaiaing figuse coseatruction and onmposicion applying a variery of media and concrpos.

206 Life Drawing 目 (3) UC.CSU
Prevequiniter Ant 205 .
Lectune 2 hours laboratory 2 hours. Continastios of figure comenserks and compnition applying a varisty of modia concepte.

207 Life Drawing $\boldsymbol{N}$ (3) UC:CSU
Leverr 2 howry Lelveveng 2 hean.
Peverpuiatier Art 206.
Cominumetion of figure cunstrucrion and semposition applying a varicty of tools and technigan. Independent projecss are steneal.

## 209 Perspective Drawing 1 (3) UC:CSU

Lentirer 2 Avwrc Laherationg 2 hwn.
Derelope the undentanding and mamal talls necesary in the making of drawtigs, which sccurately mepresent thee-dimensional firms ia ose; rov- and there point perspective, with meleiple mecundary vaniahing poinm.

## 300 Introduction to Painting (3) UC:CSU (CAN AFT 10) <br> Lenture 2 hant Lakunary 2 hann.

Sereves varicty of technigues in was of mellimm. Emphatis on culeural hineory and critichm in fedd of puisting.

## 301 Watercolor Paisting 1(3) UC:CSU <br> Lenner 2 hewns Lalonstary 2 hars

 Solvedub of Clames.
Olfers acperience in a variery of fechniques. Fimphasis on culural history and crificiem in firld of watercolar painting.

302 Watercolor Painting II (3) UC:CSU
Leviwer 2 howns Lalowengy 2 hown,
Arnofminiter Arr $30!$
 Situndie of Cleme.
Comiluarion of Whaterculor 1. Emplanis on composirion thernagh perurpruat and cosicrpeual approaches. Theorg, hturery, and criscims is field of watcrcolor puinting:

[^5]305 Acrylic Painting il (3) UC:CSU
Levare 2 hwers Lhionuang 2 hasn
Prencquinition Ant 304
Cominuarlos of Aer 304.
306 Acrylic Painting III (3) UCCSU
Lenher 2 howt Rhondery 2 hown
Prompwitite Aer 305
Continturion of Ant 305.
307 Oil Painting I (3) UCCSU
Labrutey 6 hoen.
 Solvaluir of Clean:
Sueses skills and techniques in the medium. Boeh eriditional and
cuntemporary approsios to idess and materibh are explored an a meats
of developing personal and/or punfeninall exppesion.
400 Introdaction to Printmaking (3) UC:CSU
Innurt I howr Latvenang 5 hior
 Solvitir of Clians.
Jutroducen sudenta to hatic primumking procenea nuch at enching
sillaciens, lahopaphy, wood hlock and linolcum block printing.
401 Etching I (3) UCCSS
Leciur I hown Lalunaing 5 hown
 Sitedake of CIume
Punhbs instrucione in crulitional and conternporary former of etching and rdined insuplo poixnice.

402 Etching il (3) UCCSU
Puregguition Ars 401.

 simplel fichen
Moviden further eophatation of etchisg and related intaplio procesan mach is entoisot prists, collugruphs and engraing. Emphurises colar printings

403 Lithography I (3) UCCSSU
Lerarr 1 hawe lahnatig 5 hown
Rovemunesded At $20 \%$

Siviule of Clame
Invoducos undents to mativiosal mechods of lithogropho Coven a
lintory of printa. Intrgaten theory and pecicricr in a historical founderion.

## 404 Lithography it (3) UC:CSU

Lnvert 1 huen Lhtorawigy 5 hown
Avrequinitie Ant fot
 Strulule of Clime.
Contimuc sudy in lithography by intuducing unukests to contemponary procesies. Discinver marketing of puincs.

## 405 Sillcscreen Printmaling I (3) UC:CSU

Invarr I her, Letonatery 5 hewn
Rocommendedt Ans 400 am 501 .
 Stundite of Cleme
fentoloca studens to the bwic sillsien procesor.
406 Sillascreen Printmaking It (3) UC:CSU
Lectare 1 huart Litunuing 5 hewn
Prompuinite Ass 405 .
 Stinher of Cleons
Students further explore the ponibilitia of the willacren procen, gin an enhancel critical awarnexs, and learn about the marketing of prints.

407 Relief Printmaking 1 (3) UC:CSU
Lectier I hown Lalonaigy 5 hown.
Anvennended Ant dow.
 Sidwhele of Clines
 lisoleum block printing.

408 Relie! Printmaking II (3) UC:CSU
Lenour $I$ heers Lhonitry 5 kiem,
Peverwifith Ant 407
 sitndil of Cliam
Tamoluces contemporary and eperinental formu of iclinf petinting ruch as collagrepts, embowed prints, plener princt, and poper nuking. Furkher develope suthrical akis. and critical amalyir.

500 Introduction to Design (3) UC:CSU
Lernur 2 hars heleningy 2 hans
 mpinc ale mewmesidf for Ar meins
 Sotult of Chime
Provides an introduction ma an, Imegpats dhe theory of doige with hineurial and cultural friandations. Applies havic desiyn wachivipos no problena in visual percepeion and ctritical analyis.

501 Beginaing Two-Dimensional Design (3) UCCSU (CAN ART 14) Legratr 2 kewn Liberusigy 2 hown
A miaimum of 5 hous per wekk ounside pequaraina is mequina. theroduca ibe clemens inat piliaciter of two-dimeisimal deiper ceenmena se the viwal arts. Integrate ile theney of devign with Siutariol end culturnl founderime: Applies havic deign nechniques to probleme in visual perceptioe and critical zulylyis.

## 502 Beginning UCCSU (CAN ART 16)

Leviart 2 hewns Laleratey 2 haen
Intushices the putaciples of three-dineneional design unilining a varinty of techniques. Iotegrates the theory of deife with hittorical and onltural foundrions. Developu anslytical skill and critical entarnon.

## 604 Graphic Design 1 (3) CSU

Enaw 2 huw Lelonutary 2 hum
Adiving App. Ans Sot
Introdocrory paphic daigu the firld, in memiedoges mols and wodling meftod. The pooblenn/projeses comint of guphic desipe anifnimens for velead melia. Iatmdacinn te computsr graphicr an the Mac.

605 Graphic Design it (3) CSU
Lemere 2 hars Lalvouling 2 hown
Adncion ther. Art 201
Arropuiritei Ars 60 O
A comtinuation of the principles of Aet 604. Projecs in adrentining pultiotine ilorign, puctaging and coppeate identigy. Concimuxion of competry griphica of the Mac

606 Oraphic Design ill (3) CSU
Leviare 2 humy Lalunuary 2 heen
Permpuititre Ats 605
Contiauation of priecipien of An 605. Graphic daiger worlahop inchuting computer grathica. Enyhutis on copporatr identin Cloges, lenterheadr and promethonal cenmanicaione.) Porfolo preparates and enaluerkin.

613 Graphic Design (3)
Lnther 2 have laloweng 2 hem
Revammendodi An 50t end 201 .
 SHale folmes
A coune intsoducing virual commumation with emphanis on deige. Lyous, typogaply and M $x$ compontrs. Problens consies of gaphic daign amigomens fir selecred wedia.

614 Graphic Communications I (4)

Alommondit Art 5er, 201, and 67 A
 Situdile of Cleme
Introdices vimul conumurkation with emphath un atretthing ant and dexign. inchaded are priacipler of advertising advertining media, liyouit. lensring, and the perparation of armook for printiog, lineoduction te Max compures, and gryphic appllcatios. Ingenuler, Firehund, and Thiseahop.

615 Graphic Communications II (4)
Lexisv 2 bwers lateruting 4 hewn.
Prempuitite An 614 :
 Situdite of Clum
Continuer Ant 614 with geater emphavia upon graphic doige aklls and hacslelge of centrmporay procesics in layout, putpuration of artwork, nel prieting process ws they relote to the wouk of the strenibing delpees, Furker nefining of computer skilh with logramiks, Firehand, and Photeshop

615 Graphic Communications III (4)
Entarr 2 hewne Lelinungy 4 hewn
Armputirte Art 615
 Schodair of Clime
Continus suaties in advertiing praphic desige and layous, tllueration, phoocgraphy, and the operation of a graphic compuser sorbsuitinn that venlf be umel in a lob tiruatione.

617 Graphic Communications IV (4)
Levarr 2 hars Lelostary 4 hown:
Arverpisite Aet G96
Roviews and cacoult ile facnal matrial and pracrical akilh induded in previons ceuner. Includa peeparation of a portfolio of stadent's work fore use in ohtuining employmens.

## 620 Illustration I (3) CSU

Lener 2 hatm Leloratiry 2 doun.
Averpeititue Aer 201, 209
Appliar tamk draving tocticipurs and deyipe principlos to problems in atveribing asd editorial illumraion. Sendena will explor a variery of medis and appmaches oriented to conemporary demasde in the fiveld.

## E2t Thustration it (3)

lenure 2 howe Lhlowarg 2 houn.
Aronpuitice An ©OR
Costinuer Ant 620 widh ailitional emphaik on the use of makeren for the postactuit of fift cotor cionprehenuine drawing and illuarrations. lntuodoces the une of cemputen for thamernion:

## 622 Illustration for the Graphic Artist (3)

Lentive 2 hwna Lelenomery 2 hours
Prrepwinite Aot © 2 !
Extendr tavik principler and practice of advertaing fllumextion te problewa in graphic deaign and lagoue. Projecs indude the coontination of ilimitratien with photography and other vinal melai. Composen ase uod in peeparstion for cansers-ruly at and graphika.

## 700 Introdection to Sculpture (3) UC:CSU

Lniart I hevr lahnewny 5 harn.
Thuido eqpetiences in doligning ind excuting rowipural fuems machical operiescos include modeling, caseing and fabeicaing with sculpural metia. Hietorical and cultural antrocelens are dincused wihh emphasis ot deviofing roulpound mevenes.

## 701 Sculptare I (3) UCCSU

Levore I hawr Lallenueng 5 heor.

Cuminuas Ant 700

## 做 Sculpture II (3) UC:CSU

Iertart I huan Leheraung 5 hown.

Conninuation of Ant 701.
20 Seulptare III (3) UC:CSU
Lecrart I hours Llevelong 5 hewn.
Arenpuititue Ant 702 wish ${ }^{\circ} \mathrm{C}^{\prime}$ er leluer
 Siledure of Claine
Contiouation of An 702.
78. Introduction to Ceramics (3) UC:CSU (CAN ART 6)

Lever $I$ heor; Lahenatory 5 heurn
Berommensiod Aor $50 /$ tor 502
Posent havic ceramic deige and conetraction techniquer induling handbuilding whed forming nurface corrichuest, fining, and frimg Enptaturs delign and crafumanship. Sarnge the hinmincal ripnificance of ceramik art.

75 Ceramics I (3) UCCSSU
Leraur 1 huar Lhenuting 5 hown.
Arrmpuifine Ast 708 mith a gneld of "C ar lower
Continuation of Intuoduction to Cenaika with iacreasing emphais on wheel forming, flase formulatios, and kiln management. Seteso further the concepes of derign.

## 710 Ceramics II (3) UC:CSU

Leromer therr Livivang 5 hean.

Cominuation of Aet 700 with emphais on individually planoel proinas.

## 711 Ceramics itt (3) UC:CSU

Lecuarr 1 huar: Lituntorg 5 haur.
Prowpuinitue Ant 710 wivh a gride of ${ }^{\circ} \mathrm{C}$ ' er frouer
Concinuation of Atr 710 with an increased emplanis sen indinifually plannet profers.

221 Introduction to Jewelry (3) CSU
Incure I hars Labennery 5 heurs
Pernes the condruction ant/ar fatciation of jewely an mady of ihmedineminnal deign. Introdsen varied eperiences in working with preciosa and other merall. Emphaita is on indivihaliny crafumanahip.
 techaipe ane aloe mouled.

## m2. Jowelry 1 (3) CSU

Lenarr 1 har: Lelonuing 5 hewn.

Cantinges rhe unaly and mentraction of jemely and menal drigen wn well as che himory of jewelry an an anr form. Emphain in upon indivifual amarenea, experine, ctafumamig, and expaimenatice wiht threetimentieal fliem.

23 Jewelry II (3) CSU
Levarr I heun Lhevaung 5 hears
Previquiliten Ans 722 with agnele of 'C' er lenam
Cotarinas the explocation of varisar fices of funcrionsl and antifunctinaal jewrly and meul expention. Pronide eaperimce in esameling, ropoume forming, erching, and other methols of werface decoration and meal fatricarice.

## T24 Jewelry III (3) CSU

Inturn I hour, Libuewing 5 hem.
Aernquinton Art 723 wiib a grobe of 'C' ar Lrwor
Cobinues advased vechnijpes and daigr coscepti reluive no jewily Ghelication and form Encoarngen the ase of new materids with the trulitional. Trovider fursher experience in a varioty of hitsuicil and


## 125 Directed Study - Art Honors(1) tUC:CSU RPT 2

## 285 Dirrectod Study - Art Honons(2) tuc:csu

305 Directed Study - Att Honors(3) tuc:CSU
Confineal I has tre anile
Alluns unabeno to punas Ditrected Srady in Art oe a coatract bavis under the direction af a mereviaing inatuctoe.

## SII Coeperative Education - Art (1) CSU RPT 3

## 921 Coeperstive Education - Art (2) CSU RPT 3

## 931 Cooperative Education - Art (3) CSU RPT 3

941 Cooperative Education - Art (4) CSU RPT 3



Supervised trininge ir condurped in the form of oothe job ernining in an terplegment ama ther will eblunce the muden's edacitional grolt.

## Astronomy

## 1 Elementary Astronomy (3) UC:CSU <br> Enver 3 hum


Surweys the matrial cuaresas of the univene at an introductory leod deipeed primarily fie non-wience maion. Emphaines the phyical peinciples cacstial to fundamental andertanding ie ameeomen. Disomen the mols cif the anronomes, prass and trellar coulution, galariet and quass, comologe, the mlar morm, and ext-terestial life.

## 2 Elementary Astronomy Laboratory (1) UC:CSU RPT 1

Labiening add divames. 2 han

A tereppiation durpengy !
Supplenents the nuverid of Aumnomy 1. Includer use of atrionomial
 conertherios ancts, lanar and planesary ortins, specm of ntan, and dewifcathe of plain. Thlownic obervatioss will be made whenevr powible and will indode occaional fedd tripe to acarly atronomy facilves.

3 Introductory Astronomy (4) UCCCSU
Lecrove 3 hown: Leforeter? 2 hown.
Seme an Ammany 7 antil
Condiner lecture and Lhloratnry costent of Anrowony I and Arrninomy 2. For furher information see counse docriptiont of Ateronomy 1 and Ammentery 2.

## 185 Directed Study - Astronomy (1) tUC:CSU RPT 2

## 285 Directed Study - Astronomy (2) TUC:CSU

3 Birected Stuidy - Astronomy (3) TUC:CSU
Confornic 1 harr for weit.
Allows smulenis me purvie Dinecud Srudy in Asseonorny ea a ceotract bavil ueder she ditucion of a upervining inatuctor.

# Automotive Service Technology 

## 1 Automotive Engines (5) CSU

Lecrair 3 hemen helanitug 5 hown.
Proents a andy of automsetive engines. Encompuses cooling and Mavicating vureme. Smudens owetual engine is the laboniors, induding boring, pint-itring valve seat mplacernwit, valve grinding, and echer enginc rebulding peocedures.

2 Suspension Brakes and Power Syatems (5)
Levirr 3 hemers lelessang 5 down
Innodicas wheel, brake, and napenaion , purem and rervice, induling inarnction es power brikes, power atecring poierna, and ansi lock beaking potrmu. Provile taining and nupervied erpir un amomobile: under actual shop conditiona.

3 Engine Diapnosis and Tune-Up (5)
Entuer 5 howne Lelevetry 5 hean
 Emphaires watomotive ergise diagnotir and runc-up podlemu peraining to fuch, ignition, atarting and charging watem. Shap training is ipuition. emiavion contenl, and fued yyvems an autnenobin.

4 Starting and Charging Systems/ Automotive Electrical Circuits (5)
Lener 3 hark lahneary 5 hown
Sime a Aetemative Serniat Thb-sileg 14. Condir ner gives fir hotb counsk
Dele with be cheory and maintenasce of charging and rarting purna. Provide a wokking undervading of the dectrical ngutern uned on sutomotive muchinery: Lab woik includes wpsir work on suruen. alernaeass, and troile ehooting components of the electrical pytern. telula proviec with the latest diagsostic equipment.

5 Standard Transmissions, Clutches, Drive Lines and Differentials (3)
Leviner 2 hewn Lalunnerg 2 hourn
Framine manual shify tye uansminiun inclolisg froar drive eraturile. Discuses drive line problems including clusch, diffornatial, and ask optenis. Proviles laboeatory practice on thene anemblici.

6 Automatic Transmissions (5)
Entarr I hewn halonving 5 hours
Phowides lecture and laboratory work in the theory and servicing of soveral 'ype of sumomaric ousaminiont currartly in ais.

7 Air Conditioning (3)
Lenart 2 hurre hionuing 2 huars
Process the later informarion in air conslitioning ysurme and servicing Has slop pracier in mpair and servicing of air conditionigs ypterns.

## 20 Astomotive Electronic Computer Centrol $\mathrm{S}_{\mathrm{Y}}$ stems (3)

Lencre 3 houn.
 The throog, operation, and repair eyneme of antmotive engine coemputer sytems.

21 Computer-Controlled Electronic Fuel Injection Systems (3) Lencre 3 hewn.
 theres
 injection yyerms.

23 The Clean Air Car (3)
Lnzure 2 lown: Lelimeterg 2 houn
 mitr of ${ }^{\circ} C^{\prime}$ of drien
iClar mees for a Sorer mandaed 120 huarn nder comblinof wilit

Mg be tailen iownwrwaly with Aatimentier Smior Thlonelory 21.
A Suat of Californis manduod coune cowving operaion and mpuir of
 can obvila a leter for permivina to olke the want liceniing ram.

## 25 Fundamentals of Auto Mechanics (4)

Lencher 3 heant Gelenvang 3 heses
Truile a compeebenive introdiction to the docign, ojecration, and mpair of vaioun automotive yntems. Emphavir in placet os owneroperator vehiche muinsruance.

32 Automotive Service Technology Projects Laboratory: Chassis and Suspension Systems (1)
Lalownery 3 hour.
Arrepuinine Auvemulier Servier Techaviry 2
Provides lincrased luboranory eaperience ie the diaguonis and repair of aumenselve chamis and mpension sytems.

34 Automotive Service Technology Projects Laboratory: Electrical Circuits (2)
Lahonatery 6 hove
Arropuintien Ausumstive Servier Thituoligo 4 ,
Thuilides increased laboratng experience in the dagnosis and mpair of automotive electikal ciscuin.

35 Automotive Service Technology Projects Laberatory: Standard Transmissions, Clutches, Drive Lines and Differentiala/ Alr Conditioning (1)

## Laborsier 3 kemn

Amencuefite Ansumaier Sinviar Tichenlogy 5
Thovides increand labonatory eqperience in the diagnosis and erpair of sueland maneniusioss, clatches, deve lines and differentiald/air moditioning
ttis Directed Stady - Automotive Service Technology (1) RPT 2
285 Directed Study - Automotive Sarvice Technology (2)
385 Directed Study - Automotive Service Technology (3)
Confremer 1 har Acr anic.
 Technology en a comunac bais under the dimetion of a maperviling inumsiot.

## 911 Cooperative Education - Automotive Service Technolegy (1) हIT 3

921 Cooperative Edacation - Automotive Service Technology (2) RPT 3

391 Cooperative Education - Automotive Service Technology (3) RPT 3

941 Cooperative Education - Automotive Service Technology (4) RPT 3
 hy dy egenemer of ite Ceppenumer Ehwamies Alviar
Sopervised training is conducued in the forme of oe-thefob unining in an


## Biology

See also Anatomy, Microbiology, Oceanography, and Physiology.
3 Introduction to Biology (4) *UC.CSU
Lntary 3 hown Lalinatog 3 hown.
Clied ie malown mile hane complend Ainlyg 6.
This course presenas a coempehemive struly of the major principlo of biologs fe covers tepios nach as cell suructive and phypiologs.
 and erolinion. This counse meens the grocol education luboromy eperience requircowent. This coune if not istended for life cionco biologs, or per profenienal (molical, dental) majots.
6. General Biolopy 1 (5) UC.CSU (CAN BIOL SEO A)

Lenoer 3 hours Lakwang 6 kons
Avrepuisiten Cirmiilg 60 er J0I.
 Ainloge 6 weprenn hulf of a one-jcar coune drigned for Lite Soience majon and thone purpuring for caren in meticinos, plarmacy, and dentistr: The lectire focuiss on the fundamental prociso aminciated with living organiama, parriculaly those at the cellolar and milecular Invels of organination the labotrenty aplona ihe bielogy of plans. peotista, and imvetebrate animale.

1 Ceneral Biology II (5) UCCCSU (CAN BIOL SED A)
Lennire 3 hounc Lalivatug 6 down.
Aeropuiviter Comeiner 60 or IO\%.

Noten Thit dies ment aff campur mond aimo diuring ale umenare
 whih embryulogy and devclopmess of werebrates, krwature and ploniclage of verubrate urgan witens, exlution of wertheates. Examines populations and their relationshipe so biological commanities.

10 Nataral Histery I (4) UCCSU
Levier 5 home: Lehtuang 3 hown.
 Aiologpal prisciples inclating evolution, atapurion and ncientific merhods are examined uting the hoal esvironmens. lachala the mie of dimant is the diurriburion of plast and animal sperie and a tyormarik nerver of the commen local pans, invenctirees, kintr and mi-mal.

11 Natural History II (3) **UCCSU
Incure 2 hans Laboneting 2 hours
 Dealo with the liology of the enviponmest and de intemelationalip of climate, animule, plants, and homans. Course will include an in-depef scologial and pptenuric surny of a few seleand ecomprne of ther weld.

12 Natural History and Field Biology 1 |3| **UC.CSU Lowise 2 howrs Lehecangy 2 hown,
 Deal wihh the hinlogr of the enrimnowent and the itterrlatianhip of climutr, animult, plents, and humums. Cosine will inclode an in-lepeh


18 Natural History and Field Biology II (3) *uC:CSU
Lecrure 2 hown Lhbruiting 2 hour.

Deale with the hanlogs of the emiemenene and die internlativeship of dimane, animalo, plamo, and homams. Coune will indude an in-depeth exclogical and pretmatic nirvey of a fiw elected ecogytems of the world.

## 25 Human Bielogy (3) *UC:CSU

Lewher 3 henn
Cliestor mifma a ho Aure hingitued Blingo 6
Eamine the biology of Homa upiens induding its origin, developarent and furure on arth. Costerepuray coscoppos mach is emietich, endrubges contracepion and eminenmental pmblerm are Examined wihh Hinms sapiens as the focal poine. Thin conenge is nor imended for Cif Science major.

## 39 Sexually Transmitled Diseases (3) UC.CSU <br> 

This ovarse proces a broad owevies of the narus and cones of the savally tramined dicser, and appoucho to pervention and control. Thin courne aloo explores limues riined by beec dinewes in fielde of luw public bealth ewosomicr and rescunch.

40 The Science of Bietechnology (3) UC:CSU
Lencer 2 henn lelioneng 2 hewn.
Perrequivite Billogy 6 and Clemingy IOI.
This coasse provida s comprelentine iutroduction te dhe nience of hisechnology by powiding bath the theory and hand-on experienor with laboratiry prutocole thas paralle the inolatinu, purificarion, and dooing of a prone:

185 Directed Study - Biology (1) tUC:CSU RPT 2
285 Directed Stady - Biology (2) tUCCSU

## 365 Directed Study - Bielegy (3) tuc.CSU <br> Confernar I hevergor anik.

Allows mudents tar pusue Diecored Seady in Niologe un a concract buels under the divection of a niperviting isutnucoos.

911 Cooperntive Efacation - Biology (1) CSU HPT 3
921 Cooperative Education - Biology (2) CSU RPT 3
531 Cooperative Edwcation - Biology (3) CSU RPT 3
941 Cooperative Education - Biology (4) CSU RPT 3
 by ive imarent of it Conmutine Eiduanive Ahiar
Limitr to trenger areilíh See Cooprative Education Conitit Guide
Supervined uniaing is conducted in the form of vo-lhe-pot urainigg in an employment ares ther will mhance the mulent' enhartimal grats:

VEC Cordir Limits Marimuis see cosne.


## Business Administration

Business Administration courses are listed separately under the following headings:

Accounting
Business
Escrow
International Business

## Management

Marketing
Roal Estate
Supervision

## Business

## 1 Introduction to Business (3) UC:CSU <br> Lencuer 3 hears

Dofipned to lituedoce of review the havk anas of any buaines of orginization. Topio canered inclake Aconamíg, Imermational Busines, Finunce, Marketing, Mungement, Burines Las Beisen Orgumation, and Carmen.

5 Business Law I (3) *UC:CSU (CAN BUS 8)
Lenner 3 been.
Includer a peneral oreview of haw and mociet and specifically the law of contricts. pensual properry and haiments, consumer protection, real propery and the environmens, atase and wilh. Gives anestion to logial nesoning and the application of rules of law to everplay businas setivitie:

6 Business Law il (3) *UCCSU
Ienorr 3 hewn.
Indudes the undy of agracy and employ-ment, whes, insurances parmenhipe, corpocacions, commercal pupes, bumkuptos and the inerreclatioship of gerernment and bexiness. Disonser case stening the application of the pitinciples of low in de alowe-named field is eeler tus aphy the niles to everplay business astivities.

185 Directed Study - Business (1) CSU RPT 2
285 Directed Study - Basiness (2) CSU
35 Directed Study - Business (3)
(3) CSU

Coglimen I how fer weit
Allows undens mo punue Directed Sisify in Buxines en a cournat luair uinder the dection of a mpervising limmuciot.

911 Cooperative Education - Businass (1) CSU RPT 3
921 Cooperative Edacation - Business (z) CSU RPT 3
931 Cooporative Edacation - Business (3) CSU RPT 3
941 Cooperative Education - Businass (4) CSU RPT 3
 by the alpuanure of ite Ceppenutire Eideation Abhier.

Supervised mining is conducted in the form of on-chejob unining in in emplogment anea that will enlance the atulenti, educaeinal goale.
*UC Cendir Limin Meriexw ane newose.

## Business Computer Applications

## Business Education

## Business English

See course listings under Office Administration

## Cabinetmaking

See course listings under Indastrial Technology-Woodworking

## Chemistry


#### Abstract

Snuifuts whane native lavpwage ir ather thas Endiah mase qually for er be emralled in ESt 56 beforr enralivig io all Cheminty labenatory  Englith are a determinatst not enty of a atuilent' ability to profit firm initruection effriva, but abe alie seff and succrouful completien of clemibtry labonatery cowrims:


55 Human and Environenental Chemistry (3) CSU
Lencevt 3 huars.
Firmenty Clymining 24
Arovquilite Nise
Doiped fir nowcience majocs. Framines hasic principles, aprications Whath and daty Eff, and rocietal, conoomic and enviromeneal implications of chemiatry. Ceven wich topioa as nutritioe. food aldiviven, melicises, druge, anope hole, grenhowar effect, energy alternatives polinion, houschold chermicale.

51 Fundamentals of Chemistry 1 (5) *UCCCSU (CAN CHEM 6) Leverr 4 hours: Lelirang 5 hours
Eirnonfy Clomiery 3
 Recammondariant Elyitilioy for Explib $2 x$
Reviler a bavic ietmoduction tes chemiatry for die muiterar with no previon hackgound in chemisty. Emphasires the principles of inarganic chemintry and primider an innoduction to elenestary organke cheminng: It in insended for nuning, hame economica, phyical therrem elemenary nhoribies, animal health wechnologi ermital 2 - yar apricultues, and Henal arra studens who seed a ene semoser plopioal sclence liboratury ovune. Foe many mudenss it is a meminal coune la chemingy, bar it serves alis as the most appeopelise porreculitr to Chemiary 70. It in not insended for studenes planaleg to neler Cheminary 101.
(0) Introduction to Genoral Chemistry (5) *UC:CSU

Incurr 3 hown lalungurg 4 han
Fivemb Crming 10
 115 wint a guble of ${ }^{\circ} \mathrm{C}$ " m hemere

Poecots be elemenary principle of eneral che mahtry with special emplaia in problem nobing asd the developmens of a hasic chenical woabulares, le is an intenductory couine for simene nujos who here net thien high sthool chemistry or who need a refiepher coume. This conne erver to prepase madenter for Chemirery 101 .

70 Introductory Organic and Biochemistry (4) **UC.CSU
Lenter 3 haor khonving 3 heans
Arment Cowning?

Intmduces the enodent to the osential primciples of ogganic chersisuy, the demitry of hiologial molecules, and the foviriinning of bldoglal pyerme, It a eppecally wited to der needs of sublester majaring in fining, bowe economio. phyikal theraps and other livallh-reloted firlas.

## 101 Genern! Chemistry I (5) UC.CSU (CAN CHEM 2)

Eirmery Chemang t
Leviver 3 dear: Latunsiary and dionauliw 6 hewn.
Prrmgwiniter

 tyeinalint.
Deshe with the priaciple and lise af chemintry as relared to the structure of mutier. Topios covered indode a comparion of the staver of maten anomic structure and the periofic whle, soichinmerys thernocheminry and intenductory thermotymamion chemial bondinge molutions solubiling acids and haser introducrovy chemioal equilibraum! midutionundacions and phere chanpos.

## CHEMISTRY 101 READINESS TEST

The Chemiarry 101 realises nes is tecemary for suudens who with mentoll in Chemistry 101 as dheir fist couise in Chemiurry ar Fience Cellgge. Renula from the wes will be usod to atrise and anin: ntodeats in enrulling in a chat where they ier moor llifly motrocel. The prerequisits for Cheminry 101 ane not waived as the hain of any amcument tus seomec, Snatents without the approperiase prexequinites seeking authorization so ennell in Creminty 101 muar mert with the Department Chaits. Soudens who winh to earell in Chemiarry 40, 51 , or 60 do nee noed to tabe thin teet. For an appointenent and infomarion sheer contact the Anesument Contes: Phone: 719.6498

102 General Chemistry il (5) UCCSSU (CAN CHEM 4) Lnvart 3 hown Lhlonung and dímunien 6 hown. Fivmety Cheming 2
 A contimurion of Cheminny 101. Topica cavered include a decailed suidy of chenial equitibrium as applied no andytical demintry induating solubility compler ion, and redow equilituis, pH , buffien, weak achits, weak bases, mosopertic and polfprotic yveemas chermodywamios dectrochemistry the sold starr, the nlationship berwote mamice peopertier kiserios crortimation chemitery incloting introduction so M . O. and ligand feld theorgs vilible pectrococyp and the chemiatry of elected matal and nonmethle

## 211 Organic Chemistry for Science Majors 1 (5) **UC:CSU

 Lerner 3 hasw Lelinuting 6 hanhFirmenf Climiney 14
 Introluses the antent wo the seructurs, momenclarure and peopertion of erpelk compounde as well an the mechanisms of orpenk rexpions and equbese. Labotanny deals with the vechniquer of perparaios, inolution. and analyus of organic compoonds exploying modern instrumenal nverhode.

## 212 Organic Chemistry for Science Majors II (5) **UC:CSU

Lavire 3 dewny Leluning 6 home
 This cowne vill complete the suaty begus in Chentrry 211 of the arganic finctional groupe of alddhyder, kersoes, carbentic acids and mines. It vill also cover mose apecialised sopios including the following amino acids and pecide, mast rpecromery, difunctional compoenth polycydic bensoid hydrocathonis heernogelic compounds, he organic cheningy of nilicon, NMR exhniquer and atraegles in modern organic mencheris. A mechasiutic approsho to macions and a focis no multinep gruhais will be enphainel throughoor be coure

221 Biochomistry for Science Majors (5) **UC:CSU
Levier 3 houn Ladving 6 houm
Firmenty Clvming 15
 Nornally fflond is ate syring amearr moly
This comme is imendet an a putpuration for carees in the ployical and
 africiltural nciencw, matritios and food chemivery, and relaed fielth its objective in wofid The fint in so complete the atualy begun in Chemintry 211 of the organic funcioe groops of alldtydes, kerones. molates, carbonplic widi asd sheir derivivino, and amines and dheir derinulices. The secued is to provide a thosough introduction to the principlos, concepses and serninoligg of 'hinchrmisry; with an emphasis on amiso wids, promiti, zarymes and insermediary metubolime. Laboenngy deals with introduanory biochemical techniiguer incluting
 vatious type of chromatiopaphy:

1 185 Directad Study - Chemistry (1) TUC:CSU RPT 2

## 285 Dirsected Study - Chemistry (2) tucicsu

385 Directed Study - Chemistry (3) tuC:CSU
Casfirnacr $I$ hever per weit.
Allows modesu mit purnue Directed Sruly in Chemisury on a contact bavie under the direaion of a muperviing inuensene.

## 911 Cooperative Elucation - Chemistry (1) CSU RPT 3

921 Cooperative Education - Chemistry (z) CSU RPT 3
931 Cooperative Education - Chemistry (3) CSU RPT 3
971 Cooperative Education - Chemistry (4) CSU RPT 3



Supervied triting is conductel in the form of oethe-fob ulining in an employment ares that will enhance the mulent's elurational palk.

UCC Condí Limin Mavimum aser menne
"UC Colitr Liwith Meximam ave onwnes.
"N" indir ff titen affer Chmeliry ROt.

## Child Development

## 1 Child Growth and Development (3) UCCCS

Lembirr 3 hown
This counse stalies humas development from conotption thoogh pregnancy, infancy, childhood and adolencence. Paricular emphatis is placod on the process and theiria shrugh which a humas being reache phyical, wocial, pyocholopioal and mental manuing.

2 Early Childhood Principles and Programs (3) CSU Eschur I hewn.
A survey of Early Chilhoal Programer induding philomphier and
 will be discumed in depith. The role of the tracher will be cmphusised is erlaine so anieules, grake, valoe anl the tunal development of the child

3 Croative Activitios for Children I (3) CSU
Incrum 3 hean.
In this dase, the mudent will develop and implensens a crotive currioulum for young chuidren in the seas of drimatic plag. mukkfmmement, Whoks and art. Emphmit will le on emimemens dhar enhance corativity and divening:

11 Home, School and Community Holations (3) CSU
Inturr 3 hown
A cmipechemive sendy of the primury wochlitios spener in a young chillt life. It will rake an in-depeh bok at the family and tro inserelationtbie wihh the chold, whool peen and comanuity: All agracies will be madied within I multh culhanal cimirnt.

## Cinema

## 3 History of Motion Pictures and Television (3) UC:CSU

Lenurn 2 hewre lelivesury 2 hown
 topresenative filmt and irlerision pruglama at to formath, arsthetio. iocienal impaci, ant evolution an enitetimment inectis

## 18 Main Currents in Motion Pietures (3) UCCCSU

Lnawre 3 hown
Proens a marvy of forme fitm teendo vince Warld Wir II, utiliting a themark approach which analyno motion picnum an thy effect changing nocial values. Reperenuaive films ane shown.

# Computer Office Applications 

See course listings under Diffice Administratioa

# Computer Science And Information Technology 

501 Introduction to Computers and Their Uses (3) UC:CSU Lnture 3 hearn.
An introdaction to the ues, concepts, techniques, and uerminology of compuring Plicas the pomiblieties and problems of compuser ane in hiutsical, economic, asd excial conters. Shown how compuren can mint is a wile range of perneal commercial, and oqpaninainnal acivition. foivits fimiltartatios with typical computer applearimes, which indes ood procence spreadbees, and danhave. Inchided is the hiumsial developenent of the innernet and ia methols and procedures.

## 506 Introduction to Programming (3) *UC:CSU (CAN CSC1 12)

Lecrane 2 heurc: hlowilieg 2 hews.

 509 moy br athe cowurmbly
ternduation wo conyporen and comporer poograming uning PASCAL
Progran unwarn, drign, trating, and debuging are coplond in a hantr on enviruenmes. Topicr indutel are wlection, mpetinion, daca tppes. atrajt functions, procelures and file $1 / O$

## 507 Programming Logic (3) UC:CSU

Tercare 3 hown.
 with a poder of "C" er haurt

 and document compuser programe uing top-down, atrucrued

 puaning methols, and filc interactive inputfoutput. Thin clas is invended wa machise and languger independent first coune in coempater cience logic. It is mequired of ail computer sience majion and deiralke for al andens wishine tes andy peogramming A high level lanquagr vich as PASCAL whould be ukren comcunently:
s5e Wisual BASIC (3) *UC:CSU (CAN CSCI 5 )
Lenaer 2 hwanc lahonutary 2 hon
Arropmisiter Cempuser Sirmer (507 ar 575) and 530 nitib guilo of ${ }^{\circ} C^{\circ}$ ar deturr
Ineroduces the peogramming language Vimual MSIC as the bost languper oo lara kegianing to advanced arnctued programming concepe and
 peogramming principles, top-down delige and moxluler programming mechode, program deturging, testing, implementation and documentarion peocolura. Topias include data rypes, arny and aring urnaturce, decision and reperikion control siructares, nequential nal anden file procexing operatione. Appoopriaer applicariona will be upplied to mudents at crampla and exertive.

## 515 Beginaing C0BOL. Programming (3) *UC:CSU <br> Leviant 2 heens Lilenung 2 hawn.


 Preens COBOL. (Common Buiness Oricntal Languge), a languge shich facilates the progrmming of bainess appliations on compuren. Scudeas will learn so progran in mrucwied OOBOL. Includer hande-an programming in an interactive envirunment.

## $5 t 5$ Baginnling Malinframe Assembly Lanquage and Architecture(3) ${ }^{\circ}$ UC:CSU <br> Entier 2 harc Lelowitey 2 hwon.

Avenpuinitun (Compuner Sifnser 507 end ene prepamming dien from
 Computre achilecture. Isformation repmenturias and moragre organisation is compuner notern. Computer handware componeno. Typical compater andinecrumes. Instrucise formuss, addrening modes, mbeogpama, purameter paaing, wachs, and de instroctinn mecuthen cycle. Ausmbly languye inaurocion formas. Compiler trialation to asembly langugen Oprimiving compiles. Disusemblen. Lastea and
 memory. Boolvan algrhes and logk gres. Comhinarional logic asd mpueneisl ferkeer.

## 500 Mierocomputer Application Seftware (3) CSU <br> Lectave 2 hours Lalwating 2 hown.

A sumey of botinees application suffare pactugos inclading operaing sparns, wood procening, spreadhocts, and darabase maniyrneses, Examples ieduck common beviness applkations, Curnmer efiwarr inchudes Windoes, Whel, Feed, and Acres.

## 52 Introduction to Databases (3) CSU <br> Lencuer 3 hean.


The arpanimarion of lage filles and daratues in disoued Fik urucrures
 whasipues ate nevicsed. Diecer file procening uing hathing methoos aic dincused. I Islesel file proconing with static and dyamic indece are exploned and malriltry inglemcatations ane reviewno. The sormalization pences in defined.

## 53 Micrecemputer Datahases (3) CSU

Lernirr 2 howrs Lelenctiry 2 haw

This course focuser on elational deshluse manspement yatem widly twed ty busincus mo managr and ue infoemation for decision maling. Uhes Micrusoft Ofice to present product inmgation.

54 Operating Systems (3)*UC:CSU
Intuer 2 hours Lelonutien 2 heurs.
Avropmintion Campsier Stiemir 572 vidh a grode of "C" or lectime
The primary inuee marnundigs UNIX pyseme edminiaration ase the focur of thia counc. An introduction to operating tysum coocepec. structure, functions, performasce and management is pewentrd tming the UNDX operaring yotem. Review of compelet hanlwars, mof(wate and opecating oystem peinciples are aloo preserred. The srocture and cemmand lunguge interfaces are identifiel and discused. Procesu conatmol and mungerment, wheduling nechots, and imtropmoces comunuicasion rechniques are vrudied. Mersory masagement requirements and atratrgies are revewed and allocation/ichoduling al pprithes ane eamined. Syacm melabiliny, recurins, manaperivent and performuace analyile aer ecamined. Aupecs of UNIX networking are alno diacuned.

## 535 Joh Control Languape and File Systems (3) CSU

Leviure 2 hower: Leburusary 2 hourn
Prmerwifith Compater Scinon 513 e 515 , cilder of waldo mey he aidow cownerwnd
The concrets and unge of dara monge opatemes, data mpiesutarions, and enthods of ongatring, wocesing, sorting and veanclung data ane ineroduced and disused. Ple syorms an hirrotums, of armation. operations and percening ase miewed. Applicatices of thoe yneme ane highlighted and dincussed. The operating cyweres scrivitios that suppont file opitem ate reviesed. Langugge ranalutar noffowat is identified and oploned. The use of job conerol hinguign for operating yucma communioation and pugram unilition for file operations ane firmued and ovilimed dhrough lab mighments.

535 Introdaction to Dats Structures (3) *UC:CSU Lexuirt 2 hown hhenary 2 hewn
Cmpuier Sirier 539
Introdaction no deta structurs and their applicuions. The mete of the aluernct data $y$ pe in programming deien. The definition. implenensation, and application of dara arnactures stads, quors, linkel lins, tues and uraphe. fecumion. A companaive mady of nenting and wearthing alpotithme. Braluarion of algonthme uing time emmplasity apresiona.

## 533 Programming in C (3) *UC:CSU (CAN CSCI 15)

Leviner 2 howr helowsing 2 heurs
Ceptier Soifmer 515 or 515 at 506 me $50 t$ AND Computer Siomer 507

This is a couse in the programming languape C. It coven dan tpes, operaens sod epresiose, mntrol fisw, fimctious and program unaciume. pelaten and artay, amocrures, $1 / O$, and an introduction to procedural C.+. Fxamples illutrase poogramming iechniques, algaithms, and the we of lihary moutina.

500 Programming in $\mathrm{C}_{++}$(3) UCCSU
Levirr 2 lowns Lelinuting 2 hown.

Object-ariented pengramming memhod-elogy nach an encypuluion.

 derived clanco, virmal functions and eperator emerhatiog are analied and implenented with lib pmions.

541 Advanced Datahase Programaing For Windows (3) CSU Levarr 2 hanc Lebonitig 2 hown.

Alvanced programaning an mismonompusen for danhase applicatians in a
Windown cievimament, todule iepetouput fur sopoes and acrecu. menue and dialos bomes, OIS and builing completer applicmions.

555 Advanced C0BOL. Programming (3) *UC:CSU
Lentarr 2 houms Lhbonding 2 hans.

Posens a wecond coune in COAOL. pegrimining concopta and file handlling vechaijues, laclader whlo, mring handling SOKK and TEAMVVSAM files. laclala hash-en pragrounaing in an inecrative envicoment.

545 Advanced Mainfrane Assembly Language And Architecture (3) *UC:CSU
Lentare 2 hwers Lelvnilion 2 hown.
 betare
Istrodaction se the coougut of mulitivel machincs. Sowral companct anchitectures are compased and evolased. The diginal lopic level is discumsel, sytem bar ad memory ergmianione ane novirwol. Microanchitecture chips and huser are evalumed. Microcode in defined and micoopmograns are andyned. Coeventional instructiost for pencessar Gamilies are identified. lumenotion formas and abferving modes are cramined in depch. CISC, RISC and parallel procealigg anchivectures ase discused. The anserdly languge process, macro faciling, linhinglowling. and simmined eaccution is performed as a lab esercise

551 Introduction to the Internet and the World Wide Web (1) CSU A hand-on sarvey of the latrute. E-mail, infonmarion mevieval, interen goups, the World Wide Wrh, beowing, the Weh, introductices to Whth publuling and die Hyper Teen Markap Langage (HTMI).

## 570 Computer Fundamentals (3)

Leriarr 2 heve Laloruang 3 hown
 greate of ${ }^{\circ} C^{\circ}$ ar berime
Provide the foundation in the design of the dectronic elenenas whish are the hati of digital compures. DC and AC cincuios ieciatocs, capacieon, diofer, trumistats, batk angifiem. Difical logiq pres, Bookan alechin, combinutional circuios, Karnauph mups, nequential hojic, Ep-Gip. inginem, countem, memorios. The couse mitenes lunds-an eaperinents and the we of nent innmumentation.

## 572 Computer Systems and Networks I (3) CSU

Lenner 2 haun iehnving 2 hvar
tenodices midens to compoter lundvus, NC eperaring ,yourm, and
 the semetes. Hatware wopict range from floppy dihk and dives, hand
 cank and bouss (ISA, EISA, Migo-chantieh, Local Bat, RCI), input and conprut devices, and serwank handwart and sofiware. Labotatory operiencer inchude in depeh operating yutren eacechos, ystem configuration and documentation, partitioning and creating logical drine
 (mach an Nortoo Dtrilitia).

575 Programming Concepts for Computer Technicians (4) CSU Leviarr 3 houns lebinciang 2 hourn
The fundamenealn of programming for penenned involvel in the delipe and mainienasor of computer humbare. $\lambda$ High Onder Languages, mach an MSIC in ueed no develop a wariery of applicarioen inclading tectrical and staposatic programs. All appets of the wfiwase dewlopment cyle (derigs, code, rex, and debugeing), ar well as good programiming procrices noch as mpodown and modulur design are stresed.

576 Lecal Area Netwerk Management (3) CSU
Lefiur 2 hever Lalowiery 2 heses.
Arevquitritan Compsuter Sivecr 572.
Thin course provide the knowlelge and shills requied for nervonk almiatitration and yweco management. Topios includer planning accesing wad managing setwelk fle pytemt yytern data and file secority werver cosoppth, mumaponent and mipport, werer mainernaict and performaice atangroment.

## 578 Microcomputers Architecture (3) CSU

Letrutr 2 hums Inheratig 2 houn
 Thil coure covers in depeh the anchitectuse and proyramming of 8 - and 16-bit micruprocesons uning anemthy and machise langugge. Controt. dass, and addres buses ase examined. Hasitrot experments inclale intrfaxings micsoprowewass to boch digital and analag devicm.

579 Wide Area Network Management (3) CSU
Lenner 2 hears Lalenung 2 howns.
Arroquifiton Compuatr Sirimer 572.
This course provile the knoeledge and skills repuired in the plohal connectiving of necworka. Topias includer managing die network direcurry tervices netwonk file and data necirity; uner auromations nerwock andiring nerweok malorenance and performance epeimiention.

581 Computer Systems and Networks Repair (4) CSU Leviner 2 huwn Ldonaning 4 hown:
 The objoctine of this coune is we reach the maineenance and repair of microcosuputer symens and serworla to the leod repulired of a oneycar ceniforar graduate. Topica will include seffoare and handware inasallation, maintenance and repair of fioppy dials, prinoms, memory epanders, grephik terminals and serwork fuacional thocls and their variour alapees. Maneficruren' manuals and diagostric nofiwar are nod for numerous scrvice call of increating complexiny involving electronion and mechanical frilures and adjumenenu.

586 Computer Network Service and Support(4) CSU
Lemerr 2 hvert lefinang f hein.
 ar ingoer
A hambsoe couns intredel to prepare strudess we service and uppont cumpures, peripherals and network aynems. All apeces of equipment thoen hastrase and sof(ware) ate introduced. Tanker indule imarallations. upprades and nouble chooring of soeayp devices, application and ywuen wfrwate, netwark handware, microsomputer devicen, printen and commsanication dericet and mefsware.

## 587 Introduction to Locat Area Networks (3) CSU

Innur 2 houns Lalonang 2 hans.
Prenquinitien Cimpuime Srimer 572.
Nerwork serninolags, topologe protocolk, standands and coocepts an tixusent. Loal med *ide ara nersorbs are analyned. Tab activibe are concermed with an cramination of cainting LAN/WAN handware and


S83 Computer Projects (2) CSU
Levierv I buar, liknang 3 bown.
 Requires the vuident, afier ceenulatine vilh the insurucso to desige. brat eraluar add document a project itrolving digital dectronia. Proferional approaches toward finding a real pooject as cither an emploger ur conmactur are dia-cused along with cost maimuting shatling and documenting.

## 589 Introduction to Data Communications (3) CSU

Envier 2 heans Ledenctary 2 heans.

Soudios the diffornt technippea ned to adileve the unatier of data
 and cacrection and the OSS lisernational atandand proencole.

185 Directed Study - Cemputer Science Information Technology (1) UC:CSU RPT 2

285 Directed Stady - Computer Science Information Teclnnology (2) UC:CSU

3 Directed Study - Computer Science Information Technology (3) UC:CSU
Confinwar I howr pry avic
Allown mulesa to punge Diercied Scoly in Computer Scirnce on a conmast lanit under the difinction of a rupervining inurnacies.

911 Cooperative Education - Computer Seience Information Technology (1) CSU RPT 3

921 Cooperative Education - Computer Science Information Technology (2) CSU RPT 3

331 Cooperative Edacation - Computer Science Imformation Tachnology (3) CSU RPT 3

941 Cooperative Education - Computer Science Information Technology (4) CSU RPT 3


 Suporvised urining is condocted in the furm of on-the-jot mining in an exploymeat afes that will enhance the madent's edocraional guls.
*UC Crodit Lisesit Meximum nit ananes.

## Cooperative Work Experience Education

The following couner provile Cooperatine Wokk Expeiencr Edocatin otedic. Soe Cooperative Wrok Experience Education in the Eduasation Prograns rection of this casalog.

## Cooperative Work Experience Education -

 Occupational Phair inf 9 It. -9tf wsiler ahe apprypriase saljent hadive.

Apriculture
Achiteraure
Am
Automunive Service
Hiology
husines
Chemlatry
Computer Sclience
Feopomica
Edacation
Electronica
Einglah
Healdr
Induraial Technolog:
Genetal

Journaline
Maik
Nuinise
Office Adnvinintarion
Photrgexphy
Physkal Fduracion
Physior
Thairial Science
lyycholoy
Recreatian
Socinlogy
Speech Communication
Technology
Thenter


 Cmalit Gailh
Sopervined maining is conducted in the form of oo the pob trining in an employnoent area ihat will enhanice the anulestis educatise goals.

Cooperative Work Experience Education General

195 Work Experience - General I (1) RPT 1
295 Werk Experience - General I (2) RPT 1
395 Work Experience - General I (3) RPT 1
Sopervined usaining is provided in the arra of general evoployment procrion with emplomit on mimite, tethioc, and limegriny: Op-the job trining ared not be in the colloge mapor but murt be edocational.

## Desktop Publishing

Ses course listings under Office Administration

## Developmental Communications

## 22 Communications Laboratory (5) (NDA) RPT 2

Intares 5 have.
Arencuibite Serigivent femfirmamir an ato ECt. That
Powilos midents with the opportuniry to impreve wailemic dalls, Rexnussonded for stukents with deficiencio in tpecific arcas meth as roaling, spelling, vocabulars, gruminas, language skills and study akill. Provider individualised atoring and proprmmed mela instruction at presorited.

# Drafting - Mechanical 

See Industrial Technology - Dralting

## Earth Science

Earth Science courses are listed under the headings of:
Anthropology
Environmental Sciance
Geograply
Ceology
Linguistics
Meteorology
Oceanograply

## Economics

## 1 Principles of Economics I (3) UC:CSU (CAN ECON 4)

Lentaty 3 heus.
Ecunomics \&. Micruetonamion, emphanden price thenry, enesumes blarion, peccluctiven coses, theary of the fim, marier atroction, and farniturint if in wrme, Oher toptar may inchule inter mations trade, outrmalifics, econnmic policy and hiatory of economic thoughe.

2 Principles of Economics II (3) UC:CSU (CAN ECON 2) Lender 3 Arun.
 amalyis. induding matinal inopere detenainatione, inflation, uncmploy nest, invesument, fixal puligy, muncy and tanking, and monerary potky, Other mopics may inclade nounomk powh and tevtupnicat, in't urfan protemis.

10 Economic History of the United States (3) UC:CSU Levare I haur
Semer ar Hinery is Culir ner gines fir hath ewnes.
Sowses devolopurar and thange in topogenk instinaime. Comsiders the natuse of American capitalim and the effeca of industrialization ou American minomic life.

105 Directed Stady - Economics (1) TUC:CSU RPT 2
285 Dirncted Studf - Eevnomies (2) tuc.csu
385 Dirtected Study - Ecenemics (3) TUC:CSU Cenfivener 1 haur per anit.
Allows nualewa so punue Dincaed Stady in Eeonomio na a commact havir uasler the dirsctios of a supervising inatroctes.

911 Cooperative Education - Economics (1) CSU RFT 3
921 Ceoperative Elucation - Ecenomies (2) CSU RPT 3
931 Cooperative Education - Ecenomics (3) CSU RPT 3
941 Cooparative Education - Economics (4) CSU RPT 3
 by the sirmanere of ake Cepperame Eihwatins Adfium

Sepervised uxining is cushacted in the form of en-the-jolt craining in an employment arca ther will enhunce the sudent's efucationat puals.

## Education

[^6]
## 6 Methods and Materials of Tutoring (1)

Lerien 2 ham.
A couse offering insmacine is nauring selonipues, proup dyurmas. inuerpenanal abih, recond lerping, organtrational ahis, and study skills. The counse explores concrpts of cultural diffirences and vilus, boty languyg, paruik, and powes languge.

## 911 Cooporative Education - Education (1) CSU RPT 3

## S21 Cooperative Education - Edveation (2) CSU RPT 3

## 931 Ceoperative Education-Education (3) CSU RPT 3

941 Cooperative Education-Education (4) CSU RPT 3



 englogment anca that will enhunce the suiden's educational goals.

# Electrical <br> Construction And Maintenance 

See Induatrial Technology

## Electronics

## 2 Introduction to Electronics (3) CSU <br> Inviarr $\$$ hown:

Preents an owerview of electronico and provilor a precral comaumer undentuading for the non techinical nodent. Engphatis is on the mlaticehip of thim firll so other soieneific fieds, indarery, bevises, the home, and oder uark. The conuse will inclode lecrures, domonarrations,


4A Fundamentals of Electrenics IA (3) CSU
Encwer 3 hours

Doigned for beginning dectronics undenes withoer any perviout cuperienge with eleoriciey or ciecroelos: Coves fundumenals of anomic thenes, havia of volt, OHM, ampen, energy and power, OHM, Law rebietive arrwelos, applicathe of Kinthef's lam. Thevenin's and Nomon's Theors conducties, minton, beteries, magnetim, electumugneric indiaction, thanient functions, and mounuing latrumenes. Compuocr aided airuir andywar uing PSFICE.

48 Fundamentals of Electronics IB (1) CSU
Labrution 3 han
Cernquititer Elinimesins 41
Coven experimentation in basic concrpas of OHMy Law, viring practice frem whemari wo piretist, me of haboratory instrument, construcion of Vole-OHM-M. Ilimmetes. Conquier alled cimuir analpir uning FSIICR

## 6A Fandementals of Electronies IIA (3) CSU <br> Intar 3 hean <br>  condilewt in Ehentia 6 id


 and hondpas. Emphasiag the edetion of dicemaing courmat ciroit


## 68 Fundamentals of Electronics IBB (1) CSU <br> Laboueten 3 hewn <br> 

Coren practiol aptliation of heoriae proemed in Blatrosia $6 A$
 sing PSPICE.

## * Electron Devices A (3) CSU

Incour 3 hown

## Averoquititer Eicanmiog th and in

 iraminton, fielt dfect traminoun, MOSFETS, and special porpone electuon devices, wach as 5 CRs , tumel diodes, lighte emitring diodes.
 cathode ay eubes. Analyia of characterinic curves for semicondoctar devices. Biaving and loal lines. Ietreduction to commen emitrer, commost collector and commos tave tranimes coafigurations. Sample applications of semiconduatit devion. Compurer ailed cinguit samploin uing PSPICE

15 Electron Devices B (1) CSU
Laloneng 3 hicen.

Provida lhboratary cuperiencr in the use of elecron devices and
 and the tranimor arve tucer. Lab work indude conatnocing, trating. atalyzing atd mooblechooting a vaiery of somicandector dirosin. Citult conarnuction and aperimentatina is mpplenestel by computst ailed ciecuit andyui.

## 10 Mathamatics of Electronics 1 (3) CSU

Lecturr 3 houns
Preseas principlos of haik alphtas, equarions, factiering, fracional equariosi, solutioms to purime of equationt, havic lopatichme, power of
 applied ma elecusoica. Requirss an diectrenk akoletis.

## 12 Mathematics of Electronics II (3) CSU

teniner 3 hasn
Preents princlifle of trigonometry, wotors, ligavidum, thenicy of neady
 problems. Requirs an chectronic calculume

## 14 Mathematics of Electronics III (3) CSU

ternerr 3 heen:

## Armpwifint Elhmmin 12.

Freseno an applied coome in amalyic gromery and cakula whith muphais on docanotic problema. Covess functivns, average natr nitations. fundenental derivatives and integral. Inclades praciial applications of
 functions.

25 Unear Circuits (3) CSU
Lenwer 3 heme

ELntrinia 27 ar 6I
Comess power supties, AC and DC amptifias, pubh-pult amplifien.
 disuoctine in amptifien. Coven A, B, and C amplifien and ocoilluncrs, multiuage and lange sipnal amplifiers, feethack iaput and output impedencr and froperecy rapones. Compoter sifed circier anshoit.

## 2 Linear Circuits Laboratory (z) csu

Lahuncary 6 hour.
Compuiviten Elorasmior 26
Noten Efowindor be Bhomsin at
Provider latoratory opevience with power supplies, AC and DC anplifiess, pah puill amplificn, complemeneary aymmetry Clas A. B.
 Cocarnucron techanger, moublohoocing methods, and introdocsory andipis of a funic $A M$ and $F M$ radia
28. Electronic and Electro-Mechanical Dratting I (2) CSU Leviwr I havi Lelanuing 2 hown
Cover sechniywer of lenering, siges, and yumbols as applied to decursica. Includes siring cugrans, prieted circuits, and paclaging uechniques. Composent Lyyut, highowy and airline-gpe daypumes and penpeaive are alon inchudel. Prinsed cincuir boud and achetratic lapout wing cempater ailed doign nofoware.

## 44 Communications Electronics (3)

Enchar 3 haver
Anvequiniten Eiomanis 6 and 8 .
 cerumic and LC filaring Oncillamen, modelaton, misen, discriminatoon,
 and nquelch circsits, Involuction so viden prtema. Implemesarion of phase locked lops in devecron, frequesoy ympherisen and FSK rectiven. Dual pre MOSFETS, vasocion, and intrgrated devices in RF circultry Intodoction $=$ digial communicadosa modems, FSK, and frequency domain andyuit. Dicumion of the requiremesurs for obaining a Radis Telephone Operazor Likente.

## 45 Communications Electronics Laboratory (1)

 Leliviney 3 hworCompuifitin Fifinewes $f 1$.
Thovider ilbonany coperience for Elecumica 44.
45 Itotograted Circuits (4) CSU

## Envir 3 heart Kelowang 3 han <br> Arenquiriten Binmesis 20 27 , and 64

Coves theory and inteffece of lincas anal lincar/digital interfice integned circula. DC (asic cimuls, inpuifourput roistance, diff, input offee/bian curma, models, CMRR, open and cooed loop pies and fropuency mopesic ar comurd. Application no difforatial, operational and video
 ussuminion cirouits, and phas hock Iopp ciecuin. Compeater aided dincuir anjuik.

50 Mierowave Fundomentals (3)
Lentur 3 hann
Avrifutrito Etrmenitr 6 and
licholer diccumiont of michuwaer aplicarions and freguency hande. Tiam--miainn line prisciples and chuticetriatica. Une of Smith chart in volving uasamision line poublemi. Marching load no mansminken lise. VSWIK and refinction cafficiencs, mule and tuners. Microwave geseraoon and amplifien includiop gita, Wyerna, travelling wove mbees, and mappermes. Mictosase compobents wove grides and apezating modec. donted lines, directional couplen, ald powes senion.

## 61 Microwave Fundamentals Laboratory (1) <br> Laburuery 3 hans.


Pruide practical cuperience uning modern meanaring inurrunesu Indating V5WR and power metern, 1pectumi analysen, mept frequency ysurme and plonirn. Experimenes demonurate electro-magnetic wave theary and meaurenient techriqpors to derernine VSWR, teflection conffivent, load impedance, poner, fiequiracy and atmeraation. Une of tinue domuin neflectonneny in andyning trammiaion line faulo.

63 Circuit Analyais Laboratory (1)
Laluruting 3 hean:
Compuifiter Ehimesia 26
Thenider luboratary ceperiencr wih power kiphlet, AC and DC amplifien, puoh pull amplifen, complemcorary symurury, Chan A. B. and C ampifirn and racaled amplifern arr comencied and tated
 cincilt $=$ methit

## 72A Digital Cireuits IA (3) CSU

Lencer 3 houm

Presens principles of digial elecrunio and compuars inchnologe: Ravide cowerngr of diginal number ywiens, boolean aloles and simplificaion mechnipres incholing Karnaugh mupe. Logic gree ual the
 decoden, code cieverenh, emmpactons, meliplozes, deives and displays. decade counting enita, prete arrops and progpammalle logic devices att prosened. The operation of mulivibratos, add their applications to cownern, teriuen, timen, and dock erneratos are discined. RAM, BOM. EPROM. EEPROM, and other memotio and memory
 orparization. Iatrodecrion so eynchroboun sequrncial derign and compuer tillel circuit daiph.

## 728 Digital Circuits Laboratory IB (1) CSU

Lalomateg 3 has:
Compeiation Alromer 724.
irvoides puscice in hrealbcanting wad nowhlohooting diginal cincuis suing TTL insegraned ciruin. The cirnien dur are consincted and nesol



## 14A. Digital Circuits IIA (3) CSU

Lnnerr 3 haur
Avonquintion Fhrmever 724 and 1 .
Cemprointion Finainemia 74R
A cooppichenive undy of a mprosncaine micooprocenios, with an emphates on the insernal whinecture, imarnciona sec, and nupporn chip-. The funderentali of miceo and evareo peogramming ase covend lopot and enque contel and interfacing with a a cody of hurware and machise
 coneme ap plication are diswased. AD and IVA conversios, memery ablies drociling lows orgaisation, and viming are alos curced.

## 748 Digital Circuits Laboratory IIB (1) CSU

Relowatery 3 hara
Canqubita Hommia 74t
Mxthine and asenhly lappage propramuing techniges an andied


 wo drial and dypial tre analog convenion and ocher inariment imtertaing tedhaiques are atramper.

## 31 Prolects Latoritory (1) APT 3

Laloweng I hears.
Requires she utulent, afier cosemilution wirh the instmactat, we deiger, asermetc, and desermine the characterisios of a project ineviving


 chankectivios, dheog. repuit, and eperation of the poopect and do all meach without dimet nupervision. All matriale are tapplied by the enudent

185 Directed Study - Electronics (1) RPT 2
205 Directed Study - Electronics (2)
305 Directed Study - Electronics (3)
Confinner I hwo per anit. -
Allows studenas to puruie Direcied Snoly in Bectmenias en a conerract thaik under the direction of a superviaing insurncms.

911 Cooperative Edveation - Electronics (1) CSU RPT 3
921 Ceoperative Edecation = Electronics $\{2\rangle$ CSU RPT 3
931 Cooperative Education - Electranics (3) CSU RPT 3

## 941 Cooperative Education - Electranics (4) CSU MPT 3




Supervibet inaining ir conducist in the form of on-tie joh mining in an employment anta that will enhance the sudent' edocationd gmohe.

## English

The results of the English Placement Teat or Form must be presented at registration or isclefed in the regiatration packet in order to enroll in English 28, 21, 28 or 101, Englith 11 , 2 z or $80-87$.
All undens planning so eneoll in an Englihh coune for the fíne time am apected to whe the Heglihh Phacrnens Tont at the Nieroe Colloge Asconnent Centes. Contact the Asemmest Cenver at (818) 715 -6499 for an appoinunent and sample test informaios. Placencat monla ar

 Placement recomemendations made by the Eaplish Phermont Tost ane atrisoty and inurnded to aniar utodens enoling in clames where they are mour hibly me nacceel. Upoe completing the iese, tentenes art stried of their rexommendel placrment and pires their autheriation me emell

## English Writing Laboratory



## 20 College Reading Skills (5) (NDA)

Lnver 6 han
Arrugufith fipmyplase now iv Aommow cominanias. Ofomi is J-anil madain.
Provide student with eatry ked opportunities so imperve maling competrminn, crirical thinking, vocabelury, and redasel tails necesary for nuccess in colloge dasas.

21 English Fandamentals (3) (NDA) Entare 3 hams.


Enphbies impouement of wiining particularly sentracs and parayraphes, and supplemens and reinfoeces tasic communication adilh induding puoctuation, spelling and uensence sernacture. Denciops abiliry to mad imbtically and think logioilly.

## 22 Technical English (3)

Lntwer 3 han:

Inchale maining for ntadents in the technial and indunvial feldr in wiving, resling, latesing, and ypaling, with emphati on the witing of echeikal repores, dimotreos, mertostands, ypecifications. Includer prepararion and prosenction of oeal mpors and proparaien of an eecoparienal texume

## 23 Advanced Vecabulary (3) (NDA)

Levinery 3 kvan.
Teacha whiniquer of enterging and eariching the individual's woabulang Includer a moly of the hiaring of langugr abd a muney of the raried demens, indoding those of Greek and Latin, which make up the Englinh lenguay: Inchides the andy of icmanrio.

## 25 Intermediate Reading and Composition (3)

Partially satiofiea reading and composition competency mepirrencots for AA degree.
Lenwer 3 Kinen
 at the Enghish Narwave Thi
Insolices the suilest to the cirmente ef componition and critical mading. De ligned to aniet the madent ee malic a moxceuful tramition no
 enay wnitig.

## 32 Colloge Litorary Magazine Editing (2) RPT 3

Inther 2 down.
This cowne malies the ways to perces poecry and prose wheined to the edinor of ibe literary maparine (Ditection), ia-dualing critical exluarice of short swevies and poorty, wwrieing, eliting and copt maling to aldios, it incluled priatshop eperimece dining makeip and proof. mading, suady and evaluaioe of obler collige linerar magrines, and trinieg is maguise peomotion and sale:

33 Basic Vecaliulary (3) (NDA)
Lniver 3 han.
 Begtid 21 ar Aa
 of word meaniop, structure and eiein. Intmduces the undy of
 orber nools fior beiling masulary:

81 tatermediate ESt fleading 8 Vocabulary (3) (NDA)
Lecher 3 hown
Provequiniten Euary houl ware es cernanst ans
Englah ar a Secood Latpaape Program. Acadonik reading for
 avllige nenling proficiency

82 Introduction to College English as a
Second Language (5) (NDA)
Snhir 5 Aemr:
 EX The
Intended for mudemes whose narive sumpor is mit Enplah. Inirodeco arubenus wo Enplah promunciation pariens, haic senieece pumras, and elementary camungication slall. Emplunises valigg ing pinement for comprebenulos, aleveloping a sipht woalulargs and lraming voud atrait thill.

13 Colloge Conversational English as a Second Language (3) (NDA) RPT 1
Iocraw 3 hawn
Perojuititer Apmpriase plecemewn on EKL. The
totended for vuidests whone native sonpre is noc Engfoh. Eapphaing hasic languape acquairion akill, inchading intonarion paterme, American ilinme, mentrnce partern, mammir as check fiel lisumpe cornownes. Aho inclated ase lavening abils, valing fur mabulary and comperheovines, and guiblol wrining

84 College English as a Second Language 1 (5) (NDA) In wase 5 hon.
 "gnote of "C' or trumer
Incended foe utudens whos natine tongoe is not Englinh. An isocenive tuilti-dill esurse emphaising butic apects of Enylinh grammar. puncruation, yelling, entence smentur Include ypaking and livening


ES College English as a Second Language II (5) CSU
Lercurre 5 houn
 of ${ }^{\circ} \mathrm{C}^{-}$ar fertert
Fer muken whowe native noeque is nas Englich. Isidudes drill ia the conetracion of mentrnces and dheir wodd onlec, grammat, ifions, puscuation, capistitatios, wocalnlarys and speling. Aho indula mealiag for coempubhenion and provice in puryraph wrining

85 College English as a Second Language III (5) UC:CSU Lennure 5 /ann
 of $\mathrm{C}^{2}$ er hane
For mulens whes nuthe tonger is nor Faglidh. Continues mo woik on the fislamencal of Fnpthh as a weceod languge. Maces emphutis on wricing ysax, and naling

## 87 Advanced ESL: Reading and Vocabulary (3) CSU <br> Lenture 3 hath

 ${ }^{\circ}{ }^{\circ} \mathrm{C}$ or drans
A uratig salils ause designed for advencod FSL umidenes. Includa Irafig for comperteraine, skimming, scanning techinigues, as well an curchics in crivical maling and non poone maling Will improve


101 College Reading and Composition I (3) UCCCSU (CAN ENGL 2 ) Loriver 3 lown.
 Enpld Phiveres int
Derelope profciency in mexling and writing duengh application of the primiplos of themevic and the oechniquer of critical thinking Pherequkine il is undencanding of the elonenn of framas, punctuarige, and menence arroctum: Ropuied for Englich majon.

102 College Reading and Compesition II (3) UCCSSU (CAN ENGL. 4) teriare 3 hown.

Sor alo Himemian 11,12 is 12
Introbosi tpee of literunue Concentrate on roding for enionnent, appectiarios, and the dorlopineet of crirical julgment. Enghation shimes amly in of that soves, pocts, novelh, and drams. Required for Englinh majin:

108 Compesition and Critical Thinking (3) UC:CSU Lanorr 3 hown

A couns ppocficilly deyppel to dal with the inmes of aritical thinking and wrines eypusion. It bolds ue the realing ado mitiag skills devioped in Engith 101. Ropen of grater loiggh and depeth are repuind.

## 127 Creative Writing (3) *UCCSU (CAN ENGL *) RPT 3

Lencive 3 hown

Proctes a wurbhop is creative wruing, Clas and insumcme informally dincuas and sivicive mulent' plys, pooms, short wories, and eways.
Encouapen undest purrieipaton in empm lerrery publication:
203 Wordd Literature I (3) UC.CSU
Envour 3 houn
Averpulation Fingtioh sor with a prate of "C ar levier.
Efint naz momevedol har nar mpuind.
Introlines die gren boela of the wuld from Hower so the Renainance.

## 204 World Literature II (3) UC:CSU

Innurr ${ }^{3}$ hasm

Exglis 102 mommonded hat nur neyuind
Contimue the staly of English 203, prescring peat books of the wodd frimen the ltenisuace to tecent timen. Fiplinh 2013 is not a preerquisite.

205 English Literature I (3) UC.CSU (CAN ENGL : Inture 3 hean.

Eaxiar 102 mamewnidel ber net mpuirnd.
Survers Eaplish liveranue from the Anglo-Siamen period thongh the 18th century Rropuined for Eoglah malon.

## 206 English Literature il (3) UC:CSU (CAN ENGL 10) <br> Lentare 3 ham <br> Prevquititer Explibh tot siah a grade of "C" or Alvace <br> Eyplath IOQ mamemedided har nir mpuind <br>  <br> 18ih century bie the 20th censury. Englinh 205 in sot a perequinime. <br> Megainal Bor Enpliah mujons.

207 American Literature I (3) UC.CSU (CAN ENGL. 14) Letwer 3 hime



208 American Literature 11 (3) UCCSU (CAN ENGL 16)
Intier 3 hown

Eudill 102 mmmonded har ner mpuind
Continue the mady of Eeflah $20 \%$, covering Amerian lerrauie from


## 200 Californis Literature (3) UC:CSU

Lnawn 3 houn
Amerplition Sygaid 101 nuith a gole of 'C er ivean
Eys 102 mamworded bur nv mpuind
The cosere presens shected vors by witen obuerving Cilifonis lif.
Resting from seevces as wuied ax Native Americas loyend und Hellywool memoin will demosature nach appects of he nuady of
 dincoune.

## 211 Fetion (3) *UC:CSU RPT 1 (CAN ENGL 18)

tentare 3 hom.
Prevpuibiter Explib 101 vibh a griel of ' C ' er leater

Emplunise selearel peat nowels and hhort notio furm hench, German.


## 212 Pootry (3) *UC:CSU (CAN ENGL 20) RPT 1

Lentrer 3 hwon


Emphanise mading, discuminn nel analynh of elected poene. Devigned so incous the sudear's undentanding and pyreciation of all form of poest:

## 213 Dramatic Literature (3) UC:CSU

Inwer 3 hown


Eiglint tal mintmrnind hur net mopuind
Surves dhanatic literature from the leginning to the ptoent dyy with eviphasis ne the norla of the mapon plejerights, nemh al Sophocles, Shulcopeave. Moliere, Shaw, Ihen, O'Neill, and Wiliams.

## 214 Contemperary Literature (3) UC:CSU

Leniur 3 hemen

Engtist 102 mummended har sur mpaind.
Concrntrases oe siqnifant lietatare since 1920, ptimarliy Americian and

Emphanis in ploced upon cirical analvis of doot mony. novel, drama, and pertr:

## 215 Shakenpeare I (3) UC.CSU

Lenare 3 hean

Engtant 102 noummunded hat nat mpiend
Inmolaces the life and woda of Willum Shaleppene, with euplusis on Shisopeart's miliex. Emphatien dersiled susty of everal hinury plays, catler comedio and trapricos.

## 216 Shakespeare II (3) UC:CSU

Intwer 3 ham:
Armpminite Englist for with a gnile of "C" or denem
Enquill 102 mummunded hwt nit mpuind. Mag br tetro bogerr Exphat 215
Concentrates on the laner comedies and tragedien, begimitg with the problem comedies, and proceeding thoongh major ungeries.

## 218 Children's Literature (3) CSU

Lensare 3 hown.

A survey of literumure suinalle for children of different age levte. Emphisin will he placed oa moxy telling, acquaintance with wowhon and the derclopment in dillere of desirable axtinades towand lieratum:
Recommended fir groypecive neners, Hindergerten, elementary and mevindary ceachens. Paress will find the courne helpfull in disovering what mating material is mailible.

## 219 Literaturs of American Ethnic Groups (3) UCCSSU

 Lernir 3 kewn.
A sudy of the lineruare of American ellaic wrieners reories, novels, plays, poems, enup, and oher son-ficion prove worla. Worla are cumined in the coetery of madirional and contimporary peoblems of American echnic yrops, ewh of which offee a unigue contribution so Americas socient:

## 239 Women in Uiterature (3) UC:CSU

Leminer 3 hown.
Aumwertitn Englith 101 neith a quale of ' $C^{\prime}$ er beven
Explah 102 mammexind har nor mguind.
Focuser oa major ployv and wotk of facioe from ancient times to the presest which mule women their centrnil churactem. Thih coose comelden the meflecion of women'i changing status given by the groat writers.

## 250 Literature and the Motion Picture I (3) AUCCSU

Inture 3 hoan
Avrequation Buglat tot with a gude of 'C' er heram
Eymines the conparative arm of literamure and the motion pionure.
Includer rendinp of liverary danion, screnenings of film danica based upon
there finersy somens, discuation, end writing of several crivial pupen.

## 251 Literatare and the Motion Picture if (3) AUC.CSU

Lnturr 3 hawn.

Contious the camination of the comparative ara of literanure and the mosion picture. Inclules mading of literary clamics, weterning of film danics haved upon these liecrary sources, diccusion, and writing of aticial pepen. Unes differest matrrials than Englihh 240. May be takm before Enginh 240.

## 250 Mythology and Literature (3) UC.CSU

Lemere I bown.

Englat 102 mummended hat not mymiond.
Inuodace the mulhology of Whaven and Near-Easern civilitations, beodened so indude nuch ether dements of folk vele as murchen, fairy sale logend, etiological sale, fable, nyyth, and motif

## 25 The English Bitle as Literature (3) UC:CSU

Levaer 3 heark

Enghin 102 mommonded.
A suidy of the Bitle with the Onford Annotused Revised Suandard Verione with the Apocoptha a the basic teas.

## 200 Sclence Fiction (3) UCCSU

Lentarry 3 heun

(Exglath $I 02$ momevendid hat war mpaind)
Thesen simene fixion as liternume, with enphanis on the use of
 philingolical ariented acience ficion, and science fixtion an fantary and ecape livenaure.

## 185 Directed Study - English (1) tUC:CSU RPT 2

## 205 Directed Study - Eaglish (2) tUC.CSU

## 385 Directed Study - Engllish (3) TUC.CSU <br> Cesforect 1 hewr per smik.

Allom atadenes so pumue Direcoed Srobly in Englidh as a cuarnar tosis undet de diestion of a supervining inurnctas.

## 911 Cooperative Edecation - English (1) CSU RPT 3

521 Cooperative Education - English (2) CSU RPT 3
s31 Cooperative Education - English (3) CSU RPT 3
951 Cooperative Education - Enplish (4) CSU MPT 3
 by ilv Higulturt of de Coppramir Pidwaniny Adriut

Supervied exining is condsad in the form of ob the pob unining is an employment aneet thar will enhasce the nuident's edocational guale.

* UC Condí Limis Mavmem ver awne
"UC Cradic Limite Merimum new onne
-VC Cendir timith Owe amine five Fyrtit 200 and 20 ?


## English - Business

## Environmental Science

## 1 The Human Environument: Plyaical Processes (3) UC:CSU

## Lenwire 3 hian

Famines the impacts of human activitien of our phosical tife suppert sysem. The Sclentific Mechod and tacharlogs: and hasic principla of matser and energy provide the pespective to underitand the nature of exter eavironmenal problenm and whut may be doee eo pmenent future impacts and mmeliune thone that here alrnify ocumed. Topical envinemenal linoes (e.e. dimate modification, the Omene lyess, waser digpoal, air pollurios, esergy inves, (IT.) will be cominnal with cerffil coovideraion of the huic icience whilch wolurions to that prutiom ment accommodate.

## 2 The HumamEavironment Bielogical Processes (3) *UC.CSU

 Lemiver 3 tian:Examine the ingacn of humse xchivie on the eanli's binologial ystem and mounes. This inclules discumione of the ocientific buik and primcipla of eculyy and ecogyom dred yonent ad djuamion Nopulation dyamict and ememnmenal mexiology Gerfil esanination will be made of the relentific bais for derminusion of inguat of pollation, eyricurume, and ocher human activities. Finally, whar hus been leamed wilt be applied to undentanding the pmblems of entallihing meaniopful envimemenal utasdande and regulations, with canful consideraion and emphair of the lavk wiemulific realities they mart reflect

## 7 Introdaction to Envirommantal Geology (3) UC:CSU

Lencury 1 haurs
Sumiar Gevhey to. Gmair ner giens for thet manm
Sondies rhe impact hat probleic poxnose have on the emvirumenear and haman life. Topios coreuing yeccal podtlems and limioing fuume
 fooling, duwniloge minement, comal emaion and deporition), conimonmenol lealh, ranh mpourco(watec, mineralk, fomil fivel, wiol and prodirrmal power, muclas enerper) will be divatied.

## 9 Introduction ta Air Pollation (3) UC:CSU

Lenery 5 hewn
Sime a Ahmioul Simner S. Gmiat ant pienu fir hath awnen
Inosiduces die atoident it dhe souscer of air pollution and the technical peltern af moining air polt-rion. The cwunc induda the pbosia of the "emophem, de chemiery of sir pollurame, mahtis methndt and pomille methute of polluriot costed

## 17 Geography al California (3) UC:CSU

Lenuw 3 han
 Ceven the uphos of Calfomis, their phyvial feature and mouras in elation io patirns of populainio and rettlenent. ecomomic activities, trangportainn tower and traile.

18 People and the Earth's Ecosystem (3) UC:CSU Lentere 3 hans

Eumine the himevial and concrig oury rola of human vocletien as a mujot apret of biologial clunge is the earth ecoogvim. Provide the bais for a tevied hiophicial grography that amidr the view that mat if an entipy apart foom the rcopsiten (natum) and upens der doer to an undentanding of Wiphoriod groppyhy largely froed from the concept that ous was a plasen viegie untul die boginning of die induurial nevelution.

31 Energy and Power (3) UC:CSU
Lemery 3 hean
litnodnos the modent wo wuices of energes from burning coul tu nuclear funlos. Discunes the phonical prisciplo iavolved with eash nounce of mergy ith emph whe ofi fcumftiry and porestlat pollutios puotlan of rach. Topics to le diacuond includes forsil-foel, oucleas, hydroelectic, tilal, geothermal, solat, and sher energy foems. Energy used for transponation and solidenatial livigy to disciased. The important role of cuiticrvation is cuansist and iciutcitis ace concouisgnt is formitaic their own remger policias. This conene is disigned for the grnenal estacation nament.

185 Directed Study - Eivironmental Science (1) tUC:CSU RPT 2
285 Directed Study - Emvironmental Selence (2) tUC:CSU
385 Directed Study - Environmental Science (3) tUC:CSU
 Comfirme 1 har Act minit
Allown studens no pener Dincrid Sruly in Envirominenal Science on a

*VC Condir Ihimith Mavimum ane awne:

## Equine Science

## Finance

## 1 Principles of Finance (3) CSU

Lentury 3 have.
Fiamises the puincfptar of mones, credi, baeling, and the role of the Fedeal Reserve Sytem. Sruates baineas arganirativa and finamcial policies, the finuecial ywem and ryper of fisancial inuruments, inmerer teen, tapinal manaponens, muney and copiral marlires, and bhe effect of gimentient policy on thone finuscial marketh.

2 Investments (3) CSU
Lentior 3 hean.
Timpluains ite mely if ite atock marher from a percical vievpoint, indaling mading of the finaacial puga, analpir of induatrial, ailroud, public sility, mutual fund, ton free ani goremment necarities, and che ptoper procedume for buying and arling atocks, bonde, and aprions.

8 Personal Finance and Investments (3) CSU Lenorr 3 heart
Coarains lecturn, dicomions, and practice in applying the principlos of
 and menhandiving ta one's pesunal affains. Sereses family belyoving conuuner cerdit, home ownenlic. Wife and peopery inneraser, inverment and aving plase, mocial security and netirement plasu, and penonal urned teeply

## French

## 1 Elementary French I (5) UC:CSU (CAN FREN 2)

Lecruer 5 hnant.




Iarroduces the fustamestale of promuncievion and gramemat, pactial nocabulang, and useful phrwes. Emphamiza the ablity to underwand, opak, read, and write tifiple French. Eypoes the stabent to the culvure
 the dan in cololused as mach as poills in Fuench. Conesponde so the fine your of high shool French.

## 2 Elementary French il (5) UC:CSU (CAN FREN 4) <br> Lerchers 5 hown.

 ar henerer is ciinker cone
Rocammonded Concurves mollinent in firwod JOI.

 dend comilf in Fown 4, 5 em 6
Costinues die suidy of baik French convenation eaing peactical vocahulary and reguler and inegrular verbe in the prosest and past eenes. Finhrace readiop sed tialopues lued en Fienct culnums. Sereves enal communication and resting and writing for cernpechention. The clas is condurwed enviely in Frend eoept for grommar dorifosion.

## 3 Intermediate Freach I (5) UC:CSU (CAN FREN :8)

Lechurr 5 hown
 C" er iemer in nifler case.

Aromemomded Alipibilig fier Engliab 28
 netine prouden
Complets the suaty of huik Freach yramas. Inchides moue challenging mash, and further anglostaiun of writing asd ypeaking though written end eal dialopes. Teches French culmese es fock-pround for cunvenatios and ecalinge. Clan is condocrod entingy in Frmeh ewope shere gramurial coecepts neel Englah darificasion.

4 Intermediate French II (5) UC:CSU (CAN FREN 10)
Lention 5 hewn.

${ }^{2} C^{\prime \prime}$ er howar is rither cas.
Avenumended Cesoment camilienest in Hivabl 101.
 neine ypader:
 and Fremb-spoling cociutios, in conjuaction with convernation and dincumis. Ibcoporsies review of de haic arocruse and grimmar of the Frish languge Emphatives wrines composition as well an warl compehtemis.

## 5 Advanced French 1 (5) UC:CSU

Encare 5 hown.


 surive phadrn $^{2}$
Continue the mudy of grommar and of literaruer from France and firnch-jpelitigg couatrics. Indales afrumond componition, and the mer of persial illicen, Sureses onal and wrines repors os France and Freochqpaking comitrin

## 5 Advanced fronch it (5) UC:CSU

Lenter 5 dian

 tenter fockitm.
Studies mine importantivas from the wevateesh century though the preces day with secial enplimia an neal dicomion and wrines andyis of the limrarure of France and Fmed-spolingg conntrin.

## 8. Cooversational French [2] CSU RPT 3

Lomerr 2 hwan.

Recommended Cowervat ensiliness iof fiench 101.
 of kenies of Funch veibs, and fundunenal senumoe unktare.

## 81 Practical French for Business (3)

Iecherr I hasn.
Ammejuinike Firest 1 er gafintime
Alrmatly afirmd in ale Rall urmener eole
This course cresins of Incture in Explah and exercinct ued conevessarivnal praxtice in Ferech, rlanod to conmesial and matiering envinoements.
Suilens will acquirt ills in Suisen copropondence in Fresch and fimiliarite themelver with beniness and rocial pracrice is French-apeaking countile.

## 101 French Language Laberatory (1) CSU RPT 3

Latewary 2 hown.

(This in a cedie/no-codit coune Suulents receive one wit of colloge aedia with no laser grale ly ypending at leat 32 houn over the ectwater saing the equipment asd moulatly lundiog in the lab wodkook anigamens is their instructot.)
 tis echanis intenccion. The worlahtg meres on the firm floor of the Whayy in The learaing Center (TLO), the Melia Centet, and/or in ML. 2114.

## 185 Directed Study - French (1) tUC:CSU RPT 2

## 235 Directed Study - French (2) tUC:CSU

## 395 Directed Study - French (3) tUC:CSU

Cogfinencr 1 hour per suik.
Allows undens to purner Direcuet Smely in Firench os a conemar hanis under the direction of a mperviwing inuructire.

## Geography

## 1 Physical Geography (3) *UC:CSU (CAN GEDG 2)

Leviner 3 hewn
Séudion the main featopes of mun's plovical exviroument with emphasis ot earth sun melacionships, phobes, map, weathes, dimate, landformn, milh, nururat vegratlon. and their parterni of modt tivinturfion.

2 Cultural Elements of Geography (3) UC:CSU (CAN GEOG 4) Enhurr 3 hworh
Seudien the bavi humanfoukunal elemente of mognosiy and theit correlatios wich the phyikal envimemine. Enpthasis on popularion. cultural devenirys languies, eligines, thene of hevihved, temement parterns, policical erganitation. Specific cuuntries, arcas, or celtural


## 3 Introduction to Weather and Climate (3) UC.CSU

 Inther 3 hane: Sruslias she satuer and caves of seather phenumena including wints, cloods, tain, liphtning, tornadoer and hurricanes, miar coergy,
 modificatios, the impact of wrather un the human emvimnnment, and introducrion to climate:

## 5 Geography of Reseurce Utilization (3) UC.CSU <br> Lerraw I hower.

Develope the banic prisciples for the aer and conservarion of human and natoral monunges through a mpesentarine sonfy of primitiee livelikoods. world agri-culnart, fomary, fithing, mining, manu-facturieg servia tedentries, tratmortsion, Ind mite.

## 7 Werld Regional Geography (3) UC:CSU

Lecruer 3 hewns.
 thow franuer important to an undentanding of curmar pobal cnocrms and peokems.

## 8 Introduction to Urhan Geography (3) UC:CSU

Lecluer 3 henen.
Sendion the arigin, devolopment, datriburion, and rofomal variainn of the wodlifis citien, with parricular enphais ee an andyin of the fincriont and parterns of ihe American cities.

## 9 People and the Earth's Ecerystem (3) UC:CSU

Lenave 3 hown.
 Fxamines the hotorical and cunarmporay males of fuman vocirties an a major agrar of biological change is the eart eow-potem. Powida the hais
 entivy apart from the rorryuems (nemer) and npens the bone to an undantanaling of biophonical grography leggaly fieed frum the coniepe that uno wan a planet virgios ant? the logiuning if the Indurtial evolution.

10 Geograply of the Americas (3) UC:CSU Lensure 3 hann,
Prumides a mopional mady of Mibllie and South America, Canada, and the Unined Seatcs, with an ecaminarian of the phymical and cultural paopaphic bockpnumdr if the Americar ind the curfest coseowk and latid ese puticme.

12 Geograply of Africa, the Middle East And Oceania (3)UC.CSU Enwer 3 hean.
Cartrlares the phynkal fuak grownof sith cutrumal, ocononat and polirical development ef principal countries and pooples of Afrioa, Middle Eant, and Ocrania.

## 14 Geograply of California (3) UC:CSU

Lentare 3 heur.
Same ar Eapinnswelal Selirnar 17
Deliseares the regiosa of Califomis, their biophynical framurn and movinces in relation to panerns of popilation and sertlemeni, ecrummic stivition, trade, tranportirion, and exrinesmentat problems.

15 Physical Geograplry Lahoratery (2) *UC:CSU
Lecture 1 dear Gelanatery 2 har.
Prereqwinite: (impopity I.
Conen plotriag interpolarieg, and iaterpotcing of rant-man relationes times, eanh representanion through golocs and mups, temperitume, moitsars, premine, slimatr, naniral vegration, soll groupe, and landfam evolution by tratoric foncer, thulon, ind depoitrion.

## 17 Plysical Geography \& Laboratory (5) *UC:C5U <br> Intart 4 hown tahoverary 2 hown <br> Sowe as Geoguply' 1 and 15 rambined

Srales certh weas mlatinnt, time, earth represeotsian though mape and plac, हemperamus, mointur, peesure, climats, vegration, mil goupu.
 interperation. Iabostery imeshes phenting inserpolating, and feserpertion dast than ì opecifinally linhed mu lecture tiplia.

## 20 Field Stadies in California Geography (5) CSU tevare 6 hean.

Field munge of proploland eflations on the divene phyilal and coltumal landspes of Soochers CUlionnia. These nurmp eqhance the undencanding of pas and peoctr coltuml ervininmenn that people meprimpose of their naturil envinomment.

## 1 105 Directed Study - Geograplay (1) tUC:CSU RPT 2

295 Directed Study - Geography (2) tuccesu
385 Dirtected Study - Geography (3) tUC:CSU
Gonfrume I hour fer anit
Averywilite $d$ minienaw of 3 asia it Gimgnjph
Allows matens we puruse Diencted Sendy in Geography an a contrict thaik minder the divective of a mepervining inurnatot.
*UC Cradir Limin Maximant 5 snial

## Geology

See also Emvirunmental Science 1,7; Oceanography 1, 10.

## 1 Physical Ceslogy (3) UCCSU (CAN GEOL 2)

Letarre 3 ham:
Introduces the student to the grneral field of pologk: including a study of the work of rivers, wialh, glacien, ocrana, vulcanimm and reismology is shuplet the earth, with rmpharis upon the relation-thips ciating between humains and the geological proceses.

## 2 Earth History (3) UC.CSU

Ienner 3 hown.
Mirmally dfient is ate Spring mmensur anh
Sindin the evolving earth thruaph in mock asd fowil recont. Incapporasen ennceptr of plane trictinics, ate dating, rock correlation and evchanon to Foconitruct the ever chunging pinemt of fomem, rnvimemenes and orginints on the carth's iurface fiom the formation of the glanet to persent dey.

4 Physical Geology \& Laboratery (5) UCCSU
Levore 4 hever Lehonaury 2 hours
Sime as Gollyo 1 and 6 orminen
A woudy of the wolk of riven, winh. , placien, ocrank, vulcanime, and seistoolorg in shaping the earth, wish engh-anis ifoes the mlatiomhipm ealatige berwees frumum and the grolopic proceucs. Labotatney cermien in sock and enisenal identificarion, and map interpertation.

5 Physical Geology Laboratory (2) UC:CSU (CAN GEOL. 2)
Lernart 1 Aowr: Leloveary 2 hewri
Prempmipiten Gimfigy I ar omenownt invillerst
Laboratisey entricise in Identification of noch-euhing and ore minemh. igrowas, mectamophic, and velimeneary tocks. Inecrptetation of sopogrophic mups, geo logic mops and acrial phomogaplat Goo-lofy 6 is imendet en astify prinical scienar lab crefits fir alt minfents on curmently ensolled in Geolopy 1

## 7 Earth History Lahoratory (2) UC:CSU

Eencerr 1 haur, Lahenaury 2 heurn.

Offrs opporsuniries tor learn sechniques and akills sund in deciphering earth bistary. Inclopies ibe idenurfication of fonils, ese of mape, esercises iw agr daring, correlaioth, and reconouruction of ancient envimuments.
Normally offered in the Spring weriesier enly
10 Introduction to Environmental Geology (3) UC.CSU Enturr 3 heurn

Suation the impoce that grolopic poocnes huve un rhe enviponment and human life. Topios craning special prolilens and limiting forurz
 flooding dewmlope moven ent, ounal emsion and dejonition). civirunoveral twalth earth soonunces (witer, minerals, foeil furl, wind and genthermal powes, ewolear energy) will be diacumen.

11 Introduction to Coology; Our National Parks and Monuments (3) CSU
Lentwer 3 twars
Sarneys she poological development and frasers of our Naiceal Puha and Monurnests with englisis upon thone located is the watern United


12 Introduction to the Goology of California (3) UC.CSU Intarr 3 hwn
Sarnes the plynical and hinturial groloye of Cilifornia. Gives cansideration to the twelve gromouplic pruvincen iero whale the base is
 mfermince to the later part of earth histury

17 The Age of Dinesaurs (3) UC.CSU
Enture 3 hewr.
 pitpiolary, behavior, ecologic relationships, and extinction.

22 Ceomorphology (4) UC:CSU
Lecuirr 3 hiwes Zibunuwerg 2 hown.
Noten Thu ansine in daygt in I neih madalo.
Offers a basic coume in the decriptian, evolarion, anel denificition of landfocmi. The sudent will have as oppormenity to ceamine mpresentarive landforms thongh firld eripe.

185 Directed Stady - Geelogy (1) fUC:CSU RPT 2
285 Directed Study - Ceelogy (2) tUC:CSU
3 35 Directed Stady - Geelogy (3) TUC:CSU Conformer I howr per anil.
Allows students to purue Directed Seudy in Geology on a coetract hais ander the difectinn of a mpervising imaructoe.

## Health

## 7 Physical Fitness and Nutrition (3) *UC:CSU

Inture 3 hans.
Comiten the narure and importance of phynical firnest and good mutrinion in our jeromal and nocial developmest. Anslyme and evalutas various types of muicular activities in termis of students' needs and intersuts. Encoarages the selestion of uurritive foods for weight control. fluese prevention, and ponirat well being

## 9 Health for the Mature Individual (3) CSU

Lentert 3 hevn.
Desigood tw mect the perwobal noeds and interenes of the marure and older mudents in the fichd of aping. Emphasis is placed on peomoting and malutalaing powical, moocomat, and nockat pood health, despite ponsle fimitation of afvaning.joant

## 10 Health Edocation (2) *UC.CSU

Lenner 2 hans
Nistav artinipy ilan.


Comsiden the nanure and fanctios of health in our social pauers. Ceacepraal analyis of major health peoblems delgned to contrihute to atulenes' attimules tevand their mies as individuals physically, emotionallys and iocially,

11 Principles of Heathhful Living (3) *UC:CSU
Innerr I hown.
Nor an avtrinity clan.
Nove: Condit given for eriller Madhb to or Hoahh 11, har ner deah
Fincompaser ithe same cootent an Healith 10 beit exploms the matrsial it greiter depth.

## 12 Safoty Education and First Aid (3) UC:CSU

Lenderr 3 hawn.
Doer mot ment halih mpwimserve for grihastios.
Cabtirs of inatrucrion and practical application in the pervention of and care for comunon accilenb and enicy gencies in the homic, school, asd cummminy: Standind and atvoct Ameloan Red Chom conificanct mur be granted upon sarifisctory onengletioe of the course. Recommended for phyical education, recrearion, and allied health majors.

## 185 Directed Stady - Health (1) CSU RPT 2

## 285 Directed Stady - Health (z) CSU

395 Directed Study - Health \{3i CSU
Copferenar I har for wili.
Allom snadenes to purnue Derected Seudy in Hralh Fducation on a coseract bais under the dimction of a superviaing imatnuctor.

## 911 Cooperative Education - Health (1) CSU RPT 3

## 221 Cooperative Efecation - Henlith (2) CSU PPT 3

## 581 Cooperative Education - Health (3) CSU RPT 3

## st1 Cooperative Efucation - Monlth (4) CSU RPT 3

 by alv algenture of ale Copprembe Fiwatives Adivinn Limion to Inengfer credits Ser Coppenntior Edeatios Comitr Guide Sopervised maining is condacted is the form of on-thejob utaining is an employment ane that will enhance the suident's edacational gouls.
"UC Condit Lisulb Mavimem mer cranir.

## History

1 Introduction to Western Civilization 1 (3) UCCSSU (CAN HIST 2) Letarr I hewn:
Teaches hinsorially mujor donemo in the Wiomen heriage from the world of the Gireebs to the Age of Abroluriam in the 17 th amrary. Furthen loginning stadent' greneral edocation, introducing them we the
 them, through radieg and critical dincumion, wihh mpiomturive contemperary doca-ments and writing of endining interet.

2 Introduction to Western Civilization II (3) UC:CSU (CAN HIST 4) Lentere 3 hess:
Tachar Muserically maine dements in the Wourn heriage from the world of the Age of Abevlutium in the 17th century to bie present. Funthen beginning suudesu general elucation, introducing dem to thr
 them, thoough realing and critiol diocumion, widh mpoesentative conteniporary docu-mesta and writing of enduring internt.

3 History of England and Great Britain 1 (3) UCCSU
Lenciev 3 heun
Surneyn the politial, ecunemic, asd culnual developnent of the Britiah like and the Empire from the carliost timas to the eighteenth costurg:

4 Mistory of England and Great Britaln il (3) UCCCSU
Lercion 3 hewn
Thace the political, economic, and caltural developmest of dhe British lales and the Empire from the eighreenth censary to the prosent time.

5 History of the Americas I (3) UC:CSU
Lenterr 3 heum
Teacher the politioal, secial, and econemic development of the America from procolumblise times se the beginning of the develogownt of nationalinm.
6. Histery of the Americas II (3) UC:CSU Levane 3 hours:
Sarreps the devilopment of the various national statax with special consileration of the social and political affain of the rwemieti cennury

7 The Worlffs Creat Relligions (3) UCCSU
Lennery 3 hour
Offen a critical comparion of the woldd': grat meligions, an well an an appreciation of ecligion'r conerihurion to humanity's colrural herituge.

## 8 History of the American West (3) UC:CSU

Intior 3 hann
Concens the hisery of the emohing ferenier finm curly aplorativen and the Wosem Moverwent no the lane niestecmil centurs Indolat be comideration of the ervimemenal factons thar shaped the fromities, the people ehe occupt the frumien, and thelr curtoen. A staty of the rive of democacy in the Wert asd la influence co the ret of the Unied Satas.

11 Political and Social History of the United States I (3) *UC.CSU (CAN HIST हi) Lentier 3 hown.
Sarwy the himary of the United Stata from proColumbios tinas on 1865. Devoea particular amention ma the politioal and wocial development of thit period. Sarvegs fedenal ceentitutinn.

12 Political and Social History of the United States II (3) *UC:CSU (CAN HIST 10) ternure 3 han
Soness the politikal, nocial, and imuinutional duages in the hivesory of the Unitrd Strees since the Coril Wir.

13 The United States in the Twentieth Century (3) **UC.CSU Letwre 3 hown.
A hisevioal murny of the majer politiol, economic, inerliocnal and cultural mivemosis and menas of the twentirth crarurg:

14 Solected Issues of United States Mistory (3) UC:CSU Intort 3 hevn.
Tress lvaic imua io Unimel Soates himeiny incluning a maly of the phitonpity undetioing the Declaraion of Independencr and the Coestinuion, the comflaing vievpoints of Hamilun and fefferon, the curge of the Coril Wers the ingact of the Intontrial Remlation, an exluation of the Fogersier Mowevest and she New Deal, and the Iignificance of A metici emergmor an a mull powes.

15 Economic Mistory of the United States (3) UCCSU
Inviver 3 hawn

Srreses derilopment and dhager in cocencmik inuitutions. Considen the nature of American Corialinm and the effectr of induerrialiuntion on American eweomik Ite.

## 20 Histery of California and the Pacilic Coast (3) UC:CSU

 Lenure 3 hean:Sorvegs the himog of the Ruific Conet of North America from the period of the caplorations so the proent. Emphamises eopecially the cultural. polirical, exonomic, and moxial derelopenemt of Californis.

21 Histery of the Russian People (3) UC.CSU Interr 3 hewn
Trace the polivial, nocil, exasemic, and culumal derolopmenta of the Rumian people from their ceigion no the present day Enephasines in parricular ble eapansinst of Rusis, the intenelarions betwees Rumis, Asia, and the Were, and Soviet Reantis since 1917.

## 27 History of Africa (3) UC.CSU

Lenterr 3 heen:
Coves the himory of Africa from ascient times wo the presene Iscladea the hatorial ramificueiose of the African Diappora to the Wertrm Hemirghere and the opecial ertariomship of Affis to the Unitred Stare.

30 History of Centemporary China (3) UC:CSU
Lenwer 3 buan:
Explees contenponary China by examining traditooal and portnevlutionary polition, econosuico, nscial structures, and ideas. The couns raines quastions about how China can sccommodate elennents of the prut while builling for the future.

## 40 American History in Film (3) UCCSU <br> Intwer 3 ham

Survep American history from the Salem Wisch nials in the Calonial period up to the Cold Wat, wing both documestary and dramutised filma to lilutrate key evens and ides in American hintory

## 41 The Afro-American in the History of the United States I

 (3) *UCCSUtermarr 3 hown.
Surnys U. S. hiutory froen the carly Colonial Ena hrengh the Coil War with ypectil emphesis on the coneriketion of the African-Aisktican. Funcifer a bat proued in the politect und vocil devel pment of ite Unired Susen for mudense majoring is the Social Sciencon and in adieion, for thoue who whh wo gain a beter milenaating do the African-American in American civilitation. Isclude a nuwy of the United Sasa Comaitution.
*2 The Afro-American in the History of the United States II (3) *UC:CSU

Lenture 3 hosn
Surves U. S. histury fium the and of the Coil Whe to the provent tima. widh rpeciat eniphisis on the African-Americas in the nociul nal political development of American civilianion.

43 The Mexican-American in the Political and Social Histery of the United States I (3) UC:CSU Eefare 3 hewn.
Thece the histnical emplution of the Merican and his culture and finatinuioes $t$ 1865, and survey the coneributhons of the MascanAmetian re the United Sasm, with perioular emphanis en the
 Wat,

44 The Mexican-American in the Political and Social History of the United States II (3) UC:CSU Iexier 3 heunt
 andyas the afremash of dhe Mecican-Americae Was immigyaina fmom Mesico, the "Blocra" program, the Cril Rights moersent, and the tentributene of the Merican Amerisan te the American experience.

50 Twentieth Century Europe (3) UC:CSU
Lechow 3 houn
Surnen the polirial, ecooomic, woial and calnual himany of the Puropan nationt since 1990 widh peference no their mathos with ther ust of the worlaL.

52 The Bole of Women in the History of the U. S. (3) UC.CSU Inver 3 hian.
fisplones the politied, economic, social, and inerlecual himnory of womrn ie the Soveloperent of dhe Unimal Scates fiour hat exply colimial en to the present dry with special rmphumin en thris coneribution an well an dheir puntlems.

77 Hehrow Civilization II (3) UC:CSU
Iecrary 3 hown
Thace the malor phaws and events in thr Hatoeical-religious developenent of the Jreish Trople from their Meoppotamian origins to the perows. The grosest emphais will be os the late 250 yan from the Enlighmment to the emeryor of modem level.

## \$6 Introduction to World Civilizations I (3) UC:CSU

 Lnrier 3 henen: coviliztions and their cultural traditions and courributions frum the earleat times su the beginning af the era of Europesin expastina is the tiatered century.

87 Introduction to World Civilization II (3) UC:CSU Leviry 3 hown.
Trocs de developrear and interntationahipe of the nupoe wulld civilisatioss and their cultual traltions and costributives foum der er of Fusopean espanion in the sissernch censury so the peosent.

185 Directed Study - History (1) tUC:CSU RPT 2
395 Directed Stuify - Histery (3) tuc:CSU
Cinfinan I tuer per anit.
Allows stialente to pussor Directed Seudy in Hisory on a contriar batin under the dimection of a mpervising inutnacte.
 *UC Condir limio Hining 12.13 and 12 amlinod, mainum one asen


## Horticulture, Ornamental

## See Agriculture course listings 700-899.

## Humanities

## 1 Cultural Patterns of Western Civilization (3) UC:CSU

Intine 3 hever
An cuplonation of our poeibitivies as haman leing and the crative proces undalying cur groatos schicremena in at, mmik, crufumumhip, unlipone, lieranse, philoneyty, and scientific exploration, as well wa an ammpt in wer the pluer of each of these in a neal penpective on the turman coodirion:

## 2 Stadies in Selected Caltures (3) 1*UC:CSU RPT 1

Leciure 3 bawt.
A muly in depeh of a particular culture much as Moden Grear Britain. Imperial Chiss, Sivetruat Asia, Remainuser Itrly, eve, Ieduding Hosical background, sipnificant coltural ternd, and ky penonalider.

## 3 The Arts of Contemperary Seciety (3) UCCSU

Incart 3 kivn.
A colnural himorys including literarure, mukik, vhual arts and film of the 20th crarurg. Emphais in on Wearra European and American colture and idres busk wo the denlopment of costenporsy ant.

## 6 Great Men, Great Eras (3) *UC:CSU RPT 1

Intury 3 hean.
An ineretisciptinary progrem in the tiberal arth, which cower an himorial periind wach an the Remaisance from the penpectiver of philowophs art mukk, literanare, anhitecture, science, etc.

## THE HUMANTIES CORE CUR男CULUM HUMANITY AND WISTERN CULTURE

Humanities 11, 12, 13 and 14.
Deigend to neer a lage part of the gencral edocation mpuitenentu for the Aluckiate in Arta digre and bor stodente tramferving to four-yeat innientiens. Thes coures offer a unipue epporcunity for a
 dhe ant. Whasy, literature, mukk, and philasoply of wosern divilination fem peliletide tina te the proens. These ase no presequitires, and each anarse may be nhen ieparately.

11 The Ancient World (5) UC:CSU
Livatr 6 howis.
12 The Middle Ages and the Renaissance (6) UCCSU
Inciart 6 Anwn.
13 From the Reformation to the French Revolution (6) UC:CSU Levare 6 hawn.

14 The 19th and 20th Centuries (6) UC:CSU
Ininur 6 hown
30 The Beginnings of Civilization (3) UC:CSU
Lnwar 3 hewn.
tatsofuces the groenal concepts of the farnanitien from ancienr time to the Resumunce. Lietsurie, ifess, and att ane mulied and compared io
 placed on awaseness of defferesers in csthural heritages, valuse, and penpectives as reveded in the Arb.

31 People in Coatemperary Seciety (3) UC:CSU
Levires 3 hewn
Surves humaniry's cuhural deriopneat from the Renimance to der present. Presents genenal information on che arss, literaturs, and lidas of the Renaisuince, Baroque, Neoclanic, and Reeantic periode Cencluder an cumination of Twcatieth Century colture in paricsler, Siver Humanition 30 and 31 arr independent ef cach ether, bey moed nor be alen ie noscentire onder.

60 People and Their World: Technology and the Humanities (3) UCCCSU

Lemare 3 heant.
Examines ant, muik, lierranarn, drama, philoophy, and hinery in an eqpheation of the urhan environgeat and rociety as it has been affected by rechaologes.

61 People and Their World: The Creative Process (3) CSU Lentrer 3 hewn.
Sarveys humuhin's citation as enproset ia mythe and dream and explones werla of arr and lierratare to discover the ange of humuniy's erraive instinct. levedve art, munic, lieteruus, peghofage drams. phitiouphys and history
(t) Cuttural Heritage of Los Angeles (3) CSU

Lentien 3 kom.
Examine the uniper qualities of the grater Las Angels wea dhroughas mady of is grogaphy: atheoligy, histors, an, aechirecture and echnic cnatriburions. Clmmom perestations will be supplemenend esteninely with fedt trips to focal sitrs.
*9 Current Musical Dramatic and Art Events (2) CSU RPT 3
Lniner I hiser firlid vip 3 hean.
Eneicher the woilmic eqpertunon ie ant, dance, drama, and mak. Expands culural awarenes of the itudent by powiding epportunities to amend a wide vatiery of concers, plops, dance, and att evans; and no diccass these with ficulry unemben and gast ariers to mocentram on ooe ares, supplemented ly the ohber three.

105 Directed Study - Humanities (1) tUC:CSU RPT 2
2es Directed Sturly - Humanities (1) tUCCSU
385 Directed Study - Humanities (3) tuc:C5U
Conformar I how Aer anit
Allows wudenes wo paruit Diecend Snuly in Ivamanities on a cononat baik under the dirictilos of a iapervining imatrucas.
"UC Credit Iimite Masimanw ane rmarie.

## Industrial Technology

Industrial Technology cournes ars listad individually under sub headings, e.g- INDUSTRIAL TECHNOLOGY - MACHINE SHOP

Automotive Service - Listod separately Drafting (includes CAD)
Electrical Conatruction and Maintenance
Machine Shop
Industrial Technelogy
Numerical Control (includer CAM)
(Compater Controlled Machine Tools)
Welding
Woodworking/Cahinetmaking
Industrial Technology classes are attlilated with the Society of Manufacturing Engineers and Amorican Welding Society.

## Industrial Technology Drafting - Mechanical

105 Blueprint Reading I (3) CSU
Lenurr 2 hanc lilinuily 2 henh
Primile mining in teating haic engiserving Blacprians widely wed is conteonperary masufucturieg indueties, Both dle vimaliatioe and isterpretaion foces of mading are given avemive coverage. Fxpourre and analyis of conunon draning ryper, vlem, line, dimensinnt, merinces,


112 Applied Techaical Dratting I (4) CSU
Lncurr 2 leanc Llenutg 4 Kian
Imawst in the hame miderlying primitples and theorien of mechanial dhawing, the ese and care of inatumerst and equipment, and Wurpriaing. Tipia camened include fiechaad nerheical skectliby
 dimentioning stasdads, hamertic pictarial drawing, nectional vires, amilliny viens, and derelopencht of flat pustema.

## 212 Applied Tochnical Dratting if (4) CSU

Lnnarn 2 hears Leluntan 4 hans.
Averepuiniten faduansel Indinilig $1 / 2$
Applies the conorpts and will loanol in baric drafing no the manuficruring induang: As invertiediate leved ef interairy is enppged that ioduda oblique picuerial derwing, atruscel sectioning adranond uniliams baic amemblies, alvanced sheer meval, and uechnial inliny Indusles a maty of dimenvinal weleranciog conventions and apecification of screw thred callovt.

## 211 Applied Computer Dratting I(4)

Lecrier 2 houns lebbuating if harn:
Armpuitite /elaritial Thitu-log 112.
Provilos havik maining in the theory and practices of dementary computervided drafting. Emplanin will be placed on mechanical enginecring dawings as thry apply to induatrial manffaruring disiplines. Analyis of computer ypo ar well as handware component ue and care will be itrumed. Boch opetatiog and application wof(owre is discoseel and ueilied to reprocst and specify simple detaí dravings.

## 205 Technical Descriptive Geometry (3)

 Lecharr 2 hown Lelorumiry 2 haun.Privides trining is the analyih and solution of arthogaphic prijectios preblemu throggh application of the fundaneatal prinsipler ef desclipeine prometry. Emuphasis is placed on exporure wo and interpsecarion of peists. lines, and planes in peimury, wonndars, and succeuive ausilary views. Thengy and peacrice arr iscluled that ienolec vimaliation and paphk reprocentainn of intenextiona, waple, paralleliums perpendiculerity, and revolutions.

## 312 Applied Technical Dratting III (4) CSU <br> 

Enphumes the advenced sualy of dafring induarial pooducion parn. Inclales the drasing of carr and machined detailh for comepectesaire asemblies. Devoes special atrumion to surfier testure specification, revilion documentutian, woekine drwwings, mai previsinn fins for
 and pometric dimemioning and molernociof

## 317 Applied Computer Dratting 11 (4)

Enture 2 hones Ledoncing 4 hann.
Pernequitrine Induurial Inlmolyg 217
 eneruion of sechakal dawing ihat fratum an intermetiane dopor of dafficaly. Aran of concentration inclule simple pictorial dewwing, benic asemblies, and theet metal layoun. Aho induidel ave anipomens involing alvineed multiviow desils with vabou nectional and suniliary view mefirements.

## Cooperative Education - Work Experience

Ser linting under Induarrial Technodigy Genent

## 173 Electrical Codes and Ondinances (3) RPT 1 <br> Lentruns 3 hourn.

Offen special trsiming fire electrial witenen who deire to become thoooughly familiar with the varinus coden and oedinances mender which they work. The snifest sustics ponenal codes, wiring methode and firtings, and ciecuir requiremena pecified in the vatous unlinances.

## 273 Electrical Cedes and Ordinances II (3) RPT 1

## Enturr 3 hwan.

Continuer codes and onlinasces for elocrical wiernen. Avess of staly indule code neguitencuns on oflyment inutallatios, motor installations, vacious tper of occupascios, and high rolage circuis.

## Industrial Technology - Machine Shop

## 130 Technology of Metal Machining Processes I (3)

Lecwerr It Laterniey 5 han.

 He sump memintre
An introduction to the fundumenilh of mesti- machining proceses:
Thenry is supplernented with demomurations and/or prockee oe lathec, tills, prindec, drill. The coune convegs cpectpts of meta-machining te: drafipermats, engineend
denigners, NC programem/ operines, QC injpectans; and proniles eurr hend has te machinith, machine operators, and mod maken.

## 230 Technology of Metal Machining Processes if (3)

Larnarr I howe labestang 5 hean.


 Iscrease the depth and broufth of uiskestanding of the theoretical cuncpis and proxisal skilts inuoduced in Industrial Technology 130. The sudens will advance deit atalia in meallurgy theory and pracrike. enginerring material, merrologs and seevemional machining techaipue. HIM will be intodued.

## 330 Technology of Metal Machining Processes llit (3)

Inciare I howe Lelivating 5 hown


 ate um lour is ate uew wewise
Eimphasis is placel ee che denelopmest of skill and cosarpos leuned is Thturial Tachunlogy 130 and Induatrial Technology 230 for chase persuse who will be emploged io the mesal-machining induatry. Clone
 igs boeing will be iutroduced.

## 331 Toel Dosign For Production (3)

Enciary I hown Ladewatery 5 hown.


The analont nutio the rooling and fiumuing eccesary for peoduction in convestional ant Computer Numericat Concont (CNO). The coune mepuires a ligh flegre of initiative on the purr of the madest to complere the couns:

# Industrial Technology Numerical Control 

## Automated and Computer Controlled Machining

## 180 Fandamentals of CNC Technelogy (3)

Lecrave I hern Lhbonver 5 humb
 mumemended
Aupuains the beginning malent in numberial contuol with the fumbunental conopers underlying his new sience, Sudien the formar and
 yuems. Provides pactical expetienor in the set up and eqention of sumierial osoursoled madine tooke engloying poins-to-point, cominumu puht und citular iatespolutian naxhinieg onemd.

242 Introduction to CAD/CAM - Numerical Control (3)
Lenchere 3 houn
 trib of $\mathrm{C}^{-1}$ er Detam
lamolucen fundamental everoper of computre-aided doige and
 ia architecturs, dafting, egeinerrigg or numerical control progon mive

244 CNC Programming and Machine Operation - Lathe (3) Lenuie 1 has: Lilevitary 5 town
 Initumial Tewhatigy 230 er cieverni cminlimest
Continoar the suaty of N/C purt pmpran preparuian brgen in Indumial Technolog 140 and Anedopm the tedimiquan of planing for efficient operation unpurscing Compans N/C, CNC and DNC, incluting mamination of thee techniquen in riation $m$ CADMCAM. limmoun compuer- anhusd N/C purt programming language, enphuiex writing and running CNC Lathe proprom.

## 268 CNC Programming and Machine Operation - Mill (3)

 Levore I hour lebenteg 5 hum
Acqualins the advanod sudest with three min CNC, applications trolling manufaturing plamaing, tooling dovipn and/or ppecifeatina. CNC mill progame employing fill 3 axia pocitioning and implrnestation of proprama sing CNC mill equipmeat in the CAM lab Snodene will loun and pracike mion-canpuer ambeed purt programming of CNC mill.

484 Projects Latoratory-CNC Lathe Programming (3)
Invinv I huar: Lalinutary 5 han
 C- ar berime
 computer numerical conted progran far a CNC lathe Part proprama and CNC programening praciker sot ponible in Induarial Techrolegy 244 will be coversel. Emphaidi is placed on developing a project b be
 planaing, independent stuly and serelopment.

## 48 Projects Laboratory-CNC Mill Programming (3) <br> Leviner I hour Laloniting 5 hemb.

 ${ }^{\circ} \mathrm{C}^{+}$er herime
Deriope akilh in che irchnique of docign, planing, and esncuioe of computer aumerical control proprami for A Ex mill. Pur progame and CNC programming practices nor ponible in Indatrial Technology 268 will be coverel. Penphasir in placed on developing a project so be programend and machiped unieg a cnc mill, requiring en menta job plansing, independent suady and developmene.

## 185 Directed Study - Numerical Control (1) RPT 2

285 Directed Study - Mumerical Control (z)
305 Directed Study - Numerical Centrol (3)
Cosghware 1 tear fer anit
Allows smuless no punue Dinected Sestry in Namerial Conersl an a contract have under the diniction of a apervising inutructue

## Cooperative Efucation - Work Experionice

See lating under ladatrial Toctaolong - General.

## Industrial Technology - Welding

Note: Credit for technical courses may or may not be transfernble in other than major or rulated fields.
161 General Welding 1 (3)
Leriver I howr Lehosong 5 hann.
Gives the bopinning mulent a wlid fixumletion in the primiplon of widing and ouring, and elecric an welding Emphnine nfey along with relaned infinmatian on equiquxes, methodr ind maserida.

## 251 General Arc Welding 1 (3)

Leriar $t$ hear Ludoningy 5 ham

Provile the audent with the luvik principlos add sills necuuary to perfiam general anc velling eperationer nocosof ally:

262 General Arc Welfing II (3)
Levarr I hour Lehewieg 5 hann.

Continuen the mask begun in Cenersl $A s$ - Widling I. Reviren and earnds informaion all skill training orgenting ofloty, blieprimb, maseriak, mechich, and nquipinese.

## 351 Inert Gas Arc Welting I (3)

Letare I hown Lelorning 5 han


 (GTAW) and Gas Meal An Widding (GMNW) on femmu an notfermas metal. Emphaiar GIAWI

## 362 Inert Gas Arc Welding II (3)

Latary I heur lalaning 5 hure

Conteses the wid fouslation io the peinciplos and alill necenavy io perform weldments microsfilly uing Cian Thepten Anc Weding (GTNW) and Gas Menal Are Wheling (GMAW), on ferver and nonfentore meall. Emplanies GTAW.

451 Advanced Arc Welding 1(3)
Levare 1 hars Leleruary 5 ham
Prerequiriten Complinies of Thehumid Tichnoligy 261, 262, 361, and 362 nitab puder of ${ }^{\prime} \mathrm{C}$ ar livien
Civa the uradew the depeh of ernining fir AWS-L. A. Giry Cenification in art melding of tructural meel. Provide melund snaly for a hroal undenuanding of che welling proccases as well as perinent codes. Acquaists the seodent with antomatic and vemi-amenark w-ling proceser.

## 462 Advanced Welding II (3)

Lenurr I howr, Labondery 5 hour.
 of $\mathrm{C}^{\prime}$ "er leatrs
Povides in degh training toe peopare foe AWS. TA City Cemificaion in atc welling of urnoweral nerl Related undy for a brual undersanding of the welding procewes and perinent codes. Aprias autumatic and wemimutanatk welfing peocenc.

## Cooporative Education - Work Experience

See linting veider lidussial Tochnology - General.

## Industrial Technology - Woodworking

## 120 Basic Woodworking (4) CSU

Lennir 3 hars lelowitry 3 hian
Coven the care and ane of hand soole rad machioen as well as fastesen. adhesive and theik cabiner awembls Aho includes plamning and stock billing. Firphaikes safity

## 220 Machine Woodworking (4) CSU RPT 1

Ierner 3 hanc hlonieng 3 hewn.
Dealh with alranced wood technolkg, planaing and practicr in bse peotucien of cabisetry and cosmm Gaminure making

320 Cabinetmaking and Millwork Technology (4) CSU
Incuer 2 hewni Llenwn 4 houn
Prongminiter feduarial Ifinhaligy 220
Sonsties mfe use of tosh, machines and materials releed to cabinermaking Induia lecture, discuminn, demoermioloti, evalarion and soselent pefformance in the fillowing atra manufoctumd matriak, fatesen,
 compoectss, plastic laminates, and surfice pereparaino. Intruction omen occupwions, desige planning and conserscrion sechnipues.

322 Painting and Finishing (2) CSU
Lenwer I hary Lhowang 3 heon.
Seutier common wood finither and rechtrique of applicatiun, whih pusxical eporience in uxining filling, wealing, shelacking, varniahing locquering and moshetic mesim. Includes some sefiniahing information.

## 420 Furniture Repair and Refinish (2) CSU

Inctave I heurs Lalenewen 3 hears

A empurtemine maly of the echiniqua in effinitling ueed and antique fumsinure along with rie procrical sillh in repairing scruches, dewns. bern, veser and semcuanal dumpre.

## Italian

## 1 Elementary Italian I (5) UC:CSU (CAN ITAL. 2)

Invare 5 hem
Enammendad Etivitilin for Evelah 28

 8. $4.5,=6$

Normally affirnd io ite Fill mematr mis
Serenea the fundamenals of promanciation and the ability to undentand. upeak and write simple loalian. Indoler haik urnotural appecs and ineorporter thati fare on the culture, cantome and googriphy of fuly and an inmoducion so Iolian noegs and primerbe. Cenesponda to the fint year of hiph ichool tallian.

## 2 Elementary Italian II (5) UCCSU (CAN ITAL 4)

Lanirr 5 foun.






Alrmaliy effered in the Spring wemoter eaby
Consinues to stres the fuedamental altition to undencand, speak, mad and wrike simple loalian. Conrinues to include bak utriactuen apectas and aponds provial cenerretional wosbulary and comperency in wing he. Consinua to incorporate informatios on the colture and catomen of froly, ind an introduction to Italinn noop and provebs. Cerreopoods to the necond year of high uchool lintian.

## 3 Intermediate tialian 1 (5) UC:CSU (CAN ITAL B)

Inciere 5 hown
 ${ }^{\circ} \mathrm{C}$ "er fower

 surier peration.

Revien the dementary stractare tradied in Ialian 1 and 2 and enariness the gramuar necenary for commuaikarioe and for comprehension of both spoken and wriften Iealian. Promssen fluescy in lealian by immening the unalent in procical slinutions which requier enenive ue of the languge and by builling an rocabulary and related akilb throuph then Cotitiesor ble enudy of lialian lifis, civilhation asd culnare and powides special antentios to sepessanative latian litenatare.

## 4 Intermediate Italian II (5) UC:CSU (CAN ITAL 10)

Lemere 5 lown.
 ${ }^{\circ} \mathrm{C}$ " $=$ lenter
 sarine quotern.
Nomely afford in ahe Sprigg onenatr ach
Pypands the atrucraral cuncepts matiod in Iralian 1,2 and 3. Develops aldirional vocabulary and redsed akilh for maxinuen compeekension and exprenion. Proviler graser depeh in Iealisn lierntare with wider nange of mading, Emphativer diccumsion and analyvir of elie material. Continuen the mety of halime life, culture and civitureion.

## 5 Advanced Italian I (5) UC:CSU

Intier 5 houn:
Armpmintin Hellart $f$ mith a grast of 'C' er herame
 mather ivelien.
Nemaly foflowl in the Sprieg inenter anty
Inteoduce same of the infeotant movements in Italian liternure. It induder maling prose and poevy from repteventative lalian authoo and coutiones de sumly of atvoned comporieven end promas

## 6 Advanced Italian II (5) UC:CSU


 nemise pentem.
Normaly affirnd in ite Syring imester anhy
Lenart 5 Fwor
Concerns woda of Ialian literanare edected by mudens and inutructor co the bavis of relevance, ieverest asd histarical inpact. Emphais is on individual muly and mearch shard in the form of upors boit oal and wrinen. This serves as a hali for the snsty of aternced compruides. gramma and ayle.

## - Conversational Italian (2) CSU RPT 3

Lecturn 2 heurn
 Provides ipportunities for pescical oenvenution on entrjdy vepics, current events, and cultural matetial, and foe expansiun af vocobilary moconting to mulent internt.

## 155 Directed Study - Italian (1) fUC.CSU RPT 2

255 Directed Study - Italian (2) tUC:CSU
385 Directed Stedy - Italian (3) TUC:CSU
Confonnar I heve per anat
Alows anadents to parnur Directed Sculy is Iulian oe a contracy hans under ile direccion of a mpervibing instructot.

## International Business

## 1 Introduction to International Trade (3) CSU

This course give a comperehestive overvice of insernatinal bainess including baic trade theory, international minkering exportimpor finuncing the foneign curnency markra, dhe operation and nuaterncest of multinational firms, and the culuant epeew of pheal ershe If emphasizes the pracrical application of banic international ente epike.

## 5 International Marketing I (3)

This coune promena the challenges of markering in uhe photal matirplace and the mort effective approacher so these chullengos. It explots the top potential capom and the moat promining markess through the ane of current market data and actual cas andla of intemasimal markering compunies.

## 18 Basics of Exporting (1)

This coune is doipped to proride the atudent wibl the lanic informatios meelod for an undentinding of the caport proces. The owuns review the most infortant U.S. Governenent import IVgulation and grea ibe unolent familiarity with import documentucion and urrminidogy-

19 Basics of Importing (1)
This cosine is deigned to give the analeat a velid indentunding of the impert procen, including import documentaioa, and U.S. Gowinment clanomp segulatione. The cosonse guide she inilent dirnugh the procees of ceraing a buic import buinem plan

## 20 International Finance (2)

This counse peovides a penpective of finance theories as they apply to imernations transactions. If coress the mechode of intrmationd poyment, colloctions, finascial rialo, and tar cosiderarions. The cuune coven the foreign echange marken, the haico of wovking capial maugenent and coplait butgeting for forcige projects.

## 21 The Gilohal Business Environment (3)

A nurvy of the effecos on intermational builoen by the oulural, politial, gegraptial, and madnological foncen of the global eavimament. In alditios, the coune poovilet nany peacioal guideliae to help thote who are interesed in establaking moccesial boainess relarionatips anywhere in
dhe werld.

## 22 International Management (3)

Thin couse caminas the manaprornt functions in a global conerr土. It decrher the emironment is wilich inmemational magyra operate, the moke of culnute and in offica on managrial hinues, and the challenger of comonuaicating ffforively and xtiering orgenitational abjecthes is as increatitsily maliciculural envinement.

## Japanese

## 1 Elementary Japanese 1 (5) UC.CSU (CAN JAPN 2) <br> Lenver 5 boum.




Serese the fundamentatr of aunal comprethomion and protunciaion. buic nocabolargs uefill phruace and the ablliry to speak, rad and wrise simple Jopunee includer baric facti on cumoma, culture and geogrophy.

2 Elementary Japanese ill (5) UCCSU (CAN JAPN 4) Enturer 5 hum
Arrequatilue lopever $I$ nith a gmid of ${ }^{\circ} \mathrm{C}$ - or demee Recommended Dyillity for Evetibl 28.

 fepesne 3 ar 1.
Cominues the nudy of fundamentale of a and comperhemios, havic molulary and the abliny to apeak, read and writr simple Jopanese. Induder crientarion to cunomb, culturt sal geography

## 3 Intermediate Japanese I (5) UC:CSU

Lenwer 5 hewn.
Arempuinite /ppeove 2
Armaly yfond is abr Fall armuirr anh
Costinue the ntudy of grammar and vocabulary building for onaverarional fluency and writhen compositioo. Begina the atudy of shont numatiot writing.

## 4 Intermediate Japanese II (5) UCCSU

Lniver 5 hewn.
Prexprulition /panses is
Norvini yfime in ate Fiull semerier anh
Cortimus the uredy of gammar and vooklelary ballling for cooverational Abency and weriten comportion. Contianar the rtudy of shan nurneike writiggs, lnduder the stidy of Jepunese culerte.

8 Elementary Comversational Japanese (2) CSU RITT 3
Lewarr 2 hrun.
Averequibilen lapener $I$ mith a gude of "C' er herume
Trivile opportuniry for otal communiontion in everyley venting about cuncent events, geneal cultual materials and individial personal intereas.

## 27 Cultural Awaraness Through Advanced Conversation (3) UC:CSU

Lenore 3 heme.
Pervapuisitur/ Lapever 3.
Developn oral ficility and cultural awarness, emphasizing p pealing and understanding lapance in everydery situations common to life in Japan. Good grap of grammar is a perequiline. Prepares sudent to work in Japanese company or melased busines, or to line in Jupan.

## 185 Directed Study - Japanese (1) TUC:CSU RPT 3

Confinwry I hear Af axit
Allom trodents so purue Diteciel Snaly in Jopuese co a caumact basis under the directive of a mperviting inarructue

## Journalism

100 Social Values in Mass Commumication (3) UC:CSU [CAN JOUR 4)
telian I Auas.
A genetal linterest narrey and enaluetion of the mane nedia in economic; Natorical, polisical, peycholoyical and wocial treme. Focis is to help the media consumer lerter ambereand vedoy's mass cammunications:

 reponsihilities of medla is todar's sociery

101 Collecting and Writing Nows (3) CSU (CAN JOUR 2)
Intion 3 houn:
 mijus.
Sereses inatuction and praction in sews guthering wich purticular emphais ee documentarion, resesch and news writing. Adherence to profewional uriting styles kpel and ellial apecus of the peofersion is included. Kequired of all journalium majos.

## 108 Article Writing (3) CSU

Lether J han.
Offer imarration in de wtining of marerial foc a magraine, indlaling aroides, ectianiak, and review suitable for publicaniont incluben practicr in elining and the ise of haursive matrible.

## 202 Advanced Newswriting (3) CSU

Lentur 3 hawn:
 Renememendedr Conconest mondinemt is jownalius 217 for farsation mains
Thuvibes the aruatens with prisciple and porcice to writing, ppeciatised typer of nempaper seotier and increner muurry of fundamenal seporing
 writing arr inchuted. Mepined of all purnalimu mugit.

215 Copyreading and Headline Writing (3) CSU
Lniar 2 have Lahenenery 3 hown

 miven.
Offin maly and priactice in asolpin of atructure ind effectivenisi of writien mancrials, meriuing, comecrion of emors, proofroaling healline writing new and plocrue evaluation, and page deign. Opportuniry is peovidoil to work with the suaf on the campus newopper. Requined of all parnaliem majors.

## 217 Publication Laboratory (2) CSU RPT 3

Lefonsary 6 houn
 condimint in founnalion 202 er 215 or Mangouply 21.
Sneses cousenstive citidins of sudens in whiting wele and wen evaluation. PWication production plans ase developed. The lastrucrion in diected try eevopaper stvier, elturt and ntaff memhers.

## 218 Practical Editing (3) CSU RPT 3

Lewarr I harc apprwied astinity 6 hown

 famaline mejim
Truvides practial instraction and practice in wriking and oliting the canupus newapapex. Edinioes are enhaweal in negularty schetuled data merting:

## 219 Techniques for Stafl Editers (1) CSU RPT 2

tahustiry 3 hour:
 tumbinest is furnalion 200 er 218 er Pholigniphy 21.
Offers inatuaction fur cumpus acmpuper editon in elitorial writing and
 pollicy.

230 Magazine Editing (3) CSU RPT 3
 molthent in farnation 209 - 218 tr thuegoply 21.
Lnawr 2 howrs hlinungy 3 hane.
theenss the theory and pestice of witring and editing a mapaine. Antivik decign, penciples of hamoary and unity, and crestiviry in layuet
 phorographes and otber ilouxations and doign materials, proparing them for proluctios amuying pedocrinn shelules and ether appess of pohtahing are incloded.

## 221 News Photography (4) CSU RPT 3

Lnawr 2 hanct Letatary 6 hourn.
Sime as Mobgnyly 2L. Crdir net given for lewt rewnes

Giva poctiat aperimes in the tuling anit porcesing of news and frarure pikturow, eniplusizing the use of carnerat nurmilly emploged in
 prime pictures for the calloge newopuper and magrine.

## 185 Directed Study - Journalism (1) CSU RPT 2

## 205 Directed Study - Journalism (2) CSU

305 Directed Study - Journalism (3) CSU
Cosplivesa I hewr for anith.
Allom atulens to prisue Dírecied Seuly in Journalian on a cuneract
batis under the divection of a wipervieing inatructas,

## 911 Cooperative Elucation - Journalism (1) CSU RPT 3

921 Cooperative Education - Journalism (2) CSU RPT 3
931 Cooparntivn Education - Journnlism (3) CSU RPT 3
941 Cooperative Edocation - Journalisan (4) CSU RPT 3



Supervised urining is condected in the form of on-thejob unaining in an emplogment atra thar will enhunce the mudent's educational gals.

## Law

For additional law courses, see Business and Sociology.

## 3 Civil Rights and the law i3 UC:CSU

Enctier 3 hourn.
Offen compuraive snd ansprical anady of the lew and relaeed problenn conceming Civil Righo. Due procrss of liw fiecelom of apuction, feredome of erligion, ascial equaling, and semaccatic procenes ane the topior under comideracion, with emphais on recent courr decivinu and international weshe.

## Learning Skills

Note: Open Entry/Open Ext and Credit/No-Credit courses.
1 Reading (3) (NDA) HPT 3
Labinamg 9 Kan
 bative epealern. Programe ratiger from learaing to read to impuoving
 peoqrame mupplement learning

## 2 English Fundamentals (3) (NDA) RPT 3

Ledanatiog 9 harn
 fodivilualinel, neff-pucel woik an pubctuation, wentence urnocure and corteciness, 1 upplenented by computes anised lisatruction.

## 3 Vocahulary Devefopment (5) (NDA) RFT 3

Lechurr 5 heen
Insividualised, self paced trar and conpote-anived vocablary suidy for ESL. mudessa and native ipeaken. Programa ranging from buik wo collogeadvancel lerels ast trilored te malent neel.

4 The Mechanics of Spelling (1) (NDA) RPT 3 Labvenang 3 Kism
Individulivol, welf pucet muly of yelling rula, wand graup, noes froquently minpellol worlh. Frogramemed eenti, computre- anisted inutuaction mpplencent nulat

5 English As A Second Language: Fundamentals (1) (NDA) Labrutin 2 ham
Small group worlahope and numerial practice in lergity onal Eaglish menmumication. Fmphasis as woobraary building and simple grommar
 und wrifing

## 7 Basic Composition (3) (NDA)

Lubivenery 9 kian:
Small poup welahop ( $4-10$ people) in all typar of writing, foom joumal sa rescach paper. fist and nativespeaking sudeas participane in coercies, wricinge, peer reaponse, at well as wodk indwidualy at their own pace Tirsas, cumposur programs uplement werbabop setivitiet. Frpuraina for Enylah st-8i ar Eiglish 21

## 10 Mathematics Fundamentals (3) 3 MPT 3 (NDA) Laborung 5 hown.

Individualined, ueff poond instruction in mash from whole mamber operariont no alyohra and peomerns. Timorial and computreiaed mach programs provide revies reniedimion and/or practice.

## 1 Its Directed Study - Learning Skills (1) (NDA) RPT 2

Comborner I hear per unit
 be tailen fir embic
 hasis uasker the dimection of a nuperving imurnanas.

## Life Science

Life Science courses are listed under the headings of:
Anatomy Biology Miersblology
Oceanograply
Physiology

## Linguistics

1 Introduction to Language and Linguistics (3) UC:CSU Envery 3 han

This intsodactury couse in Limpristio werves the grat variery of wap humans commumicase bodh verbally and non- retbuly. Focuses of rhe structure, function, and hisrory of lappuaps, widh elverines os the socinogy and pyehology of languper, languyge loarning, sod the arigine and evolurion of largragt:

## Management

## 2 Organization and Mansgement Theory (3) CSU

Lnwer 3 hent:
Uher the case method to melfy pebleme in the ogenimation and management of boines. Finghanues conclevies of operatieg funcions, appraiting brainga conditions, wlos, procumamt, penonne, financul policien and factitio.

## 6 Public Rolations (3) CSU RPT 1

Lecrane 3 hears
Coven asestish for organiting and operating a public elations propram.
 holdes and ness media. Eialuanes comumumiarion techniques usel to impeore public marions sed cerne a fervalle public image.

## 13 Small Business Management I (3) CSU Lencrer 3 hem

Trounts a synematic approch to succeuful mull beaines opectation:
 loalenhin, financing locrion, tansion, meconst, employten, purchaies, adverting asler and coelis. Emphuines adepuste planning and perparation for mecter.

## 31 Human Relations for Employees (3) CSU <br> Inturr 3 howns

Covens the pracrial aryliction of peychological and nociological prisciples to she smaty of humun relation in bruinese and infuuery-
Emphatires cait muifen.

## 33 Personnel Management (3) CSU

Lernarr 3 hown.
Cotilien of a critical eramination of the princlples, methods, and peocelures velaed to the effective uitivition of human posoarces is organtations. Includes the masapoment of employment recruicing teicing, selecion and placement; ob collation; wayk and alary afminhitrationt hour matiosa and comnemicariot performance evaluarlom promocion and transfor accident pieventien; habor law and legintation: venefits and serviess diveipline, mosivation and morale.

## 48 Managument Systems and Procedures (1) CSU Lentore 3 houn

Inemdures the ueed for mangernent yatems and procedars and their entikiahment. Emphation the ellariombip of the systema function ma bulneis manserment. Civen case insifies for nytems anaylis und sulution, zecoeils, munagrment, desigs and control of foems and teports, procolors, manuals, mprodaction peocenca, Bectunic Dara Procesaing. and the principlas of Inteprand Data Rocraning and Operations Resarch.

## Ceoperative Education - Work Experience

Ser Busines - Cooperative Educarion.

## Marketing

## 1 Principles of Selling (3) CSU

Lenture 3 kwn.
This course eniphatises the principles used la pernuavie communication. Connomer buging behurios, procentations, and dowing are coverel. The cosine is deligned to lelp andense cursenty involved in wles as well a those seeking to imporne their commanicathe skill. Salo presenestions, vibeotsper and case stadies are unal.

## 3 Sales Management (3) CSU

Lection 3 ham
Copres the isle of the uler manager in the musgenent of wlapensons and ausciased astivities incloding whes force onganization; salopenon seloctien, triining, and supervision! saloperson compensation and
 sle cont andjvins and evaluarion of sileperone petfotmance.

## 11 Fundamentals of Advertising (3) CSU <br> Lexarr 3 hear:

The student is given a worling lnowlafer of advertiving's place in the American coonongy. The fundamenche of advertining media, adverthing
 proniorion, and public metations ant all cowered.

## 21 Principles of Marketing (3) CSU <br> tener 3 hean:

Thie couns introdaces mulens so varinus activitios in the field of markeiny tr prowides a hroad undentanding of the principles ievolvod in the diutrioution of cominodition from the producer wo the uner or coesures. It covew the comumer marke, consumeriem, packaing and besods, poiking, wholealing, recailing, weler promotios, pecsomal welling and intrrational marketing, Dencoutioni, cas atodio and viden cape ane ued.

## 31 Retail Merchandising (3) CSU

Lencren 3 hems.
Coven the mail operation in methl induding a muly of sture location, sepre lapour, sose orgnisatios, merchandise buring pricing, ninck plansing and retail sales promotion. Penonnel duties and rapounitititien are aloo andied inclaling the work of the departume marages, tome buyer, menchandise managrt, publicity directoc, soove nuperintendens, and the store comptrolies.

## Cooperative Education - Work Experience

See Buaines - Cooperative Bdycation.

## Mathematics

## MATHEMATICS PLACEMENT TEST:

All anudest who have not completed a collinge mathematia cosene naut ake an appeoperine Matheminia Piocemest Tet at the Pience Collige Amonment Crater (Campan Centr), Contact the Asvasinent Cemere at (818) 7196499 for an appointment and ample tont. Review is esencial becuas die tast cannot be abeo agian for tix mantho.
Phecensent ueter are given at four level: Alebra Realiness, Elemenrary Algebra, Internectivic Alpobra, and Procalculan. Upon osompleting the test, malents are atvied of thele roummended plocenent and given an anthorisatios to emrell is that coune. Soudenss seeking authoriarion to esmoll is a conne other than thas reowmended by the aweurnent ton mint obtrin entollment aurhocitation froen a Mathemurias Deparment advises, if dhey have weliffied the prevequilite.
Indicated presequietes for mathematia counct ate sat waired oe rhe bailic of any amenment test mosoc.

## Mashematias Laborstory for Feer Turocing

Opes to any mgularly enrollid unadeat in Fierce Colloge. Muhemuta Laboratury is locused ito Mahh $1413,9 \mathrm{sm}-2$ pins, Monday - Friday.

## 105 Althmetle for Cellege Students (3) (NDA)

Lexier 3 hewn:
Reviews the arithmecic enemial in culliges and buibens. Topios indude fractions, decimel, perent, and mecuemment. The couse emphaiten problem velving tednigues thar ane uneful in pexcrial simations.

110 Introduction to Alpebraic Concepts (5) (NDA) Incure 5 hown.
Diccumso abueract idese necenary m undenuading alpebra and reviews selocied topio of arithmetic nelivant to aletra. Intioduca fundemental notions of alyeha inclualing sigped numbers, simple equations, and modeling, Inclades hande-on laboratoriss and group work inatructine in suady akile.

## 112 Pre-Algebra (3) (NDA)

Lenturr 3 hown.
Review of selecsed topio in arithmeric, including operations on fractions, ratio and proportion, sounding and estimating poometric formala. larooluction to algerma, incloding operations on rigned numbers, eeder of operations and the disurihutine liw, timple equarions and modeling?

## 113 Introdection to Elementary Algelra I (3) (NDA)

Lentre 3 hours
 Marhernatias 113 and 114 toggher aee equinalest to Mathemarias 115 (see the couse description for Mathematos 115). Ciedit in allowed in enly one of Mathematica 115 or the $113 / 114$ combiention. Concurreat enrollment in Marhemation 113 and 114 is not permirmel.

## 114 Introduction to Elementary Algebra Il (3) (NDA) Levarr 3 hours <br> 

Mathematis 113 and 114 togetier art equivalent to Mathematia 115 (wee dhe conne dausipeion for Mathemaria 115). Credit by allowed in anly ose of Marhematia 115 ar the $113 / 114$ combinuion. Concurfent enellment in Marhemutios 113 and 114 ie not permined.

## 115 Elementary Algebra (5)

Enturr 5 hown


Inchudes eperrations with algetraic enyerioses, solurions of linear equations and inequalitio, notems of linear equarions, qualraic equations, nelarions and functions and their grophes. No crolit given for suidess who have completed Machernatia 116.

## 115 Algehra Reviow (3) CSU

Lerimer 3 hourn.

Reviens the akills of clensentary slgehes. This couse in primurily concerned with manipulaive sills, using topica in elemenary dyebra. No conlit given for stadenes who hawe neccived ondif for Mertemation 15.

## 119 Introduction to Mathematical Metheds (5) <br> Lntwer 5 hean

 aniffectery serr ear als Alpine Anediens Neormont ins
A techoology enlanced coune that peomota nodentusding of fustamental alpotraic coscepa io malistic erting. Devioppuent and critique of simple muhhematical modelh, induting liness, quatotik. eppoential, and rational funcrions. Fulfilh math competency for AA dignee, but does sot serve as peerequaiker to higher leed math counes.

120 Plane Geometry (5)
Lerruer 3 hown


Cover an istroduction to logic and the cosstrustion of a formal pruof, the ataly of plane figures suxh as wiangles, parallidoyans and offer
 offc: computations for area and velume.

125 Intermediate Algebra (5)
Entior 5 heen.

 Alplos Pharemest Tes.
Includes andy of polynomials and raviesal opmenions, including oponents and radicals molurion of equations and inequalties funations
 functions: Gaumian eliminations sequencest ad comples minlen.

135 Using the Computer for Mathematics (1)
Lencur 5 heve halonnang thewn
Marhemarias 135 in an introducrion to how the mudent can see the computer in mathermatior and science clance. The sudent will learn how
 will encoenter in mathematioc dames, moh as emplifying anf molualing egpersions, viving equations, gaphing, Prace the depurment in uing 3 defferent wofware packaps in dfferent usine, stalents may mpest this coonse as needed no lram a new packagr.)

145 Technical Mathematics 1 (3)
Mrmpuinities Mantrmatia 105 .

## Lenarr 3 humr

Provider an introduction os the prostical application of mathematics as nended in induers: Fractions, decimals, percentige, spare and nquare moos. comianes, solith, ete, ate neviewed. Emphasi is on the solution of uechnical problems beneficial to those engrged in an indurrial trake.

145 Technical Mathematics II $^{1}$ (3)
Inctarr 3 hawn.
 $\sigma^{\prime} C^{\prime}$ ar diver
Reviewa alphraic opecations. Introducrion and enuly of fundementale of
 problem:

## 215 Principles of Mathematics I (for Praspective Elementary School Teachers) (3) UC:CSU (CAN MATH 4 )

## Lnwore 3 hans


 Agotine Nairment The
Inclule problew salving, vet, fancriona, yyurme of mumervion and mumber conopos mhole namben, integern, rational and meal numben
 so computen. For utudens planning to teach in the elenientary ar fevior hint whool.

## 221 Statistics (4) UC:CSU (CAN STAT 2) Lenmery $f$ hani.


 decter Phocrows Thi
 ant cownt
Discuno avengro, varlabiting paphial nechniques, prolabiling hypochesis socing, sanpling otimation, cormlation, peodiaion, and linear neperiote. Emphant is on the collecrion and andpia of dana and how infertences ahout a poppletion ane made frmm a enple.

230 Mathematics for Lheral Arts Stufents (3) UC:CSU Lecherr 3 her

 Alybre Moxient That
Discaver findemenel conorpe from vilecied nopia in mahemueice.
foreve mathemation and orfor firilh. Not fier majosi is mathematia at the phpical xiences.

## 238 Calcules for Business and Social Science I (5) UCCSU

Inctare 5 ham.

 Alorisa Plourvent The
Roveminumind Mationerict 245
An introductiop to the inaly af calolun of ane veriblie, differmetiation and intrpration of alptoik ad aponemtid functions application of differeneal calculus to modeling and curve akesching, une of intrgal alculus nu denemibe arras betwees curves, technique of integration.
 compoesl interot and analitic.

239 Calcules for Business and Social Science il (5) UC:CSU Lentions 5 heurs
 A continuarion of Mahenueica 238. Topior af multinariable calcolua indualing canmua in two and more sariahles with and widhout Lagrang Multiplier technigaes mat multiple intrpation methodr ase procened as well as squaralke differentide qqations. Linear poteme and an introductine to marrix algobra ase ale presentel.

## 240 Trigonometry (3) CSU (CAN MATH \&)

Leviure 3 havs

 Alprint Pluirswert Thit.
Centers un a maty of the uir trignonmerik fuiscions, iechading a stuty of thrir gupha, imernes of the fanciver, solution of vianjle, models for priodic phenomens, Wlentivics, contiriond equarlees, and pols coordinutes.

## 245 College Algebra (3) **UC:CSU (CAN MATH 10)

 Lextary 3 hwork
 Alpinet Pherment That
Disauses mbationa, functions and their gaphe, matricos and detcrminats, theory of equasions, permuracions, cemblinations. prebahility and wonk wetrions.

260 Precalculus (5) **UC.CSU
Leramer 5 hwr

 A (irdins Pherment The
VC Confic Limith Mauinam $f$ uefin
Develop pouperier of the clcmentary funciona, incluling aponential, loparifime and erigenamernic funcriam. Graphing is triesed. Blenenu of analyric geonetry, indaling conios, and dicrete topics, nequenax and serler and inducrion, are developed.

## 261 Calculus 1 (5) *UC:CSU (CAN MATH 18)

Inctart 5 haurs

 IThushaher Maverent Tat
Begim a sequence of three cousies is calculas. Covenagr induder limits. conrisuiry, differntiation and wome intrgration of alepbraic and maskendenal functions. Applicrionses of the caloulas include relutel rates, maxima and minima of functions of one varialice, colcitution of amas, nolumes, atc lengh and goroth

262 Calculus 11 (5) *UC:CSU(CAN MATH 20)
Encore 5 hawn.


Continurs the andy of calculus began in Machematia 261 with atention given ni differentiatias and linegration of tsignosmerric, invase tripunomesrici, logerithmic and esponential functivas. Thelveiposs of inteqraion ar trestel $x=$ well $e$ funcrions eapresed in polsr and paranetric form. Infinitr scrice and expumien of fiunctions ints ervien and complese dhe coune.

## 253 Calculus ill (5) UC:CSU (CAN MATH 22)

Lenture 5 hari
 of 3 ur murr an dir high nhod Ahunnd Phernewr Cafowiw BC The Condudes the aruly of calculan leguin in Mathematica 261. The concepo of dee detivelve and the definier innegral ate entended to functions of
 In addition, the theory of limia, detivatives, and integnit ate estended to wector-valued fisations. Topics in wewser calculun such an wetor fidhs. line integralk, divergence and curk, Geern's, Seoke's, and the Divergence thevernus are trowed.

## 270 Lieear Algebra (3) UCCCSU (CAN MATH 26)

Lennere 3 /ian.
 Metvmation 263 in stevely momemondod
 determinanss, milurions of pytrems of equarioss, eigravecton and eigronslee:

275 Ordinary Differential Equations (3) UCCCSU(CAN MATH 24) Lniver 3 hmm.

Inclutea an intoduction to fint, second and higher oeder linear differential equarimes, operator methods, weries solutioss, the pamma function, Laplace mansfoem techuiques, Boundery value pooklems, and namerial meshods with an enplatis oe applicarions.

## 185 Directed Study - Mathematics (1) tUC:CSU RPT 2

## 255 Directed Study - Mathematics (2) tUC:CSU

## 385 Directed Study - Mathematics (3) tUC:CSU

Comfirner I hour fer nexit,
Allown sumbests to punuc Direntl Senily in Mathemutio on a contract
basis under the diverione of a superviting inatructor.
'UC Condit Limih Combling nith Marknotion 26t eed 262, mavimam 2 marm



## Media Arts

Media Arts courses are listed separately under the following headings:

Cinems
Journalism
Photography
Public Relations

## Meteorology

3 Introduction to Weather and Climate (3) UC:CSU Lenter 3 hann.
Sime al Gioguyly \& Comition gioen for hoch awne
Seulins the sarure and cause of merther phenoenens incloding vind, douks, rin lighrning, tornadoes and hurricanes, nolar eserggs. cempotione of the amomphen, cever of air pullution, werther mofification, the impact of wratber en the haman enviromenent, and inuodaxtion me climue.

4 Introductory Meteorology Laboratory (2) UC:CSU
Invere 1 hown Lelenang 2 hawn
 elatre casne.
Semen peacical me of metrocologial inutrumenta and their ebservation. Thicikal esenke in wirface observationes apper sir ohservationat weather cedes, and wraher map coturnaction and analyui.


## 1 IS5 Directed Study - Meteorology (1) tUC:CSU RPT 2

## 205 Directed Study - Meteorology (2) TUC:CSU

## 395 Directed Study - Meteorology (3) 1UC:CSU <br> Confireser I hor fer unit <br> Avrofulitien Cimporty?

Allows, unudenes te punue DSirctend Souly in Meteorology oe a contruar trois under the direction of a wopervising inerructic.

## Microbiology

1 Introductory Microbiology (5) ~UC CSU (CAN BIOL 14)
Levar 3 hewr Lheseng 6 hoan


Prosens fundemenals of micuibiolog: Indude himitivy nurey of

 virolog and immumblog. Laborstory sectriquer soses hunding
 oplowe mikrubes in ait, warer and food with purrikular emphait on

n0 General Microbiology (4) *UC.CSU
Lanirr 3 hourc Lelineng 3 hum

 'cer berime
Proenne Miombisilogy a an imerriparie diacipline ther deak vith miciobial ubiquing, mapbechy and ultuarracture, newoony, cultual
 ngiven for the idestiforion of undiown inicrooggeimm, control. intituine and killing of niccoboo theagh mepik cmafe, werlination
 rolo of public helch procedures io proeecing human nad anied populurions frum divase ant dhe tumed.

VC Ondir Limith Combiond Mionkiling I ad IA mecimun an mane

## Modern Languages

Modem Language courses are listed separately under the headings of: American Sign Language French
Italian
Japanese Spanish

## Music

Chrck with the Drpartment or Counseling Office for tranifrablity of cosenes so foar year inatiturions and for unin limirations of cournes acoepted by both Therenier of CalGorsia and CSIN. All Maic Majors art mouind to entilt in a perforning troup each semmert (Mink 501 , $521,531,541,561,563,721,741,7451$, Murigal perfurmanor chaver study differthr lineranue each senveters. Aleo enaical growth ir in no atnie completel it a single semestes. Fur these reatoms it in educatiopally sonud for a modent to mpeat a muincal perfurmancr cooinc.

## 101 Fundmentals of Muxic (3) UC:CSU

Leviser 3 henrs
Consins of a atufy of the rufliment of maical notation, icalon, Lrys. intervals, commoe murical terma, ear training and beginning tight inagine

## 111 Music Appreciation I (3) UC:CSU <br> Lnmant 3 hown.

Provides a surver of manic convidering the formul developnest of meaial Hean and their relarimuhtip no cultural life.

112 Musle Appreciation III (3) UC:CSU
Entire 3 own
Arerequitive Maic III.
Offon a coetinuation of Maik 111, urnving dhe forms and uples of muk.

## 121 Mesic History and Literature 1 (3) UC:CSU <br> Lenwer 3 hen.

 pertion
Offinal fall umnam:
Thas tive histury and developenent of munial though fiem Gergurian Chant io the dasw of Koenunticims wid Beerhoven. Enphasives astruive litrsing throuph recoling and cencern. Devipned primurily for mosik majoes and thow with coniblerble memial hecground.

## 122. Music Mistory and Literature II (3) UCCCSU <br> Lerrarr 3 haen,

 manive
Oflimis/ Sprivg umaten.
Sutiss spla and formes boginaing with the grat Romanric conopoen and conclusing with the minic of the procst day Desigued primariy for muic majoes and those with noene muical hackeroond.

## 152 Current Musical Events (1) CSU RPT 3

Lalonelary 2 heurn
Atundenir as local ionerme nywiond
Easiches the smakent's muical appriences theough apparsumitien os fienen to a wide variery of masik. Consits of denamerntions and lectuma ly


## 161 Introdaction to Electronic Music (3) CSU <br> Incorr 2 hown Lelonding 2 hown

This exploratory coune emplatbes the application of manial scremion we
 urilining voltrg cononiled and liphet wntheriors, M1D: application, and mconling sechntipues ane introlaced and developed.

## 181 Applied Musici(5) UC:CSU

Leminer I has:
Cemplifien Chentmer mombent is a hermung clant
(Mant 201, $202,208=22210$
Prepuration and perfirmunce of mavical velections. Lecruit and diccuasion
of varions apectis of public perfornuace.
182 Applied Music II (5) UCcESU
Lentur 1 hoan
Prrepminite Mest 182.
Continuation of Muic 181.

## 183 Applied Music IIII (5) UCCSU

tentare $t$ fives
Arenpuifrine Monl 182
Costinuarios of Muic 182.
184. Applied Music IV (5) UCCSS

Lentare I Amax
Aernpuifitur Monk 183:
Cominuanion of Muik 183.

## 200 Introduction to Music Theory (4) UC:CSU

Consless of a suidy of the nadiments of muaic nomaion, structure of musk, element of ringing, ear tnining and demenary piano. Poopares music majoes to qualify for Muik 201 and Muic 211.

## 201 Harmony 1 (3) UCCSU

Inwer 3 hass

 Nefininigg eurmile (Manir 501. 531. 721. 741 er 7451 it itnends mamesondod fior marik mogion.
Concena diatonic harmany which inclader a mudy of triads and theis Invenioni. Inerod coes nonchundat tones drouph harmoniration of simple given parsa. Inclader harmonic atalpin.

## 202 Harmeny II (3) UC:CSU

Lencery 3 lowe
Prrequititn Meis 201 end 211. Compviuitr Maur 501, 531, 721, 741. $\mathbf{y}$ 745.

Coeninues Music 201, inchating a suady of wexundary miabk, modulution. all forme of dominant harmongs and the sequence

## 203 Harmeny III (3) UCCCSU

Invere 3 han
Prengulthe Mavk 202 and 212.
Complaitr Manir 501, $531,721$. 741, er 765.

thorks, the Nerpolizan and augmeneed simth chonls and arher devomacic thamonies.

## 211 Musicianship I (2) UCCSU

Lnwer-hrfirmencr 3 hewn.

 omenow maival innes
Developpernt of light realing, dication and liphoand al:

## 212 Musicianship If (2) UC:CSU


Prexpuinlae Muir 211 with 4 proie of "C er livar
Centituation of Mukk 211.

## 213 Musicianahip III (2) UC:CSU



Continatine of Music 212.

## 214 Musicianship IV (2) UC:CSU

Encow-Infirmencr 3 hear

Centinuation of Manic 213.

## 221 Counterpoint I (3) UC:CSU

Lntwer 3 hean:

Coven two and three-part modal cownumpoint buied upon situecmeh centary polpphong:

## 22 Counterpoiat 11 (3) UCCCSU

Inturr 3 boant

Cowen two and threepart tranal conatrexpoint bued upon the polyphoty of the Raroque periol.
Offrmt in the Spring wementur.

## 223 20th Century Compositional Techniques (3) UCCSU Lenave 3 hewn. <br> Prerspulidier Manic 203.

Prowida an oppornanity for the pifed and cratine stadear me ciperiment with aew harmonic techniques of the 20hh centary: Include xa inerroduction to analytical techniquen and prisciplen of muxial cemporition.

## 25 Basic Conducting (2) UC:CSU RPT 2

Lnawn Mrfirmencr 3 hourn.
Nhen Siulesin mar be famidier neidh marina/ sicanion
Conthlen the baik problens in cundwating both choral and inetrunenol munisal cosembles. Explore varioser coobucting responialillies induding neheanal technique, best puterns, cueing and expective grumm.

## 223 Choral Conducting (2) CSU

Lectarn Anfirmanir 3 houn.

Comilen the proltem in the conducting of community singing and choral worka maitable for nchool and chuech choral groups.
Scudies the sechaipus of the batoe and the we of the leff hame for coprulve parpoces.

231 Orchestration and Arranging 1 (3) UC:CSU (CAN MUS 22) Inture 3 hens
Prorgeifiten Mant 202.
Gives ile undent an intralaction so the instruments of the oncheora and hund and hrie so scoet for them ie various combinations.

## 232 Orchestration and Arranging II (3) UC:CSU (CAN MUS 24)

 Inctary 3 hwur.Perenpulthe Mans $23 t$.
Cabtinuasion of Maic 231. Offens the teudent an oppornaniey to adsance the enctrieques larsed in Maric 231.

## 241 Music Notation and Copying I (1) CSU

Lertave I hase
Affonts prastion esperieser in the rechnipus of notating and copping manic

## 202 Muric Netation and Copying II (1) CSU

Lexave I hent

Cantinuation of Muic 241.
243 Music Notation and Copying III (1) CSU
Lexive 1 has
Contimanion of Muric 212.

## 244 Music Notation and Copying IV (1) CSU

tenner 1 hose
Continurion of Maic 243.

## 250 Music Performance Workshop (5) CSU RPT 3

Lenum/Ingormewe 3 hourn
Troparation and performance of masical selections. Lecture and divconion of varisur upects of pollik performance.

251 Jazz linprovisation Workshop (5) UC:CSU RPT 3
Lemerr freformawe 3 han.

Stulies sale and chanlal sencrues invelved in jazr irmpervisation.
trafuder pracioal applicadon in small group performaices.
261 Electronic Music Workshop (3) CSU RPT 2
Lecturr 2 hown: Labinnary 2 kown
 MIDI appobiction.
Tothiquas inuoduced in Malc 161 are incoppoated in odher production dill, which indude signal procouing, maring and DNX recorting as vell
 trighe (empling and ceme/wme), SMPTE time code eer.

299 Music Honors (1) tUCCSU RPT 3
Lelonitury 3 han

Wowides the gified student in mavic an oppornunicy for ouscentrated independent study in relested arat under ilve direct superviaion of an instruktoc. Presestrs a coune of andy thrugh a serie of pojeco drigoed to increse the stodenn' laowledpe of hiver speee of fime meit portinent to their individual interos and talente.

## 301 Keyboard Harmony 1 (1) UC:CSU <br> Lenkert 1 howe

Arrymiefine Mexir fot or nquinalen.
Emphania will be on wokk unigg both hande, on harmoniting amperpype mdodies and of tuing 3 -note chord in che right hund with single tuas noses in the left hand. The stalest will ales perform flotid mothíis wing single noess in the tight hand with 3-note chords in the left his.

## 302 Koybeard Harmeny II (1) UC:CSU

Levtiar I Aowr
 Thin coune is a continuurioe of mulest development of hopboud dills. Emphalis will be on left hand hamonic putrerss nuch ai Albeni hes "walte" lask, and rwo part (ouchle and bua) harmecirations. This foved is o inclule secandary weench chouds (and invervians), encondary domisans (and inveriona), as well as trasient and ral modelatary cacrime.

## 333 Keyboard Harmony III (1) UC:CSU

Levier 1 has

Thir coune is a cominuarion of suskent derelopment of keptound will. asing mave cumples piano idionss, harmonianions wo ioclale the sugmensed sixch choed fimily, the Nespolian simh, cheomatioinm, momof Ley movemens and nelarionahipe, ar well as vume eath 20 h Century trchaipues, such an panallelime, chords in foorthe polytonal parmper, etc.

## 21 Elementary Piano I (2) UC:CSU


Conshs of maic maling, incroducrion to nale plyings ure of piano pelaks, siphr mading, memorination, merninologs, and thenry at telated os the manic suadied

122 Elementary Piane II (2) UC.CSU
Intan-floformener 3 houm
 nuit buic dundel dirampuimest and inepert pinn nimiler of ihno fived

Continuarion of Minic 321.
323 Elementary Plane III (2) UC:CSU
Lenimen-ATfirmanor 3 hent



AVitulames Vheme 2 .
Contimuation of Manic 322.
32 Elementary Piane IV (2) UC:CSU
Lecnim-Ampornanere 3 hearn:

Contimuaties of Manic 328.

## 341 Intermediate Piano (2) UC:CSU RFT 3

Lenim-Apformawe I hion

## Avrequibilee Eiverster firem

Continuor the mudy of theotecial truxic, fundamenelk, est training asd
 asd harmonic anncruine of miaic, in an interprecive mannes. Emphaine syle and intapertation.

## 351 Piano Ensemble (1) UCSCSU RPT 3

Lelowiog 2 has.
Mrmpuifition Afonle 341 .
Phonidon the apportunity for ensemblt oxperience throuph the perfomance of fiverame for swo pianos, foor and tight hands. Particular emphanit son wyle, interpretarion and the development of tight mading.

## 411 Elementary Voice I (2) UCCCSU

Ienrim-logliumenar S han
 euscino, and slimple sonp. Emphaia on developing an undervanding of the singing voise, the body an a mutical interument, sad the vooal posennat of exh sualest, Sogeg meol implement and illumerre moal
yomith and denclopment.

## 412 Elementary Voice II (2) UC:CSU <br> Inrure Mrflimeacir I hean



 Centinuarion of Muik 411 .

## 413 Elementary Voice III (2) UC.CSU <br> 


Commas art wevt wole
Coasinuarion of Matic 412

## 414 Elementary Voice IV (2) UC:C5U

Lectary-loflimeser 3 hours
 Girmarm art ing if in
Continuation of Muic 413.

## 441 Song Repertoire (2) UC:CSU RFT 3

Lever I hour lahowing 2 hown.
Averpuitith thick fift
Offiro to the traditional moice sudent the oppornuniry to study and perform a vaind mperebit of moviale, art toop and operai.

501 College Cheir (5) UC:CSU RPT 3
Latuming 3 han
Groue all monorik.
The undy, peppituina, and performance of stashenl choral muik and popular selections. Auic ringing mechniquer and muik realing are

## 501 Philharmenic Choir (5) UC:CSU RPT 3

Lahnewary 3 hean,
 mpiend.

Enytuant ir placod on mujor chocal works.
501 Chamber Choralo (.5) UC:CSU RPT 3 Lalowian I haon:
Perngnítion Aultipe.
Cnncerme the inaty and perfounance of neacical literneure of mall thamber choral props from the simeenth centiry to the present.

571 Jazz Choir (5) CSU RPT 3
Intur itpfinnewr 4 haer:
Proverwitite Ansitim.
Offes pratical operience in singing jars, folk and rock maic in amall enumble. Rowiding stulin techniquen will be explomd.

## 601 Brass finstrument Instruction I (2) UC:CSU

Innur Atpirmesir 3 hewn.
Offer inutructios in trumpet, trombone, tuba and Fiench hora. Recomumpadel for sudens intreceed ia learning an inurrumene, inutramenval writing ur hos no sech inutrumental mutic.

602 Brass Instrument Instruction II (2) UC:CSU
Intarr Arformaner 3 hiver.
Cointinuation of Mavic 601.
603 Brass Instrument Instruction III (2) UC:CSU
Leriam /hfofinmener 3 hum
Cantinuation of Maic 602.

## 604 Brass Instrument Instruction IV (2) UCCSS

Lnmer- /heffermence I hwis.
Cantinustion of Markc 603.

## 611 String Instrument Instraction I (2) UCSSU

Lennef iopfirmawe 3 hum.
Ofen beginning and intermeflate iastrucrion in vinlith, viche, cello and lisn. Recoenmended for analents issersited in loaraing an immumest, inatnumental wriring how to teach innenumental music.

## 612 String Instrument Instruction 11 (2) UC:CSU

Lestum- hefinmawer 9 fown.
Centinuation of Maric 611.
613 String Instriment Instruction III (2) UC:CSU
Lecruw inginmater 3 heve.
Continuation of Munt 612
614 String Instrument instruction IV (2) UC:CSU
Lenver-lofamaser 3 hans.
Cratinumian of Moric 613.
621 Woodwind Instrument Instruction I (2) UC:CSU Lernieflefinmewe 3 hem.
Offen inturrion in flote thec, derinet and hamoon. Recommeded for tholents interated in learning an inatriment, imatrumental writing or how to seach sting and wind finurument playen.

622 Woodwind Iestrument Instruction II (2) UC.CSU

Cantinartion of Mulk 621.
623 Weodwind Instrument Instruction III (2) UC:CSU
Incurp-Amfirmewe 3 hion,
Canthiation of Mance 622.
624 Woodwind Iestrument Instruction IV (2) UC:CSU
Lecham-ithormace 3 hume.
Cominumation of Munke 623
650 Beginning Guitar (2) UC:CSU
Incture ilveformener 3 hown.
Ciscema beginning puitar thilh with emphasin oo loaming to moad make no the guitat up wo the Ififit poition for the left hand. Right hand whaigue will be finger, not plak ariested, and the coune in a porfect introduction to rither clanical, sommercial, or folk gritar playing.

## 651 Classical Guitar 1 (2) UC:CSU

Lewer Hoformaner 3 loun
Noten Fimiliarig with mair motutin and hait geitur andnipue io mpaimh hovide havic inutraction in Clusical Guitur playing at the beginning love. Indudes apprepriate ceercines in develop onchital ficility, matrrial


652 Classical Guitar II (z) UC:CSU
tenwer ilrfirmawe 3 ham.
Contimurion of Makk 65L.
653
us3 Classical Guitar III (2) UC:CSU
Enine firformancr 3 fosn
Cominuariun of Maic 652.

## 654 Classical Guitar IV (2) UCCSSU

Lenorr Arffirmaser I hawn
Continuatios of Mukic 653.
661 Commercial Guitar 1 (2) CSU
Lenare 1 hawe Lafuratery 2 hon.
 is maint
Deignod to pive the puiuris ceperience is plying melody.
wecoepuniments, and performing songs wioh simultaneous chorls und maboly. Syler covered inchule jan, jon finion, nock and hans wova. Tochniques incluse kcales and siche erading up to the fiff pouvinn in hegs up to three flan and theec shaps-

662 Commercial Guitar II (2) CSU
Intien I hour laforateg 2 kwn .

Abter Mvit pours ase inarumont.
Contiaution of Muxic 661.
60 Commercial Guitar ill (2) CSU
Lnwer I har: Lliviney 2 hens
Avrngwifitr Meir 062 er appropriesp pribur imurnains.
Notry Mier puirul mex ivurumene.
Concinuarion of Muxk 662.
664 Cemmercial Guitar IV (2) CSU
Lncwev 1 heur Lhoruang 2 hens.

Abur Mhet juusu wew inernmest.
Consinuatos of Muic 663.
75 Chamber Music (5) UC.CSU RPT 3
Laver. Ieffinmens 3 hown.
Prosibes experiescr is vpical chamber mumic asd chamber anchates combinations. Open to qualifial ituturnenalises, induling pianims, string and wind inatument ployen.

## 721 Orchestra (1) UCCSU RPT 3

Lenim-Nefinmeanor 4 hown:
Concons falling and derailed maly of the standend mpenvirn yymphonic manic. Ruvides capetienor is inserpereing music of varous tyles and petferming for variona collope fanctioni.

## 741 Band (1) UC:CSU RITT 3

Lanam Aholirmencr 4 hean.

Incloden the suly and performance of sumdani vorka for instrumesal ensentila-

## 745 Symphonic Band (5) UC:CSU RPT 3



 performance-rebied epericesea. Thovides opportunitia for selo performamoss, incion erhernalk, and large ensenale mbeanal and petformance.

## 755 Brass Ensemble (.5) UC:CSU RPT 3

Lntur- Arfirmewer 3 houn
Provile reheanal and perfimanor experience in a wide variety of bram limenank:

## T65 Percussion Ensemble (5) UC:CSU RPT 3

Lalinsting 5 hown.
Proviles ile madest whit de opporxuniry to leun the prindipla of pencuaion rnaenble licerature in the ymphonic and conmencial fidh. filks peffarmatice will be given.

## 71 Studio Jazz Band (.5) CSU RPT 3

Lencr- Alpformancr 4 hean.
Nbter Alliny to pley a juar inairswent nquired
Offers practial eperience playing in a large dancr basel Nho, roaling and rehraning of standad musical arrangenens will emphuise intonarion, ifythmic accuacki artivic aprenion, and impeovisation.

## 911 Cooperative Education - Music (1) CSU RPT 3

921 Cooperative Education - Music (2) CSU RPT 3
991 Cooperstive Education - Music (3) CSU RPT 3
91 Cooperative Education - Music (4) CSU RPT 3



Seqeervisel maining in conducted is the form of on the-pob triaining is an employnest area that will enhunce the mident' edocational goik.


# Natural Resources Management 

## Numerical Control

See listing under Industrial Technology - Numerical Control,

## Nursing

## See "Nursing Associate in Arts Degree" for General Education prerequinites, page 60.

[^7]401 Client Care Seminar I (1) CSU
Lerner 1 hose

An elecaivs, but suongly uecummendal inatroctor pated counc. Enplaniaes nuning procen and Gordon's Functional Healh Faneren en enhance planning of nuning car and performance of faning shille. Selocted putient carr apericoces and niming uills will be usel

## twe Preparation for Drag Therapy (1) C5U

 Lentur $t$ has
Introduar basic knowlelge and akill nryuind foe aft and effective dry therapy Inchder mathenatio uned in calcheins of drog douges Spedik
 Healch Pautens. Naning puocrus seve as a frumewoek in the opplicution of wintent to dient cars.

403 Medical-Surgical Nursing I (5) CSU
Lnower 2 hurs leburasing 9 hwe
Avmpulitin Noring to 402,407 , and toe for dritr nquinalede suib a grute of ${ }^{\circ} \mathrm{C}$ or betm
Imtudocs theory and concopts central no the praciice of medical murglal muning emphaniting thor-term acute healh poblemu and periopenaive are Encompaser popical peychosocial. culn and, developmentel, and logal apece. Contimues to copund knowlelge of functional healh purrems and the use of nuning proces. Clinial apectencr is focosed on mulliple primary cas anignmeas.

404 Maternity Nursing (4) CSU
Leverv 2 burs leleveng 6 hown
 equinelint or BRN mifnel
Seudies the uppoductive peocos and in effoct os helth and family life within the fnmewoek of the nursing procsus and Gordos': Funcrional Healdh Paturns. Cines the normal maremily gode common problems. and the neshom. Encompanes prychosacial, cultural, derdopmeneal, legal, and ethical arpecs of materniey cane. Whenen'! halhh case is divcumed, lachates dinical esperience.

405 Paychiatric Nursing (4) CSU
Lertare 2 hownc Lelinneiny 6 hene
 nywindiase or ADV mernal
Introduces the concepte of papchiaric nurning uriliring Geedoe't Functional Health Parerns and be naring pmoces. Prosenss curent theary and practike in the cart of the menally il. Mychowocha, physial.
 family. A variety of diniol experiencer are pourided in the acure pyctiarric retting.

406 Medical-Surgical Nursing II (5) CSU
Lexwer 2 hume Lhenetor 9 hans
 apmineloul.
Build upon peeviouly lamel cobceptr of medical turgiol muning Fephaniee the chmoically-ill adult uill groastic dient with coscurrent
 for anownent and implementution of the nuning procen. Clinial eperiences include multiple peinury carr anipmoksts and innodoce matuprecnt of clesta in inall goper in dhe acute cart werting

## 407 Borontic Mursing (3) CSU

Lnhere 1 huwn Labowary 6 hewn


Introduces the gemetic dient indoling phyplal, pyphologkal, wodht piritul, and intrlicocual upeca. Emphasines internelarelness of Goedon's Functional Healh Manerns asd nunieg proceas, pomeh and development, and healch problrna in the aging client. Ioclutes dininal esperimse.

## 408 Mental Healith Nursing (1) CSU

terrane I hose
Avenguiviton Anppanar inas ale Noning Phegrum.
Facilieto micsurest and promotion of nemal healh ponpecrives acrous the life span. Iarrobwes the conopes of vellies and holinic healht cive. thite focuing en communier mental holth, Emphivires murring proces and idenificatinn of behavions which mpreseat fiuncional and dyofuectional holth parterns as defined by Gaidon. Earmies numbiple factors influencing menal healh wach an forlogiol, nocioculouna, or piphhological crenponente.

## 414 Medical-Surgical Nursing (lli (5) CSU

Levianr 2 hourc laleroting 9 hour.
 eysinatined
Adranced thessies and cuncrpes of adule melical sorghal muning with emphais os moplon and wuer halih pmbileme. lechule phonial. peychosocial culrural, developenental, and legal apeca. Phovide in-depth dinkal aperience utiliting functional heald paturna and muring proxes. Srmase matrinent esperiesor focusing on the waff nume role.

## 415 Pediatric Nursing (4) CSU

Lemurr 2 howe Lalundey, 6 hewn
 aquintime or ARN miond.
Disauses conceper of Ndiutic Nuning withis the framewenk of Gorbon' i Functional Healdh Paterna ind the nuring proces. Emphals in placed upos heolth prodlems and the petiutric client in mipue racrion to hooptalinsion. Tapicr incluale gowih and developenent from infancy through adolecence and aloptation of naining techniguen for the pediurric diene/family. Induiles diakal esperience.

## t17 Client Care Seminar TV (t) CSU

Lniver 1 hene
 Argues
An dective. bat stronply momunended inmocror guidel cosune for
 numing thlly peacice es pmaile conichmest in alranced clinical application of marrinef proces and Gondoc's fienctional bealth parerns.

## 424 Client Care Seminar II (1)

Intive I hown
 Naning pmyoum.

 mhance plonning of suning cars. Piwide opporumitios fir diene traching in timelatef mele-playing experioke. Selected naring wilb pascike will be provided.

## 441 Histery, Trends, and lasues of Nursing (1) CSU

Lncurr I heve
 Monley Pheroum.
Eaminer curent and miovant muning biseo within die contast of hienorical deviepmots of erganined niening, Inclador legal tighn and mponeibilition and economic and eluartional ienues as thoy affect the emergence of the midern mine. Disouso the nume's mete an coumbuting tatmker of the diaciplist and the community:

## 42 Role Transition to RN (1) CSU

thower I hase

 madnat
Orienes the odvancrl phacmest muning unubst te thr Collepr and so the Nuning Ihagram. Distumes the mok and repponalilivies of the regirered minge lastrucrion focuses upon ibe application of mening procas, has componests, and the ue of Gondon': Functional Healh Harenss for messment. tachile devdepevest of cae plans for diens in a variey of suning

## 444 Client Care Seminar III (1) CSU

Intiver I hoar
 Narning Amgum.
 Acilirate corichment, tumeial anslys the utilization of independent learning, and naning shill pracike.

## 450 Clinical Nursing Preceptorship (3)

Lalundiary ${ }^{8}$ hown,
Arropwifite Complition of the neved er thind iemoiter of ile Ninning Ahgovere ar atr equinalos.
 dinical pofiemusce, and liscrace coefidencr in the work netring, An intestive clinical experience in which the acodent is pained with a staff muse in an mone cart fixiligy. Clinioal topios inchude management and camnuaikation.

## 463 Introduction to Nursing (5)

Lentier 5 hant
Designed for the pernuning mujor or mudent convidering Nuning as a camet: An introdiction to nursing and dhe Nuning Program at L.A. Pienze Colloge.

## 185 Directed Study - Nursing (1)

285 Directed Study - Nursing (2)
3e5 Directed Stady - Nursing (3)
Conformar $I$ heur per axil.
Alloss sudeses to purne Direcred Snaly in Nuning veder the disecrion of a muperviling inutracioc.

## 911 Cooperative Education - Nursing (1) CSU RPT 3

## 921 Cooperative Education - Nursing (2) CSU RPT 3

## 931 Cooporativn Education - Nursing (3) CSU RPT 3

## 941 Cooperative Education - Nursing (4) CSU RPT 3




Supervied training is coodocted in the forme of on-dhe-job truining in an employment amta that will enhance the mudent's educational gols.

## Oceanography

## 1 Introduction to Oceanegraply (3) UC:CSU <br> Lennere 3 hown.

Intuduce the stident so fire greeral field of oceanographys inchaling: mudy of ile feasures of dhe sea floes the chernical and phyvical properies of sa wates, currnas, tides, wxves and their effecs es marine onganimas. Special reference will be made to the Seurhern Californis eavimnment and problens of min and the one.

## 2 Introduction to Marine Biology (3) *UC:CSU

## Lerure 2 hwwns Lahowengy 3 hewrs

 muximiss the eppirmaities afforjed by ficld sraby The lecture. thboratory and ficd maty ate istrgpeed to ceamine the biology of marine plana and animale. Eimphais is placed en the internations among epocies which deternies their distriburioes and the orpanizatice of communitie.

10 Plysical Oceanegraphy Laboratory (2) UC:CSU
Pronguiaiten Onavgnyph I ar nowarreser rumallimet. Lexture I haur Lhowery 2 2ish. Offers an oppormuniyy no leana dills and rechiniquen of the acenographer chrough Laboranory: brech and doclaikle field work, and work cruives abound a eseanch vesel, Indedo the suily of auntical chars, instrumestution, and ocranogrplic procese wach as seclimentrion, effects of winilh, cuncoses, tidec, and determination of waner quality: Seodents ate nequiml to amend three firld tripu.

## 12 Lectares in Marine Blology (3) *UC:CSU <br> Encuire 3 hown

 ancarronity in Oindingesply 14 .
Intuduca studens to the biology of the marine cuvimansent. Included is I miney of murinic eqpalima cximiaing their structum/mophology feoligg labist, mpoofucrion, alaptations and eoologs: Special emphais it placed os the ecologplinsertelutionships of ogpanims in the marine ewviemment ioduding kelo foress, coral mefs, the doep res, rocky inseridal ane asd wellands communities. Mank inflivence on the merime cuvirunment ir aplored by suaty of fisherien managrment, pollivion iasues and discuuios of cyment events.

14 Marine Biology Laboratory (2) *UC.CSU

Introdaces reudent to the intortidal and acanhore marine cooumunitios of southern Califormia. The biologe of marine plaser and animals in
 malor Broup. A urong ficld emphasis imdudes field nuefies of the recky interidal mose, mursh and modflat motunds and andy beach
communitios, Snadens paricipate in cruiver on a rescirch vesel mpuiring "hand-as" parricipution in in appecs of ocrasographic umpling. Ocranigraplyy 12 mox be coeplenal previouly or tuken conourrendy.

105 Directed Study - Oceanograply (1) fUC.CSU RPT 2
285 Directed Study - Oceanography (2) tuC:CSU
335 Directed Study - Dceanography (3) tUC:CSU Complemar I howr fer asik.
Allows mudents to purnec Directed Srudy in Oceanography on a contrac besis under ile darection of a wupervining instructoc
*UC Condir Limin Oinanguply 212 and 14 amminad marimen 5 nvin.

## Office Administration

## 1 Typewriting/Keyboarding 1 (3)

## Lntare 2 kovic lahuang 3 hons

Dechope fundumental ppewriting talls an the compute. Pemint stolents ro achive a typing ypeef of ar leat $\$ 0$ grous worth a mitive for 5 minutes with ne moter than 5 ermen.

## Typewriting Koytioarding if (3) CSU

tenaur 2 heme labouany 1 heon
 Develipe reend and acxuracy in vping on the compruer ar well au mining in lener phacmens, munuscrpos, and ublations. Thmies sudenes to achieve a pping speed of at leat 45 mand a mimute for 5 mimuma with oo moee than 5 erroc, Snadesta should earoll in Office Adminiartation 9 if rhey do mat mees the mequitrusents for stmianion to Office Aminitration 2 . Couns noct oper to sudense wbo have credir for 4 sematers of ppesrining in any other school.

## 9 Typewriting/Koyboarding lmprovement (1) RPT 1 Lebvering 3 hewn:

 Improme pping trchailpuos, upeed, and sconracy thmugh timed writinge. coesective drilk, and prodocion peobleme. Sradents may eneoll for two sempeten, hor he sempien muy not be consecutive. This couse may be taken coocurnath with Offike Adminitration 2 If the sradeut moeds addrional speod and/or accuracy bolling

23 Legal Secretarial Procedures I (5)
tevaire 5 hown.


Teachen the opelling ad meanings of apprusimatcly 400 legal wouls. Offer eraining in ile proparation of pernonal injurg, poobatr, and dieolution caso. Taches office procolues in courr filing and reacher thill is tranacribing logal materidy using eratacrihing nachines.

24 Legal Secretarial Procedures il (5)
Lenture 5 henn

Ojfowl in the Spring emmiar andy
Offers tralining ie the perparstion of hadlond and tesant, corporation.
and criminal case. Simulater on the pob training with enyhtain on vorking under prosuse and on decinion mahing, Contimues to develop lopal rocalolary and speod in eraiscriking logal pleadinge.

## 31 Basiness English (3) <br> Inner 3 hans

Pervpulitie Shadnot mau be dipillif fir Einglith 21. Conownst

Deviops competescy in the findumentals and mechunicr of corroct Enylihh uage. incluling yommut, puncrualina, capialiation, number
 mechods of exprouios through neseence construction, parajpaph dovelopment, and fiscaional compoition.

32 Business Communicutlons (3) CSU
Lexturr 3 hans.

Complete commanikations thille eoane for practical bunines
oplications. Serme poblien-solving approsch is composition of butincss mensorand, letten, repoms, employment compunitistionis, and other documents. Abo peorida oppomuniry mo incrove speaking and

## 34 Business Vocabulary and Spolling (2) Lenurr 2 han

Provides mudena the oppoetunity to inptree their apelling dity and cerich thrir moabularg: Amphaviea the habir of uing the dicionarg-
39 Word Processing. Keybearding and Operations (3) RPT 2
Lervrr 2 hown Llowiang 3 /hans.
 und an DiM osmpuible micnarnepeset Studeno will lear beginning and atranard fanainos and apply their skills and koowlelge to a wide niricty of eimple and complo decometis, suah as leviex and
 documnas. Kinowledge of typewriting nod grod Engiat vills will be

## 58 Word Pracessing: Office Simulation (5) Intiore 5 hours.

## 

Inroduces sudents to Nowell setwork adminhtration with emphain on DOS, serwoek handware and wfiware, creation of secr logimp, and wee of nerwark wupervinory utiticic. Eyplase electronk mail, ompruter mouging, and document tranuler via compuser wihh er withour a modem. surves windoms and propram designel for that prophical intersice. Rresens guidrlines for microcompurer equipment sclection. Offered in Spring scmever anls:

64 OHice Administration Lahoratery (1) RPT 2
Lahorasery 2 hum


This liberamiry courie is derigned as minforee bhe lecturen peocented in all micnowes ater Office Adminitrnation dases. In gives needed practior to aphly fundanestal principlos to the perparation of various npper of docemenns umel it buineen and nonbuisen daves.

70 Human Rolations in the Office (3)
Entary 3 hem
Arrryminiter Oflic Admiximation 31 and 34.
Daifned ss help derciop an undentanding of eecir self; how one ncluns so othen in tens of familos social, braisest, or wark situathens and how one motivates, mantes, of supervise othen. Istroluces vuidens to aserion, protlemsolving, and deritioe-making techniques. Acpuaines analents with a variery if self help apencies and oumile mferencr matrriala
Offeral in the Spriog emerner only-
71 Universal Transcription (3) CSU
Lenure 2 howrs Leherestang 3 heurn

Ogend in the Fill imputer and
Developu the ability to uanacribe mulable buisen lenten. Enephains the following thille (1) rypewriting ee the computes, (2) producing copy fiom recoded dicurtios, (3) tpelling (4) uing conect grammar and punctuarion, (5) diffrentating berwetn asd ameng worl confiaions. (6) amanging copy (7) proof-reading and (1) hanalling auplia and equipmens. the asdiry to ope 35 worla a minute is necommendel.

75 Word Processlng: Equipment Oparation (2) CSU Lefrurr I hour hluintery 2 howin.
Doipued is mect the neth of beginning computet wudene of all majon IV prording the akills neceasiry wo operare a simple wand procruits propan on a permanal emprite Emphuis is pleed en unlentanding the lopic inkeret ie pefforming lanic wond processing operatioes in coder tin inpor, edie, asd piar elenentary documvas wach ar letern, memor, and upors.

## 75 Keyboarding for Data Processing (1) Labmany 2 Kown.

Declops fundancotel hylunding thilh necesary to inpur information ot the compuer terminal efficiesely and scrunarly. Designed tra weet the needs of dias puncening studense and other indridiualy interested in terloping competer heytoanting shille.

7 Microcompoter Accounting for the Electronic Office (3) Lenaw 3 hown
Give mubents a hacq, loais fir devoloping an undeneandiag of microcompner programer and applicarion in the decturnik office. Inchule acquainunce with *teuming termindopes *cioumeing procolures, caih handing poocifues, recond heoping, financial natmonth, merthandis inveatorgs and paymil Ineroduce modeus to accounting wifiwate and cnocope of microprocosor uagpe.

78 Milcrocomputer Accounting Applications for the Electronic Office (3) CSU
Lenurv I huar, Lloenteng 4 hrows

Aloy winh mudenm with the use of the miosoumputer for bookkerping and accoatring applisatinas in the electretic office Srudesth nective hash- un nyperince in kexping esconl, pacparing finaecial staemente. genctating financial managrmest eqpors, and etting up a similated inmpury ming at inal huines mikmonepoter mfiwate pabage.

77 Word Processing Applications (3)
Lnver 2 hean; Lelinotary 3 heurs
 Offind is ild Soring ammier anly
Uka a wool procesing program oo develop skill in preparing a variety of buines documesta. Covess fiemass for letiess, memocandims, sepors. talles, ourliocs, form documeste, paragraph likraries, and no-colmh uetupe. Emphatiue the development of proofiending and efleing thilh in the proparation of huines documens, Isuroduces doknop pollahing concepes uning a word pacening progren.
if Fiold Work (1) RPT 1
Lalurang 3 hwors.
 Ofowl in atr Spring umenter mbly
Trovider an eppontunity to ebeain specialined experience is derical legal, of word procesing envimenients throufh an internhip program. During this coopersive woik equerience program, radents art giver watied pexcrical appliartiones in their reapective fields and are ahle to coonlinus this eqperiesce with their clamroom inutruction.

82 Microcomputer Soltware Survey in the Office (3) CSU Leviarr 2 hears Lebenaing 3 hears.
Introfuces mident to the une of the mionocompuer and ammercially milable sofirware used in buiness offices. Couine peovides hasdron intuodicisen to IBM PCIMS DOS, Windown, wond pencening duabase. and apresitheer noftware Smdent puins baric knowlelge opecratry to internac with the campuses. No pervious cemputer opensing erpetience meyuired, whough ability to ype it recommended.
13. Mierecemputer Office Applications: Operating Syatems (1) Laburenery 2 hesen
An inemodacrion me microcomputen and micnocnmputer operating whtens. The oseme conen the mapor compoesus of a microcomputer yovem, the operating pytrm memmand arnacuir and terninotopy, and printer operabinat. It induden hasb-an use of 1BM PCIMS DCOS in various applications of noutine mictocompuser work fueciome.

34 Microcomputer Office Applications: Word Precessing (3) CSU RFT 2

Lenerr 2 keme leleneng 3 heor.
Pheputs mulens me become proficient in Woodltifect for Windons uing an IBM-ompatible micnicomputer: Sauleats will lara beginning and alvansed fanctions and apply their shill and knowledge to a wide variety of slmple and complex dxoments, mach as letirn and memorandurm, columiar cables, test tables, manascipts, and mailing list documenta. Koomlelfe of typesititing and gpod Eyplah skills will be beneficial.
© Microcomputer Office Applications: Spreadsheet (3) CSU Iecrart I howr Llurang f wewn.
Doigned to teach office spuculihect applicatioss wing she ITM comparible mikroweppeiet and a pprabheer program (Furel). Scadents lears to crume, edit, format, and peint workheres. Thry don lome to pepare graphe finat workshees, we fiunctioss, sort and fiter data haves. and create macras. Eneghanin is on office sconunting applications and implifying office acconting procolume.

55 Microcomputer Office Applications: Datahase (3) CSU Invere 1 houn lelventing 4 kuars
Dolignet to teah effice dua bue appllations uilng an IEM coupurible microcomputer and a data base program, ach an dilane IV or Aercos for Window, Cevers reconls delign, fif cration and maintmueot, daca maniplation, orport formusk and printiog Emphurios office appliations.

88 Microcomputer Office Applications: Desktop Publishing (3) RPT 2

Eowarr 2 hwer Latomang 3 heos

Provides inatructioe and hando-on maining in doksop publishing suing
 peogrum- Inchuter perparing ofvertivemenes, fien, beniean fiems. roports, nemleturs. and procesturions.

89 Microcomputer Oflice Applications: Disk Operating System (3) Lecturr I hear Llowivery fitan
 concoptit, and graphiral uier inverfaces. Studens lan fundamestal compuetr comsunded wrneas with an in deptherady of the Dik OFerating Symen (DOS) commands and graphical worr inevifices eving the Windows Operating Eaviounment.

## 52 Computer Windows Applications (2) CSU

Ievian I howr: Lalowangy 2 houn:
Resens a beid took at cimpuitr handware and wofware with an in depeb tendy of graphisal wer interfices using Wi=hws

105 Directed Studfy - Office Administration (1) RPT 2
255 Directed Study - Otfice Administration (2)

## 35 Directed Stedy - Office Administration (3) Cosforser I Avor for weil. <br> 

Allows anulens to porsue Dinectal Seudy in Office Alminiatration en a contract hasis under the diuscolion of a mperviligg inaturame.

211 Ceoperative Education - Office Administration (1) RPT 3
221 Cooperative Edecation - Office Administration (2) RPT 3
31 Cooperative Education - Office Administration (3) RPT 3
S1 Copperative Education - Office Administration (4) APT 3


 Supervied training is canducted in the form of en-the job eriving in an enployment wes har will mhance the modent' aticalionst puate

## Personal Development

## 1 Introduction to College (1) (NDA) RPT 1 <br> Inzure 1 hiar

Pemidos rtudets with imporumin infirmution abour dhe College and is emources. Anists the student in enlucatioed planning and axy jring skilh
 ocher nhill that are meceuary for cellegt mirrinat

## 4 Career Planning (1) CSU

Leniar I hown
Duigeed to give the vecationally andecidad sudes an melenuadigg of the canery planeing process. May inclale vocutional rems, wetious sif appraial techniques, and information regenting occuparional characterinics, tevis, enery and comer level Towhes eseet planning skill and allows the sudent to wok treved a carere chnike.

## 7 Seminar for Returniag Stedents (1) CSU

## Incturt 1 here

Opos io hatio mev and semers.
Derelops undentanding mpeding concerns, immas, and needr of women in the areas of enploymes, edoation, and changing demands of home, aseer sad wolent Empheme will te an wing these tintentunding to enhunce the acalemic and social prowth of the studeas. May be uffered for 10 werks - 2 hourn a werk
B. Career Planning and Development (2) CSU
Lncturr 2 hav.

Toches the pecces of caner planaing. The enphasis is an larning abour younelf and the woild of swrik and how to une this information in aser planning. Thin counce sho arjuaints the stuicens with endege services. penonael, curticult, and rualent acivition.

## 15 Persenal Development Seminar (3) (NDA) RPT 3 Examer 3 han:

Cimup undy of a selocand topic, de title and unis wo he ppecifiod in the schedele of dawe. No mives than 3 unin may be wikn in any mmotes.

## Ph10SODhy

## 1 Introduction to Philosoply (3) UC.CSU <br> Eecherr 3 hown.

This in a haic imrmalarion en some of the fundanenal inum of philowply and humanity ither include wopica such as bowledge and maling, bhe maniog of the mpernarual, the foundacios of truth and science, and the natuen of human cosesciousons/ele

## 2 Society and Valoes (3) UCCSU (CAN PHIL. 2) <br> Lection 3 hown.


Inesoduce ihe asdent te wome of ite traditional niblects and osenemporny inues in philoupply inctado wome of the approucha and terminology found is p Eiloweptal literanime.

6 Logic in Practice (3) UC:CSU (CAN PHIL 6) Latior 3 heves
Applies the logial principlen of mound chinalisg to monals, policico, asd evci)ty life. Enphanir ie placed upon the analysis of language as an aid mo niund rhinking

7 Indective Legic (3) UC.CSU
Lenver 3 hean.
Introducn the coscepes. enethat, and linitabons imonved io the potemutic mondurs if farrual inquiry in the scincer asd is codinary



## 9 Symbolic Lopic 1 (3) UC:CSU

## Letwers 3 ham

 ambolinaien, the hagial concrpe of iesirutial o monective and quancifirs. Itrnofoces the oonope of deduaje logic Uving warious
 formul ligic to anlivia of angineare nod determinution of valation

12 History of Greek Philosophy (3) UC:CSU (CAN PHIL 8) Lenher 3 houn

 Greece and Rume. Cowns the devcloperent of wotern pliliouply frum the pue Socratio through Theimus, with opecial emplusis on Hato asd Ariatode

14 History of Modern European Philosoply
(3) UCCSU (CAN PHIL 10)

Lention 3 han
Fivmerb collid "Thilongly 4. Hiang of Moders Thougbev
Thice westens philooopdry fium the ribe of modenn xcience to the 20ih ceaturgs with spocial emphasis oo Descante, Locks. Hame and Kani.

## 15 History of Contemporary Philosopty (3) UCCSU

 Levtane 3 hosm:Fermony sallinl *Thilnuphy $12^{*}$
Snodies recent philonophial development in Contiental and AngloAmerican philopophy wiht raling frum such figues as Niruache, Heidegers, Huserd. Detrids, Foocault, Gastamer, Ricoent, Habermas, Masell, Wirgenustin. Dewog. Quise, Rawh, Davidon asd Rongy

19 Contemporary Problems in Bioethics (3) UC.CSU Lenwer 3 hewn.
Introduces the sudene to some of the tralitional elhical theories atal ham they apply to conemporary Slomedical echical probleme. Among npecific bavee to be diacused are abortion, nurnogny, euthanais, infomoel eumem, perric engineering, nicide, organ donation, and allocatien of tarce msource. 45 C. E. U.'s will be millable upon mpact.

20 Ethies (3) UC:CSU (CAN PHIL 4)
Eatine 3 hown.
Couildes human conducs, ite rule and natual lan, die monal bania of imetinutions, melighos, and the moeal endex:

29 The Ehics of Biotechnotogy (t) UC:Csu
Lentart I has:
Cempuiriter Binlog 40
Thin course provides an istroduction to the ase of echical theotion to esamise the tilemenit anocianed with afrances in biseechnology and methols of nesolution of these dilemmas.

## 30 Asian Philosophy (3) UC:CSU

Levinur 3 heum
Farmely colldi "Atitumply 22, Philhpition of the OMiner"
Proents dhe basic coscrept of the philosophical puevere veipiantiog in the civtirations of Chins, Japin, and India Cosalden differences bevween Oriental and Ocridental entinder and creapps in relation to the impact of Whaters shouphe on cursent philosophy in the Orient.

35 Judaism, Clristianity, and Islam (3) UC:CSU
Lnier 3 ham
 Offern a asholerly sendy of erligion that explora basic sumcuues of meligious belid and practios. Famines the world views which influenced and shaped the gowth and deviopnacnt of the venem nelighou traditiont encourpera a decire to mindentand an a moant of overcoming rhe detroctive eschunges rhat freporntly accompuny meligioer discunina.

## 41 Introduction to Philosophy and Literature (3) UCCCSU

Lecrerr 3 hownt
 Seution the literary medium an it is emploged to expres and explore philoughical themer nuch af freedom, determinine, monal reppouitility.
 limeramure of a molatively ypecific millew, for example, terarieh centary elimenrialim. Cagnase concepps from lierary criticime, antheopology, socioligg. pepchology asd religine are utillaed for undentanding velected linerary woda although no backyound in any of these felds in required.

## 42 Philosophy and Cinema (3) UCCSU <br> Fermenly aulind "Rhilinephy a6"

Framiens malitienal philonophical probleme about the mening of life. truht, knowledge and belief, ralling, edf and sociery, meson and emotioes morality and jurice, freevill and detrminium, and the meaning and rolt of philonophical equestinning itadf chroogh selecred filma.

201 Lopie in Written Communication (3) UC:CSU
Lniser 3 hwar.

Criticilly coamines languge and argumencuivo in wrimen material firom
 exuph, and a research papee

## Photography

## 9 Introduction to Cameras and Composition (3) CSU





 momerndationt.
Leviur 3 hewn
Deigrod to provide haic informatios in the bac of cameras, lesoes, film and apooure to peoklace good photographa. Stide anignmenus are given foe analyis in claes.

10 Beginning Photography (3) *UC:CSU (CAN ART 18 )
Encherr 2 howr (uknadory 3 hour
Noter Sindint maty hapt a 35 mm oemme. Filly entmanic camperer nvahowe






 snst impuitert
Thesense theory and practice in hasic phosography wish emphases on the ue of a 35 mm camers, development of negatives and final prines.
Smideno should huve thai owa cancras.
11 Advanced Photography (4) CSU RPT 2
Lertarr 2 Aowny Labonatery 6 kown

 Phenopournaline mepjons.
Provide sheory and practice of contemporary ure of the camers training in poojection conterl liscludes apecial effecs procelures with an emphasin on cotarive thinking and iftes pryanalon and execution.

## 12 Advanced Photographic Techniques (4) CSU

Lnenarr 2 hannc Lulonueny 6 hwwn.


Offien a ataly uf alvanced photographic inchniquen, theors, chemicale und formalas seconary to the cieative phooographes. Includes special effern, wich a bas-odlef, veticulation, iolariarion, terture toreens, montape priating, ell.

## 16 Fundamental Commercial Photography (3)

Lnvive 2 hens: Lhbusiery 3 hewn.
 of er inwerves amalimest is Monngegsy 20 and 27.
Cowss the major phase of commercial and illatrative photography at they apply tis pulkatian phetography.

## 17 Introduction to Color Photography (3) CSU

Lntair 2 howry Lhonnag 3 howh


Soadias the theory of light and oolor and iss relarionahip to expouse and obior priating fope C. and tye Ry. Ahon, color negethe (C-4i) and urappareccy poocming (E.0). color priaring techniques and bavic quality contorol are modied and practicel.
2. Beginning Photojournalism (4) CSU

Lnian 2 lown lelvaling 6 hion.

 Thugiurnalime majon.
Cowns photopoumalium methohe, cowragr of newn, farums spons evens, and doxumentary photography.

21 News Photograploy (4) CSU RTT 3
Lenow 2 hany helowang 6 hoon
Seme al harnetium 221. Condir mer piens fir hech names


Glios proction capetience in the waling and procming of nesm and framer plowite, emphasining the eve of camerse somully emploged in photopournalium. Afforde uradena the opportunity to taks, develop, and priat pholat for the colloger nempaper and magrise.

7 History and Aesthetics of Photography (5) UC:CSU
Lennere 6 hown



Proides a chroeolepical docripcion of the majer developmenes of the phonegraphic medium. Relanes these developenens to society and to nense ie the ether vimul arts, and examines the meaning of phonography an a work of ans.
VC Cordit Limitt Marimum ahrre usin

## tIS Directed Study - Photography (1) CSU RPT 2

It5 Directed Study - Photography (2) CSU
3 Dirscted Study - Photography (3) CSU
Cimfinwer I har per witile.
Alowe mulens so pursue Direcred Srudy in Phorograply on a conenac hair under the dirsotion of a nuperviaing instructes.

In Cooperative Education - Phetography (1) CSU RPT 3
sic Cooperative Education - Photography (2) CSU RPT 3
301 Cooperative Edacation - Photography (3) CSU RPT 3
M1 Cooporative Education - Photegraply (4) CSU RPT 3


Superriset taining is conducoed in the form of on-the-job uniniog in an emphoynent iera that will echance the undentis edwational goale.

*VC Condit Limies Ser Art cevoner nilh **

## Physical Education





 corphar of ?



The activiey of Phpical Edacation requima apperitive pracke for the suadent so achieve the coune djective. For this resoos, it is edvarionally sound for a stodent to ropeat a Fopikal Education astivity counce. No activiry course may be thenen firt mone than four semesers.

Check with the Deparment er Counveling Office for manfenabiliny of coures to foul-reat ingrintices and for unit linitations of counce exerpued by boah Univeniry of Calfornia and CSUN.

90 Individual Physical Fitness Laboratory A and B (z) CSU BPT 3 Laluesing 4 hean.
Indivilualined proprum so derilop candiveacular end rasce, manalar endurince, sereph and flexibliey heouph aerobio, low inpuct acrobico,

 enduation and inficmatios on fitnes, body comporition amalyik, numition and wren managenent.

91 Theory and Applicatien of Aorohics and Conditioning (3) CSU Lecrant 2 howr Lilowetig 2 han.
Increaso mukeat warrenen reparding chapgos in phyiologg menting fiom acrohic earcine. Phorider the suidens with an oppoctuniry to parikipute in, and umbervand de compoertur of a vild cenditioning and nutritional prognam

96 Combined Activities (1) *UC:CSU RPT 3
Anivig 2 Kens.
Pinciplec, trehniquen, and proction of furdenenal mowemens uned in upors, hythnic activitien ar reing and line dencer, aquario, grumarico. and other condibining acrivitio at directed are iednded in ehic coune.
 maditional game (may inclade hulminton, pobille vennis, whle tenais, deck tenain, anchers, nunnigg body conditionigg and eobm an facilities permic)

## Water Activities (1) *UC:CSU RPT 3

Astinig. 2 harn
Beginning, intermediane, and advatoed leoch offered for all coemo lineal beiow earept 101. All level may not be tainht each wemeter

| 101 | Num-Svimmert |
| :--- | ---: |
| 102 | Suimming Shilh |
| 105 | Diving Sillh |
| 121 | Wuter Polo Stilly |

## Individual and Dual Activities (1) *UC:CSU RPT 3

Anving 2 hewn
Beginning, intermediate, and adwaced levels offend for att coaner lined below. All levels may nox be tuaght each vemeten

| 203 | Audminton Stills |
| :---: | :---: |
| 206 | Handual stith |
| 212 | Tennis Sullih |
| 222 | Reppoetual skith |
| 225 | Yogestall |
| 22 | Boly Coaditieaing |
| 229 | Body Dramia |
| 230 | Wioghe Trining Sillt |
| 238 | Self-Defeme STills |
| 247 | Gymnuatiar Still |
| 253 | Westling Soith |
| 256 | Fencing Still |
| 259 | Golf still |
| 277 | Sow Sling Sill |
| 289 | Bowling Skith |

## Team Sports (1) *UC:CSU BPT 3

## Alaning 2 hown

Beginning, intermetures, anit atrancod levels offered for all covanet liated below Ail leveb muy not be wight exch remesten

| 301 | Amerball Skills |
| :---: | :---: |
| 304 | Buaketail Skill |
| 310 | FlogTouch Footbal Skills |
| 313 | Soucer Skills |
| 322 | Vollieprall stills |
| 328 | Sothall Skills |

## Dance (1) UCCSU RPT 3

Altining 2 hem
teal 1:23-4 nffiend for alt coases lined belom, but all levele ming not be cuigher rach wemesten

| **401 | Inmerational Feak Dance |
| :---: | :---: |
| $=3$ 31 | Modern Dance |
| *7434 | Baller |
| **497 | Jara |
| ${ }^{*} 440$ | Social Dance |
| -446 | Tap Dance |

Intercollepiate Sperts - Men, Womer, and Coed. (2) UCCSU RFT 1, curpo an mind


| ${ }^{5} 903$ | Baselual (Mcn) |
| :---: | :---: |
| \% 904 | Bakerluall (Men/Whemen) |
| *5018 | Foothall (Men) |
| +512 | 5 frihall (Whemen) |
| *513 | Swieming (CoEit) |
| *514 | Tensis (Men) |
| *516 | Volleytall <br> (Men - Fall: Whmen - Spring) |
| 4517 | Whar Pola (CoEd) |
| 550 | Chen/Yell Lealer/Marching |
|  | Hand foo cuedit for UC] |
|  | 成 3 |

666 Body Conditioning (1) *UCCSU RPT 3
Lakesatiry 3 hems.
This course offer inatraction and participarige in theory and techniques of ambining incrravd overall fitnes cheough endurance and arength trialise utiluing molusion machines, circult training, par course, and munin!

630 Weight Training (1) *UC.CSU RPT 3
Lakinatery 1 hown
This courie offers inarruction and practice in theory and rechnipues of waifir trainings to goin muacle atrengh, flaihilits and exdurasce.

## 201 Advanced Lifesaving (2) UC:CSU

Levow I hown ectirity 2 houns.






 en she water and indodeo rraining to anist oe rescue a person in danper of drowning. Students satisfictorily completing this coune will mecive theit Advanced Liforving Canhs from the American Natianal Red Coms. Whitern anf pratial ocaminatiess ate given.

702 Water Safety Instruction (3) UC:CSU
Ienner 2 haun, plai 2 hrarn mlaind noimming.


This clais prans the Red Croes Whater Salety Inernictar Centificase to walk wh who succenfully complete the requirencuts.

801 Modern Dance I (3) UCCSU
Levnirr 2 hasic labatatury 4 hawn.
Simars the asalyos of mowement thouph the biomechanical principals. APrinninf molhiqut, alognment, Ahothm analyis, elenvesary elenvens of cempreirint, hinfeitcal intrviem

802 Medern Dance II (3) **UC:CSU
Lenwry I hoor lafuriting 5 ham

Maicaly the tame as Physial Educaien 801. Defien in the mulent's Ahliry to evecurr the clas work on a Bigher perfomance level. Hinstically explores dance a an apressive att.

800 Modern Dance III (3) **UC:CSU
Lniwer I han Lelowang 5 hean.

Ineermeliare eechniques and principles. Historically eyphares dance of the Renaicunce through 1850.

504 Modern Dance NV [3] **UC:CSU Lelure 1 have llhanting 5 ham.

Insermeliuer and adranced technigues. Hiatorically eplons dance of IBSO to perment.

812 Current Dance Events (1) CSU
Leniarr $t$ hewr Livennng 2 bown.

Enichas the medent's dance, movernent and reland art experiences throuph appormanivien to observe and paricipare in a wile variery of dance esperienars. Consises of demonstratione by faculty, mudents, and giet ampats. Offres peviess of curnent concern, ymposia, and workhope with oppormanities to amesd and critically analyes these centa. Emplusis will indule as iscreacel awaenes and a greater undentanding of the self and individual's reponie to his envimament.

## 814 Dance Production (2) **UC:CSU RPT 3

Lencur 1 hown aswing 2 heon.
Povide labontary experience in developiag he skills involved in dance productions choreographs, ver desiga, lighing, diexcing and costume delipe Weikiop of Plence Dence Theatr and Childmn't Dance Theatie.

## 818 Fundamental Rhythms (2) CSU RPT 3

Lncurr I hew lahoung 2 hown.
Deiforet primuilit for Phythat Educaton, Dinco, Recration, and Elementary Bducation mapon Rhydhm andplo and pefformance of the fundamenal mowements, filk, squase, weciu, and modern dance.

815 Choreograply (3) UC.CSU RTT 3
lectarm lab 6 huw

Offer esperimice and emrichmeet in the creative tools of choreopraply
820 Dance Production II (4) CSU
Lenturr 3 hoary Lalinning 3 haum
Trueiden laboranory esperience in increaing the sills involved ia dance
 ecc) Affurh oppornerity to perform with, and in aloo a wodahop foe the Fience College Dasce Thesure. Thit is a cnetinuation of Daser 814.

## 185 Directed Stady - Plysical Education (1) tUC.CSU RPT 2

## 285 Directed Study - Physical Education (2) fUC.CSU

395 Dirneted Study - Physical Education (3) UC.CSU

## Confromer I hose per weil.

Allimes nudens to pursue Ditected Struly in Phypical Education under ibe direction of a mpervining inatroctor.

## 911 Cooperative Education - Physical Education (1) CSU RPT 3

## s21 Cooperative Education - Physical Education (2) CSU RPT 3

## 231 Cooperative Education - Physical Education (3) CSU RPT 3

## 911 Cooperative Education - Physical Education (4) CSU RPT 3



Limitr to trenejer crulito Ser Coppexatine Eliwation Condir Gaide
Supervied misining is cosducted in the form of on-the job strining in at emplogment area that wilt enlusce the madent's ellucational grals.
 "UC Cmitir Limits Any ar all counso, maximam 12 wain.

## Physical Science

## 1 Physical Science I (3) *UC.CSU

Lnome 3 hown
Ondir nes gionen fur hach Phominal Scime I and Phmina 12.
5 unver the fieldr of popria and demintry srasing the hissorik development and appliariona to everidy life. Sedenta who are incerreud in rexching ate encourged to comil. A one unit thbornatry. Phyial Science 14, is wailble thir note ebliguogy.

## 4 Physical Science \& Laboratory (4) *UC:CSU

Lection 3 have Lhoweng 2 houn
Sme a Mhikal Siencr / and If cmentiond.

 inimered is trading are encounged to enmel. The laboratory component supplenens the intruction.

## 5 Introdection to Air Pollution (3) UC:CSU

Lenter 3 hown

Intradicer the unsemt to the wouras of air peclution and the rectuical poblerna of eveducing sir pollusion. The couse indude the phpica of de
 methole of pullution ciantrol.

14 Plysical Science Laboratory (1) *UC.CSU
Labinueng 2 han

Provides libutatory aperience mpplenenting the inernaction gives in Pipstal Sclence 1 .

1 te5 Directed Study - Plysical Science (1) tUC:CSU RPT 2
285 Directed Study - Physical Science (2) tUC:CSU
385 Directed Study - Plysical Seience (3) tuCCSU
Coyfirwer 1 hour fer anit
Alioss andena top purne Diescied Sruly in Mipioal Science on a conernac baia under the dirextion of a upperviling lammator.
 mair $f$ neim
 divmito sming ar rosix

# Physics 

All Physics, Engineering, and Astronomy majors should enroll in either Plysics 37 if qualified or Physics 6 their first semester at Pierce.
6 General Physics I (4) *UC.CSU (CAN PHYS 2) Lectare 3 hever Lhastiog 3 han

Comilen de funduremal pienciplo and aplicainen of mectuniar tean. fluidt, wowe mives and sound.

## 7 General Physics 1 I (4) *UCCSU (CAN PHYS 4)

Immer 3 hant Llivulog 3 hans

 phyia.

## 12 Physics Fundamentals (3) *UC.CSU

Letrin 3 hem.
Godit surg gion for BOTH Shpical Sivenir I ad Phpra 12
Sumper the field of plopica seraing the hitruic development and the appliation in modry s culvore Snofents who ere iestrused in maching are encoungod menroll A une unir liboatongs, Phyical Science 14. is malable but ie not oblignory.

## 37A.B. Physics for Engineers and Scientists I (5) <br> *UC:CSU (CAN PiYS SEA B)

A Lenier flowe A dime Ldianey 3 houn

 202 (cinvele in
 mechunlo, unviation, periodic metion, and flial mecturio as the boginiing cakulue led of mathemutiol sophinication. The ldocatcy indole bed quantiusie und qualireive caporinoess which permin


## 30A.8 Physics for Engineers and Scientists 11 (5)

 *UC:CSU (CAN Pirs SEA B)


Continues the unafy of photia leppun is Physics 37 involving lnimoductary thermodynamion and elecridicy and magnelism. The Luborasary induides both quantiative and qualative experimena which permie nulena to serify, thusrats, and dedice varionu lass of physica.

## 39A,B Plysics for Enyineers and Scientists ill (5) *UC:CSU (CAN PIYS SEO B) <br> 


Conchule the mult of plopia bogin in Phigio 37 end Phyia 38

 and condened matrer as well an parick plepios. The libouwory inchude both quaminatice end qualiustive eqperimener which pernet tundena to


## 911 Cooperative Education - Physics (1) CSU RPT 3

921 Cooperative Education - Physics (2) CSU RPT 3
331 Cooperative Education - Physics (3) CSU RPT 3
981 Cooporativo Education - Physics (4) CSU RPT 3
 by de Miguinv of ofe Coppsaner Fiavaniw Adiner

Sypervied usining tis conducted in the form of eo-the pob unining in as emplopmest imea tur eill enhance the mindent's elucrional pulk.


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## Physiology

1 Introduction to Muman Physiology (4) *UC:CSU (CAN BIOL 12)
Lerwer 3 hanc Lelonsiang 3 hum

Seudie the principle funcions of de humas boly: cisculunam
 senf sepenductive.
The following veqpenos (Phyalology 8 follownd hy Plysinlogy 9 ) in futly ripulvitent to the separate Anatowy I snd Physiology I counes.

8 Integrated Human Anatomy and Plyyiology I (4) *UC:CSU
Zenterer 3 hawn Lelonatiog 3 hams

Intuotuction no die utruczure and fuactine of the humun bodyr with emphusis oe she ogan and noteme level of nuidy. Anatumial and phpiningival tupica atr inter sequesez lahorinory ieclote quantiative menusementis of phyviologival and clinial relensick, and inchide the undy of humun caderen.

9 Integrated Human Anatomy and Physiology 11 (4) *UCCSU
Intirs 3 hurw Laluseting 3 hean

Insesduces wrucrure and funcoion of the human bolys with empluais an
 ate initgraned in this weomed srunse of a wo memeser wequence.

18 Environmental, Metabolic and Nutritional Plysiofogy \{3) CSU Lerwer 3 lown
 The Aovider Nomber if cof 32.

An alranced phywiology coune deignel for analens in a muning peopram The conse covers pwenik metalolime, etivimnmental thilenges so homeosati, nutriens mule in pbyiolozy and in clinioal dionden. Each mudest is expected to here current kiveviedpe in human phovininge:


## Political Science

## Also See Law 3

1 The Government of the United States (3) UC:CSU (CAN GOVT 2) Lamiry 3 henn.
 coastitutional haclgreand asd developencut, etracturs and erpanizariosa, lepal frimeourk, haic concepts and by puoblem. Abo puividex an undensanding of U.S. foerifa policys political parties and the electurnet. divil libertio and civil tiphss, and isues facing the Americas poople. A special mudy of Califonia use ami hoal pevesmese is a buic purt of thin crunce, proviling for a wong civic involvement in welf permment.

## 2 Modern World Governments (3) UC:CSU Levary 3 houn,

Sealies a selecied varicy of muin national suates to securr a cenparative pikture of politioal philotophies, coentitutions, political proceser and govennemal inatinuions. Enphatir il placed oe those factors Fogrphic, hintoric, demoprphte and coluund, which coombote an ciffermes io provenmestal experience:

## 7 Contemporary World Affairs (3) UCCCSU RPT 1

Lentare 3 hown:
Seustian modeco inemutionat nturmus and the forme atich confuas policy maken. Imphnier currox arrar of civii. Provide a bovic
 oomperitive political wnahl

## 14 Government and Politics in the Middle East (3) UC.CSU

 Incurr 3 hear. Eant iscluding the Maghok Seates. Tuikry, Itric, and land. Special considecation giveas to the importanor of flam, the polivics of nil. inem:
 and the ten of the willd.

## 30 The Political Process (3) UC:CSU <br> Lenwer 3 hown.

 with specific foxs on electiuns, campuipning, politiod behwioc, puilic opininn, polinkol paries, and istans groupe as the national and itave Iende in the Unined Gaten.

## 35 Special Studies in Political Science (3) UC:CSU Lnowe 3 hourn.

 caamises the chatlenges the Unined Scases has foced in the would tince 1945 and the policias it las adopeed sa ptonide for ins natiosal necuiny and secure is fostipe policy golk. The cuuse will nevirw whe manaer in shich the United Scaras deternines is foreign and defense policies and the intruments it emplept to shine its pols

## 185 Directed Study - Political Science (1) TUC:CSU RPT 2

295 Directed Study - Political Sclence (2) tUC:CSU
385 Directed Study - Political Science (3) tUC:CSU Confinary 1 heve per wnits.
Allows undeas to punsue Dinezen Sendy in Rolitical Sciesce on a ontrucr hanh under the diention of a nopervining inumumer

511 Ceoperative Filucation - Political Science (1) CSU RPT 3
471 Conperative Elucation - Political Seience (2) CSU RPT 3
321 Conperative Eulucation - Putitical Science (3) CSU RPT 3
591 Ceoperative Education - Political Science (4) CSU RPT 3
 by de Hecunver Hide Cmpeneine Bivemen Ahiver




## Psychology

1 General Puychology 1 (3) *UC.CSU (CAN PSY 2)

fetmer Ahers




2 Gentral Prychology 目 (3) UC:CSU (CAN PSY 10)

Enner 3 hawn
Nowe Mphithycual hudelsi
Purider am intuafuaimn te phyily gial puchilogy which cemiden the
 behurine. Monuidpgic peocmes, weiuchur and funcion of ferie ogens. and she effers of satural and intoducel Mood rahyened vibutinces ate



3 Personatity and Social Dovelopment (3) CSU terner 3 hann
Serle ene doelopg an undernumbing of penotaliry dymanicr and strucrove. theorier of penousliny devlopmont, vailoue belowor fiams, and die

 puthenis.

4 Appliod Prychology (3) CSU
Leflaw 3 hum

A stady af ide way in whish pochinger can be aptied in increving

 scimuaniogy mestaine knd nursing

6 Human Behavior $(3)$ *UC:CSU
Semerr 3 hain






10 Principles of Prychalagy (3) UC.CSU
Lencre 2ioun Letwang ithon




 thit triftrm

## 11 Child Psychology (3) UC:Csu

Lenamer 3 hart.
Prrequiniter Previliog I ef 6

Camiden general specific bchuver paums of childies, with a view
helping alyla berter uodenasal the dild's behwior and developnernt,
13 Social Psychology (3) UCCSU
Lenurr 3 hevn.
Armepuitite Ayshing I =e $\alpha$
Soulier indivitual hehwier as it affectu cehen and ass it is affeciel by othen. Considen lading puincipla discoveed by socisl scientian. Inchudo cultural anchuopologes grouth and decline of vocial inarinutions. tpos of individad interaction, and heman eonloper

## 14 Abnormal Psychology (3) UC:CSU

tanerr 3 hasm.
Arempmibite Aythilo 1 en 6
Acpuains the madent wide dynamia of penomalios aliumnest mechusinns, menal nechuzims, opes of esocional Chonders, varicue theoties of their origin and derelopptont, and variear therapeutic approachen.

16 Intimacy, Marriage, and Family Relationships (3) CSU Znture 3 ham.
Fivment Leve and Merigy
themens s scientific mudy of human behavior and aperiencr at cepresed in lont, marriges, and family melainomipe. Such eopla, as the penchalogical motiva of aevplen, the esinodional manuriyy of couplec, the need for an adequane frame of effernce for murriage, be deodiopencat of insopenonal competince and effective parmer and pacnotap rearions ant nudiel.

## 17 The Exceptional Child (3) CSU <br> Lether 3 hown


Coniden pernality rocial, and copsitive development of emeprional
 demaged ehirationally hotioppel wenary impuied bilieguel, cratic, and gifod thilten. Documon familal rexcion, special educational probleme and ochniges, asd welf laye:

## 18 Psychology of Women's and Men's Changing Moles (3) UC:CSU

 Lonery 3 him Averegmirite Ayshelyo $t$.Scobles peqcholopical and nociol gial inplication of nar mios, Cown peesen infomution and macrich su biologially and culyarlly dexnmined chunacrinica of wevers and neen, how thee afocr
 sperial efrument problems of men and women ie ser vociety wil be emplusied.

## 24 Scholastle and Personal Devalopenent (3) (NDA)

Inverr 3 han
Deipnel to heip mulents formulate asd ahieve xademic and penonal poak Fower on wh walemik skill a: note-thing, ten-aling tentanviecy redartion, delf disciplise, nine manageronet and loaning
 studens athine perontal nociras. Topior indale habit coneral, motination mining ponanul miforatios and enhancerent of elf -atrem. This course 's epecially uiefal for aduls sho are teturning to colices.

## 25 Power and Speed Reading (3) CSU RPT 1

Lexurr 3 inan
Eanphasiss the decclopmens of reading speed comprebenion, and wock lary throuph proake wich vaious andio-virual devices. Emphanis is plaxd an applyige fechuigues so bosh maty and kirur mading

## 35. Psychology of Chemical Dependency (3) CSU

Inciner 3 han
Aerequinifer Apheligy I er K
tsusalines cuses of alowhol and dnos usap and addiction and their effect on haman behavins. Fiamines the effects of varioun types of druge on the brie and servos sysem. Aho exumine the contribution of hemedity and environeme. Discume meament progrum, efocation and prevention:

37 Prychology of Codependency and Family Syatems (3) CSU Eerwow 3 houn.
Prempuitititn Aytaligo I er 6
Studies the effies of clemial dependency an family psuems and indiviluals within the family Addiction in a fancily divase. When ane mander of the family unir in clemically degendent, the ensie syoum bewome dyfuncianul. An apluration wili he male of codrpeodency the adult chilf wyndoma, herating the code of aldicrion, child shume, wriad abuse, enting diuotiess, and fimily violenoe:

40 Psychology of Parent Child Relations (3) CSU
Lercarr 3 boun
Tremsu a peogram fir puress and sther ropposible for managing of maining chiltm.

41 Life Span Prychology (3) UC:CSU
Lechers 3 hwan
 Arersquitive: Aysheling I ar 6 .
An intuoduction to peychologioal devclopment fiom infancy throuph ald

 taks, changes, and aljustineats relame to cach phas of the life cycle.

42 Organtzationat Piychiology (3) CSU
Intion 3 henn:
Amiss mupervaory penswal in undentanding the poople and the ergaizationa they deal with emphanis an the porthological apect,
 goop dyumia:

43 Principles of Group Dynamics I (3) CSU
Lentier 3 houns.

terrodoces de undest 0 the dyamia of group inernctions with an omphuir upon the individual's fine-hand experience as the group nuadie inelf. Under nupervision, the ficsins iavelved in peodicms of coemminiortiok effective interpenenal sifll and isdividual unurth will
 lealentip, chungr and prodictivity will be caunined.

51 Psychology of Consciousness (3) UC:CSU
Lernury 3 hown.
Avergwisian Apeleligo I ar 6
Sudy of moden imearch inse the pepcholigy of cunscimssess and almed states of cuesciousnes, woli as sleep, drugs melitaios. Biofeelback, earsiserwory perception, hypoovis, and craniviry The suaty of ploviological concomirtansis is indudel.

52 Psychological Aspects of Human Sexuality (3) UC:CSU
Lencre I hash:
Pereypiniter Ayphalogo $L$.
Explora the peotholugical apecs of humun ncxulige. Mdroves arnas of sexual developmest and fumainoing as they lave meaning, foe the
 idrning: Tepics include mule and frmale anameny and functioe of sen orpans pewoin of wexuality mothe and falloies mganting the nowal process in wipificance as a life fienction: dyfunction and variant behavice:

60 Stress Management (3) CSU
Iocrarr 3 hewn
Euemien methert of maruging mvinonsonal, otgenianional, wocial and internal isper in an dfort to promote notr effective coping on the past of ite iediridual in ocaupational, inserpersanal and ewryay Ife simation:

## 66 Introduction to Critical Thinking (3) UC:CSU <br> Lenner 3 henn

This cunne cown the nanue of critiol thinking model and maingios, ommeno fallscies of rasonings elf mgelaiant in the thinking procis. application of critical thinking to specific arras, and enduariot of problem taving technique.

81 Field Work I (3) tuC:CSU RFT 1
Intarv I honn Lelynatary 5 hown
 Aychlye or Lif Syan Ayshelar
Proides a lecrues chacration acrivity cuarne in which mudens function at amituar uscherv at the Campus C 314 Devolopmest Center under the


## 185 Directed Study - Psychology (1) tUC:CSU RPT 2

205 Dirncted Stuidy - Prycholony (2) tuc:CSU
3 Directed Stady - Paychology (3) TUC:CSU
Gogfrent I hur per wait
Allown itudens mu purve Directed Sruly in Nypholngy on a contract thais under che diection of a mperviuing instrusos.

## 911 Cooperative Education - Pischology (1) CSU RPT 3

921 Couporative Education - Psychology (2) CSU RPT 3
231 Ceoporative Education - Prychology (3) CSU RPT 3
941 Ceoperative Education - Paychology (4) CSU RPT 3

 Limite te mangfor emditir Ser Copponainir Elicatien Condir Gaide Supervisel minieg ir cosducted in the form of oo-the-job unining in as employment anca that will enhance the enilene's elacatomal gnale.


## Public Relations

## 1 Principles of Public Relations (3) CSU <br> Lenter 3 hown

Bohumes pultic mbitieer as a powing profemion. Looka at the pob oppottinities for the prascitioset, ineernal and caternal PRt and the staff
 egpaiting and escuring campaipns. The eve of phetoyraphof grophio and makening is mudied.

## Reading

See Psychology, English and Developmental Communications

## Real Estate

## 1 Real Estate Principles (3) CSU <br> Lnower 3 hown

Surncy the fiandameneals and princlyto of real atate, including wich mapor sopica an tral estate peactices, lew, finance, apptaisl, beilding and contructiont, invettment and propery makefoment. Vocational
 terminology and peinciplen to all acher real enure covanse.

## 3 Real Estate Practices (3) CSU <br> Lenture 3 hana <br> Prerxqwiniter Pual Fitate I

Coven the peollema of evtatlaking and operating a real nuse brokeray busines. Topics inchute enablinhing the effice, securing laring and propects, showing properies, closing vales, fisancing puoperty
 Real Entate Act. This count applies tiward the mandatoyy mequirmest for the broker's license.

## 5 Legal Aspects of Real Eatate 1 (3) CSU <br> Lncwer 5 Nwor.


Covers principlen of property ownerillp and managrement in their busines appeces, with epecial neformeses to dhe low of Californis an it applies to cemmuniry properry converatces, denfl, that drode, morgaprs. traes, Sroterays, mechanio' Tiens, homeriocsh, will and enars, and tave. This ceurse applies toward the mandamiry requirtinen for the beder's license.

## 6 Legal Aspects of Real Estate II (3) CSU <br> Lectiver 3 bven. <br> Prernywieiter Aral Fitare 5

Covers legal appect of real outate problemu, an whancod study of aprncy conerncts, chermasioms, an introdoction te ter problems is ietidencial and commekial priperns alvanod problens is security inurumerne, ryper of
 consunction liens, lanflont-tenast, and an introduction tu inforit agencin and activities, including loums (mineral, aid anil pes), Adminiarrative poocedars, and judicial review.

## 7 Real Estate Finance I (3) CSU

Lerber 3 down.
Avovguition frut Fiuate I avi! 3
Stuaties the fiems and sources of financing properss conurncrion and permusent financing, Covers the procedures fir F H. A. Cal Wrt, and V. A. financing mortgage papital frum avinp and lown anociarions, commechal timle, insurance conpiniec, and otier sources, fions mortgpges, appaising fot mnetippos, ban mation, and Insikholh. This coune applies tivan the masdatory mequinatent for the fevier's Iicener

## 8) Real Estate Finance II (3) CSU <br> Lnver 3 hown <br> Prenequisitere Roul Eitant 7,

Studica financing of conmercial, indumulal, and upecial-purpore peopertiex mathematical analysir of extum in equiry dollami effict of moetegge ternm on debe service and peicest anshin of finucial sumemester pertiaser as a source if findes techinical aperse of construcrinh finasing theat Ficaie Mungere Thume corpocale songlomerames a yudications developencht of feanibifity siudies;
 and ader creative financing tech niques; povein ment participutios AhrugA iolat action prograitu.

## 9 Real Eatate Appraisal I (3) csu

Lenwer 3 bvin.

## Avervgelition Roul Elivatr I and 3

Emphasiaes appraial methodr fier single-family meridence. Coven valation principles emphasiring she coes and comparacive appeoschea. Facmon influencing value are discraved, anch a, arthincrure intro, type of constructiont, lot valuation. depreciatinn, and other erlaned mbjeco. This coune is derigned for those proendy emploged in the real esuate fiell, or for those inntioted in the nibject manet.

10 Real Estate Appraisal III (3) CSU
tentare 3 hown
Arernpulititer Aovl Fitane 9
Emphamies appraisal inethody for maltiple-dwelling molilencen, such as partment boltirg and hoteh, office bulldings, shopping centens, indumtrial peopertic, and other income-producing propertio. Heview the Cout and Computarive wheniques for valuation bot emphasiven the Inconse Appmoch to valuation. Topica such as operaving expestes, methods of capiealazaion, depreciation sechniquas, poos mulriples, and other miated suhjecas are dacusend.

15 Income Tax Aspects of Real Eatate (3) CSU
Incher 3 hean.

Anamowninif fir aduawed mal niset atulewh.
Cown the impact of Foderal and California Stast ineome on lewn upon the puochuse, sales, cuchangre and use of mal propery. Inchado drpociation, capiral gains, imeallment alen, porpuid innerest, and un kaving oppormunitifa.

18 Real Estate Investments I (3) CSU
Lenter 3 hourn.
Prerequialier Roal Sisaer 1 .
Threides an afrancol coune in the analnit of imenment factons in rviluarion of commercial, industrial, and reidential properties. Inclales iftr locations, maing and alier monet mouricriona, finuncing, frankility andics, outhanges, alen and lrachack, cooperselves, and condamining

## Cooperative Education - Work Experience <br> Ser Amuknr - Cogennetior Eldacinise.

## Recreation

## 185 Directed Study - Recreation (1) CSU RPT 2

395 Directed Study - Recreation (3) CSU
Cagfromer I hewr Jer anit.
Allinav imulrati to ponue Difecied Study in Recreatios co a conerset
basin moler the dimaion of a mpervising instructore
911 Cooperative Education - Recreation (1) CSU RPT 3
921 Cooperative Education - Recreation (2) CSU RPT 3
351 Cooperative Education - Recreation (3) CSU RPT 3
51 Cooperative Education - Recreation (4) CSU RPT 3
 Gy whe ignatury of we Cappenanne Edacation Advive:
Supervised trainisg is condactal in the fisem of an-thejob maining is an emplogment area that will enhance the student's elucational pual.

Eimitr to manufer aredite Ser Ciopenuibr Bhwaries Conitir Civile.

## Secretarial Science

See Office Administration

## Sign Language

See American Sign Language

## Sociology

## 1 Introduction to Sociology (3) UC:CSU (CAN SOC 2)

Incour 3 hum:
Presens as otientation to the field of socislory incloding wheth
 die self, pender and age moley social clas and cask growes, tommoutioc, callecivition, and otginizarlonss devianue, beckm: human imstimulons: Gamily, eligios, oducarion. government, econenenca; and pupulation changer in sociers.

## 2 American Social Problems (3) UC:CSU (CAN SOC 4)

Incurer I hean.
Deak widh the vocielopial idenification und anipis of wamporaty social problema in the United Stato. Analymen appess of vocial and coltural change which include inene of penomal drmaraliation and sxial faroginlation.

3 Crime and Delinquency (3) UC:CSU
Ierren 3 hown
Examine the native and extent of crime and ddinaquess theocien of camation, yper of furenile and vilalt offensex, and efloms by society to cope with low vinhations. Includo programe for pervention, eserextint:and echubilization.

4 Sociological Analysis (3) *UCCCSU
Incurt 3 hans
Canditen approucher no the ncirmeific analyns of vociery ad social Initinutions Amslyma varisur methodeloglal nowh urifined in wocial soience rocarch and emphaises durifization of the haic nocial science immen. Snitener will ambur and orgahie date colleced in the fidt.

## 6 The Social Environment (3) UC:CSU

Latrere 3 heve:
Imertigae the novements, uendh, and tarribution of population and
 ubburban, and arhan nocirties, with particular emphais upon chango in the Unired Srotes. Combiner an amthmpological and rociologial orientriion to hurman ecology and demogrepho

## 7 Juvenile Delinquency (3) CSU

Lentary 3 down
Reluner delinquency to other arme of social dixarganiaxion nuch $=$ acooboliam and drog adidiotien. A coune for staserts, parrnos, wochal worken, and twachen in the problens relating to juvenile ranging in typfrom the potental delinquent to the invinutionalised ofiender:

11 Ethnic and Racial Minorities in the United States (3) UC:CSU Ention I hane

 the Unined Seates:

13 Society and Personality (3) UC.CSU
Lntion S ben:
 milieu. Lonka as rearch inventigations and their flindinge. Devoms atoentinn to child mining and colture pietemp in wene wrimen colturn cempund we some wop netterm sulurm.

15 Religion and Aserican Soclety (3) UC:CSU Lexine 3 hever.
 befivior and pofitial ropumahiling, cransiden mationeal nefquons
 inerraztiens penpectim.

17 Introduction to Counsetiog (3) CSU
Enrian 3 hann.
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18 Introduction to Social Research Methods (3) *UCCSU Lntan 3 heme

 encheipes and procechies Appine the kientific enthid to vrial
 danifitige interperting, and puerurimg woidel dan

28 The Family: A Sociological Apprach (3) C5U
Levire 3 ham:


 timily:

30 Technology and Modern Society (3) UC:CSU
Lectarr 3 heve

 futere sochl wends and thris inepkivenen fort the imbiridual and fer social seriectuer

911 Cooperative Education - Sociology (1) CSU RPT 3
921 Ceoperative Edacation - Secielogy fh CSU RPT 3
931 Cooperative Edecation - Sociology (3) CSU RPT 3
941 Cooporative Education - Soclology (t) Cst fPT 3







## Spanish

## 1 Elementary Spanish I (5) UC:CSU (CAN SPAN 2)

Lerforr 5 hann.





Introdacas the fundamenuals of pronumciation and grammar, practical vocabolary, and uscful phraies. Emphasites she ahity to underitund.
 poilings in proyraphy, cuitnmas and culrure of 5 puin and Spatiah Amerka. Finplith in seed to mplain gramtatical conorpes but abe das in onndacted as mush ien povilile in Spaninh. Cormoponst so the fiat yeat of highnolevel Spaninh

## 2 Elementary Spanish il (5) UC.CSU (CAN SPAN 4)

Enilurr 5 horen
 ${ }^{\prime} \mathrm{C}$ " er haners.



 Smini 4. 5, +6
Cimetieues with the dech presot af underntanding, speaking, mading and wrining abillr in Spasinh. Clames are ceeducted almoet entimely in Spasinh amt ure aimed at the aopuinition of fluency in spoken' Spanish. Coune evotent includer mumtit out estrmporary hife and cuátire in Spanish. spolisg countrins. Cormsponls so the secpnd year of high sochool 5 paniah.

3 Intermediate Spanish I (5) UC.CSU (CAN SPAN 8) Incmer 5 denn
 ${ }^{\circ} \mathrm{C}$ "



 5 panidi 4.5 or 6
 metive tometry
 undernaadings upoking, maling and wtitieg Spmich. Reviews
 Whomaric opotructives and convenational ability: Introducrion to the eraching of loterature. Diccames Spanish anid Spanish-American life and peoblems.

4 Internsediate Spanish il (5) UC.CSU (CAN SPAN 10)
Intwir 5 Amm.
 "C or intime
Rocomemended Comiarver emnllmerer in Spused 10t.
 billhe equidim.
Enphasines vocabolary huildiag and compoution. Given an ittmolaction mi Spaniah or Spunich Anerican wathon.

## 5 Advanced Spanish I (5) UC.CSU

## Lechur 5 Aivn.


 merier idnalry
Ianoducestive undon to some of the important movenens in LatinAnierican literamur Ischides madings in prose atd poerry frum mpatentative wirhons of Latin America and continiso the study of afranceil compotirion and grammas through oral and witeres repura in 5 patink

## 6 Advanced Spanish II (5) UC:CSU

Lenters bens.

 neative ignatom:
Latrodoces some of the inportant muments in tavis-Amerían litmature. Ahvicod malisp is pone asd poery frum appesentative suthoes of Latin America. Contimues the sudy of afvancid compervinin and prammar, onal and wrimen mports.

## 8 Convernational Spanish (2) CSU RPT 3 <br> Lntarr 2 hwen.



 of renies of Spanish verts, and fundamental sentence armature. Audio: wisual aids supplemest the pmoram uf imumatinn.

## 10 Latin-American Civilization (3) UCCSU

Lectary I dewn.

A stuly of the divene culuanes of Spaniah and Pormogure spraking coontres and peoples, sigether with the chemes, inatination, helieft, and evmhole that heve endurnt throuth, thme and thetr quirit in : fine and andentand their identivy in atcir actinns, is their memories of the pait, and in thrir derame of the furum.

## 12 Contemperary Mexican Literahare (3) UC:CSU

Lacturv Ithour.
Thementhe Crefir

Lrcrumen and dicusuions in Englinh on the literanue and hintofy of Mroke ituring the nocnictich cennory with a bickgmund of carber worla Studems will mad mandation of principal writen. This coone is the sume a Chiranes Studies 42, Contemporary Mrsican Diterarurs, which is offend by other colloges in the Lea Angeles Commaniry Ceilepe DatekL.
15 Great Books of Latin American Literature (3) UC:CSU
Lentere 3 hear.
Themawinin Omir

4t mit mpaint
throdaces sclemen waitingi of Larin Amerrican auiloen asch as Mariama Arvela, Juam Rulfa, Ricando Goiralder, Rimulo Ciatiogos, Migud Auturias, Aupurin Yanes, Jose Moben Romers, Gimgonio Lopee y Fuentor, Mario Varpi Lora, Has Certaras, Mantis. Arguets. Jogge loxas, poir Dhinums, Mastorl Neg and others, with purkicular emphair on onniemponary writen and the "Room Movermear", All madiep, koum, and diccanioses will be in Engthe.

25 Spanish American Short Story in Trasalation (3) UC:CSU Intmer 3 hann
Thumenitin Cindit
 th init mymintit
Survegs the defferet lixerapy mivenente and tenilenclor that hare marked the evalution of Spanish Amerian literarure from the 1330s to the boom
 Coumopolitanium, and 5urcalim, All reading, Incure, and discumions will be in English.

25 Understanding Latin Amorica threegh Film [3] UC:CSU Invire 3 hwart.
themasinier amplit
Famines feature filmes as a communticative ant foem that offen a thematic pproch to doe underuandiug of the diverse multicultume of Latin America. The Thms anslymit refoct four buic themen. Tramition and Chante Culnural Contrams, Human Righns, and Women asd Socieny All maling, lecrures and discanines are in English. No knowleder of Spaninh is necenary,

## 27 Cultural Awareness Through Advanced Conversation (3)

 UC:CSUEncher 3 hnurs
Hemernitin ontif

Developn otal facility and cultural awatries, emphairing spoking and underitasding Sponish in everplay situations ommon is Larin America Goad prap of granmar is a preteppinine. lhequies itudent to live in a Spanlith-ipealing coantry:

## 101 Spanish Language Laboratory (1) CSU RFT 3

tahonetory 2 hwurn
 This is a crefin/no-coelit coune. Scudens pocive une init of college celiir (with no leterr grade) by upending at least 32 houns ower the wemener saing the equipoment and mpularly funding in the lab wweldoods
 (vidm, audion and compesers) so cohace instruction, Srodeass must be curnatly enmilmi in a Spanish languagr chunc.

185 Directed Study - Spanish (1) TUC:CSU FITT 2
255 Directed Study - Spanish (2) tUC:CSU
305 Directed Study - Spanish (3) tuC.CSU
Cenfinmer I hear jor weit
Allows students to purse Directel Seuly in Spuninh can a cupanact banis endes the dienction of a wopervising isatrwasis.

## Special Education

1 Introduction and Survoy to Learning Disabilities (3) (NDA) RPT 3
Letarr 3 hum
firminly I nervive SWiJI 12
Arerequiriter Lersing SHill I85
Couse provides intrame intudnction to leirning diabilitics. Seadens will mad lieramue meland to subjest, be alke to infestify varietier of Iearning dinablities and relaind campensamy stangies for parsiculas learning deficios. Scudents witl infonify jerninat litiventhin itracrpos th maximur scałemic efform.

2 Reading and Composition for the Learning Disabled Student (3) (NDA) RPT 3
Laniry 3 han.
Fermerty Loaralyt Shild 14
Prereqwistioe: Lharnigt SFill 185
Special Education 2 will prowide leanning dinabled enulenes an opportunity po itmpone rading and wiving will thruph dinical mesment and istividualined precripuive farmale that inclide locromes,
 "ethulaing akille.

3 Computar-Directed Writing Skills (2) (NDA) RPT 3
Inturr $I$ hewt lahonery 2 hewns
Finmoth Enarmint 5kit ?

Seudrnts will maser precompenision and coepporitios skills in onler to evite simple sarrativ/informathe enaph. Thing IiM-hased ciemperter vyetm, larning diatled umitrner will Arvilop binic onempoitice thils, and demorutrate matery of grimena, punctuatioe and pelling.

8 Adaptive Persenal Development (2) (NDA)
Enturt 2 humer.
Group menty of selecent mipion, the title to le specifled in the schednle of daver:

## 10 Basic Vocabulary for the Hearing lmpaired I (3) (NDA) RPT 3

 Eatury 3 bwor.Mormatiy affers is the filf smenter
Thoviler the oppornuairy so lean ensenthal woedr enowentered in collep reading. Applies the wods in sudent-crmposed acnoences. Companta and contrans mranings in Amelan wít meanings in Englith. Develop upeling ahifity and emphtarine the hatit of uning the dictiotary and other trole for builling viscabulary-

11 Basic Vocabulary for the Hearing-lmpaired II (3) (NDA) RPT 3
Lntare Shesm
Nomalhy dfroml in ohe Syring Ammenter
Continues vocabulary development of hearing-impualired anodents for the prurpose of limptoving meading and writing skilk.

## 21 Reading Clinic (3) (NDA) RPT 3

tantarr 3 hown.
Anliss the hearing-impuisd stalent is developing thlat vocobalary maling compechension, and wond atrack alilik. Provider eppoeninity for lincreasing epeed and efficiency in feading.

## 24 Practical Mathematics for the Hearing Impaired (3)

 (NDA) RPT 3Lemary 3 hans.
Cowess murhemarial cunorpts up to and iscluding wome fundanenal algeten. The conceper of fractions, decimals, percrest, mesansemest, and worit pmbtum atait thill will be emphanheet.

29 English for the Hearing Impaired Student (6) (NDA) RPT3 Ieturr 6 hown.
Aasas the sendent who is hearing impaived with opgratiag Finplith language skills on an individad hasis. The coune emphanioes wocibularys reading and wricing skills.

34 Carear Planning and Proparation for Disabled Students (1) (NDA) RPT 1
Lenver I Buse
Comprohenale appeosch so Career Hanning for Disalled Students. This cenane is denigned in help stisients define valid carter choiken and peepare for job teadisen. Topics inctuder career aseswent inventorios, job search
 prosection.

35 Computer-Assisted Vocabulary Development (1) (NDA) RPT 3 Ieluntiory 2 bewn.
Sendents will work directly under the sepervision of an instructes, and mork with Special Services mikrocompatest which will perfiom the itutractinn and toting of new vocabalary: Sundents can leam up to 2900 words.

49 Computer-Assisted Spalling Developenent (1) (NDA) RPT 2 Labonatry 2 hvars
Students tare a compuier to learn, pracrice and he iested on up to 750 commonly mispelled words. All work is indivilualised, and eturkenti leirn only those wunde that they do nor knows

35 Adaptive Word Processing (1) (NDA) RPT 1
Labonatory 2 hown.
Prernpuifiter Kinswinder of ighlaanding
Provides hand-oe trainigg in luatic word procesaing shill for atodenn wha because of their dinalitiry would othereike he whable to acoes the onerprites. This course is mot invended to train suadents fot a job in word peocesing

## Speech <br> Communication

## 101 Oral Communication 1 (3) UC:CSU (CAN SPCH 4) Lnwery havs.

Aeropuivine Elipiting for Exploid 24 nommondrd
Offers training in the theory of epeech commetication and the pactior of effective prepuration and delivery of serverused ocal peosenusiont.

103 Suslness and Professional Spasking [3] CSU RPT 2 Lecherr I houn.
This counse enables the sruleat se apply speech communication dills to the bouinerr secting, Strucrured ocal presentations are uoed to gain the skilh requied for business meeting, conferences, invervins end discumiones.

## 104 Argumentation (3) UCCSSU (CAN SPCH 5) <br> ternew 3 hours <br> 

Eeplaen be crinial thinhlog process, enphaining the uie of logic, veasoing, und cvidenct in the pesestation and andyin of sound argumsents. Stuilens will participase in dehates.

111 Volee and Articulation (3) CSU
Incurer 3 hein.
Prenido specch experiences to develop awarness of correat wowd and consonant articulation shosogh the use of phonetic practice. Coven woclularss phonetic and diarrifial rymbots, slphaber and the rocal mechaniam.

113 Enplish Speech as a Second Language (3) CSU RPT 1 Levier 3 hwen
Sermer upealing of Englth, probunciuion, itionuic erpraios, phuseviogs thythmic inflections, grammas, vocabulary boilding and onal tompostion. The coune in designed for nuikna with foreign languger bachenound.

121 The Process of Interpersonal Commuaication (3) UC:CSU (CAN SPCH 8)
Lenner 3 heme.

This lecture/setivity/dincuasion cosuse ceamines the theogs nope and purpose of human cummunication.

122 Communication Across Cultures (3) UC:CSU
Levmer 3 hawn
Surves the vedul and noe-verhal wap cultures of the would cnemmunicate. It focuses on communication fundamenalk, languege: culranal erigins, ani methode of handling intoryinuml communication conflicts. Snudents will participane in revarched onal dixumines of selectod culrand groups.

130 Introduction to Oral Interpretation of Literature (3) UC:CSU Lncurre 3 hewn.

Devolope the unident's abiligy to undentad, uppreclies, and perfuem variona forme of liserary art. Emphasit it placel on the eclection, atal) in, evaluation, and adeptasinn of significant fitrary matrialt at weil as on their artiaric oral presentation.

155 Directed Study - Speech Communication (1) tUC:CSU RPT 2
285 Directed Stody - Speech Communication (z) ruecsu
395 Directed Stady - Speoch Communication (3) tUC:CSU Confinest 1 howr fer snie
Avernguirite Syench Commaniction 101, 102, ar 104
 Speech Communication on a eosersct hain under the diuccive of : superviaing inumucesc

911 Cooporative Education - Spesch Communication (1) CSU RPT 3
921 Cooperative Education - Speech Communication (2) CSU RPT 3
331 Cooperative Education - Speech Commenieation (3) CSU RPT 3
941 Cooperative Education - Speech Communication (4) CSU RPT 3
 by ale ijmener of ite Compmetior Fivatios Adium Sopecrivel training is conducted in the form of en the fob mining in an enployment area that will eshance the nudentr nlucatienal gouk


## Statistics

1 Elomentary Statiatics 1 for the Social Sciences (3) UC:CSU (CAN PSY 6)
Inverr 3 heen.
Arenywiriten Mankenailas 125,
 Algobna ar iat eqwinalent at abe fint deur morolve
 227, mentmum ase mars.
Cowers North docriptive and infernntial utatintica. Tipiox inchode noedeals aned se cullect and describe dasa, ommal tendenge varibluligy, the nommal
 hyp chais verting
Finpharis is en concrforaliration an merl an data andhin.

## 185 Directed Study - Statistics (1) CSU RPT 2

## 285 Directed Study Statistics (2) CSU

385 Directed Study - Statistics (3) CSU
Conferemer I hour per anic.
Allows andenes ep punae Diected Smaly in Sizeintior on a coneras hasis under the direction of a mupervining inatructos.

## Study Skills

See Psychology and Developmental Commenications

## Supervision

## 1 Elements of Supervision (3) CSU

Lencurr 3 howin.
facuotuce in genernt serms the motal reppontailitien of a sugervisor in induatry. Topia inclule organiration, datis and roponaibilitien, human mations, grievances, training rating peomotion, quality-quantiry cootnd and managerinent- employve nrlariont.

## 2 Basic Psychology for Supervisors (3) CSU

Lectarr 3 hems
Pernpwiniten Suprrvinim 1 .
Teacher the havic peinciple of dealing widh people in busises and indaury to asast the auperyinot in andentanding the people with whom be worfs. Emphasises the perchologial apects of enoorion, attirudes, penctions, pencmatities, lomeing procewes, morivarion, and fob nduerment.

## 5 Labor-Management Relations (3)

Intarr 3 hene:
Siufier employer-employer mations in prememest and buiness Incleulea the nupervioor's remponibility tor effective managenxes-

 houn, grievances, diacipline and other working evosfitione and employer and enployee rifits and obligatione under a cond tervice sysem. Cinsibles the mole of emplogee organizationi he goverament apencies venas pelvate induary:

## 11 Oral Communications (3)

Lerner 3 kurn
Pruvide classiem practice to innpone speaking skilh necensary for managrisent, Huilds pernoeal cunfidence. Develpen joles, vocabulargs ganues and the ahiliry to peak extempotaseculy ther me plying to Sevelop speating skilis is apical buaines sinuations, Prometes Iralenlip chancternetich initiative and Itive.

## Theater

## 100 Introduction to the Theater (3) UCCSU (CAN DRAM 18) Invery 3 hean

 The ctan exploee whis thater in all aboes, whur goen on in theitrs, and what it means from an audinnce peripective. The coune seds to mupply the stulent with inilithes isto de thearrical procruse in arder to give him or her a wider bair for civilarion and eniegmene. All apects of play producion aee exploned playwiting, producing dinexing, acting criticiems thearm architrcture, wet deligh, comume deign, Ejghing delign. and the role of the aulience.

## 105 Drama Digest (1) CSU RPT 3

Lervice I howr
Rowmmonaind for alll majims
Carent thearre and performing events are exploed! Phovide opportunities to autrnd phen, wiew acring acenes from clases and productiones, leam about all the zrtimn who ereste the "tnage" of theane: and to diocuss these with fasclly members and guest artise.

110 Histery of the World Theater (3) UC:CSU
Enchere 3 houn.
Surdien the development of dhe thater from eallest periode te de prownt. Play realings, filea, and hiventical uende ase divoused.

## 115 Wistery of the American Theater (3) UC:CSU

 Incharr 3 hounComilers the divelopmest of Theares Aru in the Uniend Suser from carly beginning in America to the present.

125 Dramatic Literature 3 3 UCCSU
Lntime 3 houm
Sewe as Exglibl 213 . Condr mut gien fir hoth cowne
Survegs the major drumalc forms in the Western World froms the esuly bopinaing to the peremt time. Play reading for plenume, appreciation,


## 130 Playwriting (3) CSU RPT 1

Lexrarr 3 hown.
Offen an oppornunity to prosent original play ideas and uratments mo be malyued and criticimet Thmugh dan kectares and divcuaion of text materiale, stadena will strain a depper knosledge of the dramark conetruction of a plef

## 25 Beginning Direction (3) *UC:CSU

Lncrove 3 han
Armequiriten Thatar 270 end mer meteviod divaier dien (Thevier 300 drowe 4009.
Leads the sudent from the haik waipe though all the dements secenary to pet the phy on ragen ineerperation, cavting, chedeling, movemest, Hocking, buaines, pace and timing Provider firm guidasce for boginning difcotin in the uchnical handling of a scipt from preparation of a prempe scripe tos weeking oer of techinkal phoek.

## 232 Play Production (2) *UC:CSU RPT 3

Letonang 6 lown.

 fint seet during which aest are whered for fonaly dimond pmaluation.
Represess the culmination of the athdent's acting eqperience. Hene taudena demonutrate their ability to perfurm is fully teaged peodacions
 ponitie, to develop from minor mole wo the cleariok of moee denanding durncterizations.

## 200 Voice and Articulation for the Theater (3) **UCCSU <br> Levere 3 hens.

Drats with the fundameatah of good roike, grod yeech, and dynamic vocal exprasivenes. Towand thece goale the following elencuts am undiedt breathing poerues, menance, loudness, timing, pich, and clear arricalation.

## 243 Dialects (2) CSU

Lemure 1 howr Lalivatery 2 hasn
Armapihtiter Thater 2va.
Povides uminiag in ploolor and in the performance of epional and foerige dialoces which at most upplicable to the chater antin.

## 250 Childiren's Theater Production (2) CSU RPT 3

lallowian 6 hown.
Prempuinite Theuar 270, and 302,411 ar 62 (Mag be cownwmely nginemi is Thencier 342 411 ar $\{221$
Rogitud militinns are hedd the first weck of dom, dariog which caer ar selecred for faculty directed production. This das in identioal wo Theser 232, the single aception being the kind of material presented.

## 262 Special Projects (2) tUC:CSU RPT 3 <br> Laliention $f$ hour:

Seusents are given oppornanly to plan, mheane, sage and pooduce peoject for preventation before mujent audiences, ot otherwie increas Foowlolge and epperience in dance theates.

265 Movement for the Actor (2) **UC:CSU RPT 1
Leviver 1 howr lakeseng 2 henn.
Selections from pieys, poecry and prose are uefined to mile the acoce to approach the test from a "nisovement" point of view. Exencisca and Improvinations in sensory-motor awarchess lead to feribiligs, balanco, energy and exprewivenet on ruge:

## 270 Beginning Acting (3) **UCCSU (CAN DRAM \&) <br> Legrare 3 hasin

Puovida inatruaction in the buik techniques of maing, Mepues the unudent for nhiequent acring clawes, and meess est of the mepuirencens for the prodactioa dam.

271 Intermediate Acting (2) **UC:CSU (CAN DRAM 22)
Lemint I hear Lelonviary 2 hwan.
Avroquinites Theater 270
Providea more advanced inatruction in acting fumdumestall through the medium of kent itudy. Gertuer depeh is expected in both charicterizaion and reripr analyui.

## 273 Advanced Acting (2) **UC:CSU RPT 1

Lenurr 1 howr halowary 2 hown.
Arveguiaiten Thesier 271
Contimues the is-deph work of lotermediute Acting utilining scenes from mature woils of drama. Presentational shills ase charpened an the undent is malied for performance.

## 291 Rehearsals and Performances (1) *UC.CSU RPT 3



 ownt atr ulinowd fire pmdertiens.
In this coune utudese ase actively lavolved in the prodiction of pleps for college and public performances. Primury emphaie is on the ability to perform acting and wepr cerw merigomente Gudene mer he werk in the artas of publicing house munagrosent, vectunical theates, of comuming

## 292 Rehearsals and Performances (2) *UC:CSU RPT 3

Labousiry 6 hear., plai mivenali ad/ perfirmawn. Revemmended Thouer $270.34,122$ In equinalent. Andivies and
 owes arr minoud foir pudicrioses.
In thil coune mudents ate actively involved in the peodection of plopt firt colloge and pultic performascen. Pimary enphaic ib on the ability to perform acting and ruge anw antigntents. Stulentr mry ahe work is the arean of pullicity bouse masagrment, technical thesurt, or coataming

300 Introduction to Stage Cratt (3) *UC:CSU (CAN DRAM 12) Lexciave 3 houn:
Through lecture and laboasory demonatraion, civess all phuse of soese conatruction, painting, mounting and nianing of tage kemery Alve coves the use of round, Thatring equipment, and soger popertios. Adficional introction is gives in tuage erminology and ble organiration and manapenvent of itage crew activites.

## 310 Introduction to Theatrical Lighting (3) *UC:CSU

Encher 3 hean.
Perwipubiter Thuater 300
Presenes the haic principles of thearrical lighring, dolgned to famitiarite the stadent with the equipment, the melivin, and die doign finecione of stape lightring

## 315 Introduction to Thentrical Scenic Design (3) *UC:CSU

Lennery 3 houns
Aempulitilen Theater 300
Conen training and peacice is the problemu of doligning for nage inclaling cosasuccion and painting technigues, developmeer of the devipp conopp, boderving, and modeling the dorige.

## 342 Technical Stage Production (2) *UC:CSU RPT 3

Lelentary 6 dion.
Noun Mrra Theiter 232 prenypuitias.
Pruitla work is all sechinical appecs of plyy peodaction ian serna of sualy and labocotory practice, incluyling raye manding. Iyheing sene conturnction, painting, detipring and we of itape equipment. Offers
 second smester stadents.

## 400 Cestime Pariods and Styles (3) csu

Inver 3 tiwn.
Sedier major developmener in connme during uocrnive Hituris periohk. Explores the intosencr of cosumes on the mevement, munses, and
 application and sleptation of period detal and note to the mearing and comutruction of stape coutumes.

411 Costaming for the Theater (3) *UC:CSU RPT 2
Lonner 2 heme hlimulury 2 han.
Noter Mrent Thruair 230 pmeppibite
Sorvey thearical comuming an a craft and an a delipn an, Ienvolvee detign principles, rescinch mathols, penem and conutnictios techniquer. wewing evupponet use and maistenance, mad the fancrions of cusume persinned is producion werk. Lab wurk may indude amipmeness ee currese department prodastions.

## 422 Applied Ceatuming for the Theater (2) CSU RPT 3

Labonatry 6 heun.

Phovide practical operiesces in varioss areas of coseume pmodurion ent prevestang: Asigenieas ischale avitance in coseume comensction and electioec warduobe mitreas and mastre mapeovibilitien maintrnunce and smonpr of cotames. All work sinignemeet are en cerent deparment productione.

## 450 Beginning Stage Make-Up (2) *UC:CSU

Lentart 1 hour Lelenuang 9 han
Inpoduces moless mo the haic nechniques and materialn of thearical make-up, and giva procice in ias applicatina, Sndents will lears to apply straipht, conctive midill age, olld ags, and fantayy nule-up. The spplication of facal haic wan asd brivee sad nose pury will slus be thudiel. Lah work may include alignmena on curtent deparment productions.

185 Directed Study - Theater (1) TUC.CSU RPT 2
295 Directed Study - Theater (z) tUC.CSU
325 Directed Study - Theater (3) TUC:CSU
Cenfinwer I hen per unile
 under the direction of a wpervising isutnactoc.

## 911 Cooperative Education - Theater (1) CSU RPT 3

321 Ceoperative Education - Theater (2) CSU RPT 3
931 Coeperative Education - Theater (3) CSU RPT 3
941 Cooperative Education - Theater (4) CSU RPT 3
 by alo igmaner of de Coppratior Blacanion Adiust

Supervised trining io conducted is the form of on-cho-ph maining in an

*UC Condir Limit Any ir aft onnes ambinol maximant 12 nuik
*UC C Cridit Limio doy or all emone remiinoh, mavimum 12 ania.

## TyDewtiti19

See listing under leduatrial Technolegy - Welding

## Woodworking

See listing under Industrial Technology - Woodworking

## Word Processing

See listing under Office Administration

## Faculty

Accarta, Donsa L (1383)

ML Unvenity of Nerals, lleno
MA. Lhiventif of Novils, Rema

## Ahmadian, Jack (1980)

Apror of Melimetia
A.B. Uviverivy of Calfifnic, Lon Agele

MS. Univerity of Senthen Calionia
MS, Cilfonis Suse Uniervig, Let Anples
Ahrems, Stephan R: $(1985)$
throur for the
BS. Thinerier of Vement
1D. New Kink Law Sctoel
Allocee, Brends K. (1905)
Aprow of Nontry
AL Sun Remelino Vhey Ciler
BS. CLifonia Sare Ulivering Lax Angla
MS. Iema Inde Univenity

## Aminoll. Svasa (1996)


IA. Stan Llimenity of Now Kack MA. M.D. Univerigy of Siothen Calfortis
Anderion. Marcla A. (thest
A)foref(Maning

BS.N_ Unieniry of MEdigan
MS. CIVGunia Saur Univeniog, Les Appla

## Anderson Richand (19e4)

A.for of hyitho

BA, Oetidenal Collo
MA, Galonna Sane Llivenigk Lae Aepres
Banil, Kathlevee L (1965)
A.fire if Bumer

B5, Kont Stan Uhieniry
MA. Colforniب Sive Uhivenit木: Nontuider
Beft, Michaet tr tisert
Mof of of howal Sheme
BA. Onoblental Colle

## Bellec, Aathony (1968)


IS. Uniervity of CLEFifnia. Lan Anplas
M.BA. Califnia Sun Unienies Nethidye

1D, Legelh Uhevering. Lae Angeras

## Beyec, Frank (190t)

Nyfor of Beth
MA. Se Jobia Caly
MA, Univericy of Clitionia, Les Aepph

## Bixiec, Margeret L (1979)


BA. Chirevity of Calfomit Rerloley

## Boggess, Edward L (1975)

Mhere of temohored
Ahmifnom Cmert
AA, LA Kence Callyt
BS, MS. Callomia hhlpectnic Start Ulivenigy. San Luir Chipo
MA. Nint Lenas Nuarer Colligs: San Dimp
Bradleg. Henry A. (196z)
Aprom of Madm lerpar
BA. Anmes Colre
MA. Cirement Gahluar Sided
15. D. Unircrity of Seuthen CELFmis

## Braut, David S. (19es)

Apforrof haies Ahictinalia
Depurment Chaipmes, Buinea
BA. MA. Calfirnit Sane Ulevenity, Lan Anples
\#rown, Roper A. (1975)
Aphuth Cowiliy
MA. MA. Sin Funcico Saut College

## Buchbinder, Sve (1974)

Thpher of Covilig
BC Uhinnity of Phith
M.EdGeorpo Sole Univesiry

## Burss, Karin R. (1994)

teritr A For of Eyth
BA. Unierniry d Califinia. Les Aapin
MA, Ulivernity of Califinia, las Arpies

## Burry, James L (198:)



MA. Univeniry of Califmia la Angrla

## Campbell, E. Dudley (1975)

Amer forcily
AB. Unveniry of Cal forme Le Anpile
MA, Caifoenar Sont Univeniz: Las Anples

## Campbell, Thomas R. (1975)

Anfore of tivio
AB. Univenty of Clifimic, Nerkeky
MS, Uhiresity of Googi

## Carmely, Theodore (1996)

Alunt Ahfir fotyon sinu
MS. Univeniy á Califinia, Lan Aopla
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## Carthew, John A. (13et)

Prfier of Ginyth ML LeiAmpla Ciy Cole BA. MA, Mi.D. Uniminty uf Culifenla, Lin Angles

## Chevarriz, Mary Magdalena (19en)

Aphiraf Eapor
Acidenc Seass, Fius Viat Roikent
BA. MA, Calfesia Sate Univerig, Numbrider
Pho thimenty of Sochen Clifieti

## Christenses, Audrey (1300)


BA. MA, ITproriar Callepe
Christie. Evelm G. (1995)
Mflar formery
AB. Inmaulye Harr Colloys
M.A, Saraiol Unieniry

MS, Califinis San thitenity Lee Aqples

## Clark, ton (1961)

Ahfore of theiver
BS, MA. EAD, Unimeniy of Califoela, tar Aoplo
Colben, Jeflrey L (IMT)
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MA, log liand Uniersiy
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Cohn, Disese (t9me)
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MA, MA, Calfonis Sas thinasigy Northeiler

## Cook, Leslee (1979)

Aythor fo Cevaliy BA MA. Clímia Saz Univenip Nisrinily
Cornnet, Willina M. (1975)
diniuw Nomar of Jornalim
A. 11 Cmin Collyt.

BA, Calfimli Sate Ulimains Loog Ploach
MS, Norleove Lhinmity

## Crwwlond, Roger C. (1971)

Ahfrow fltheir
AB, Wilianjonel Collge
MS, Vindadat Leheruity
Cruzec, Nonnan P (1974)

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## Curbs. d. C. (Sersette) (1971)

A.paor of Thulathentir BS. Unveriry of the 1hilppioe. Dilinum MA. Cathonis Socr Uhivenigs Northridyr

## Daruti. Kathy (tiss)

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## Duxates, Mary $0 .(1870)$



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## Farnoush, Nader (1955)

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## Flores-Esteves, Manuel (1sem)

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BA. Unineniry of Rumb lico
MA. Univeniry of Clilbimis, Lon Aagies
MS, COlfimin Star Unieniry, Les Angro
Pirne, Kathlese L (1995)
Aaisur My/her of C Mriity
BA, MS, Calfinit Sate Unimenig, Nartrile
PhD. Uhiversig of Califienis, Devis

## Folletet, Hichard 1 (1984)

Ayhor of Euth
BA. MA, DA, Uninenity of Mochipa
Forkesten, Ann (1996)


K.D., Uhierniry of Clifimic Nivnile

Fox, Stuart L. (1386)
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M. Unitenir of Calfornis, Las Angelo

MA. Calfomis Sue Uninenier Len Anpla
ThD, Thivering if Sowiten Calfinnis Melial Scheal

## Qello, John (t981)


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Gral Scarlen (1505)
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MA. MA. Uwinerity of Caliomia, ten Angelos
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Gellber, Mertin B. (1985)
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## Gienti, Shelley (15e1)


BS. Ulivenity of Wiswain
M.Ed, Rutpen Univesity

Gibaon-Lot, Anne (19m)
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MA. Uriverivy of Calfonls, Lan Aepelo
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Giles, Melva T. (13es)
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Girgis. Amal X (t595)
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Goerss, Harold E (1977)
Anher of Firnemis

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Sonzalex, Margarita L (1se4)
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 MA, Cal Sow Uhieneeg Northily
Goodmas, laidere L (1986)
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BS. Sow Unimniry of Now Tixk, Alluay
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## Gopdon, Mitchell $A$ (15e4)

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## Gvttlish. Miriam (1992)


BA. Uhwerniry of Catsfrnis, Sonte Ratans

Goenlieb, Seymour (1970)

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MA. BMI Unimenty of Manitolo
MM, Liviniog of Califela
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Holden, Joan M. (1986)
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Houston, Aan H. (19es)
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Hres, Wayse L (1sw5)
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MA, Ippendine Univenity
Mume, M. Carlyle (1975)
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AA, Las Applas Kenz Colloge
BA Cal隹ia Sene Univeniog, Las Angdes
Mkasto, J. Martin (1971)
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Inocencio, E. Bing (1996)
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BS, Aeroo De Menila Uniersity
MS, Uhivenity of illonin
MA. Livority of frumethaig
ThD, Uhimericy of Promplemis
James, Anna Gale (1565)
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BA. Vonderisi Uhemity
MA. Unineniry of Kmedy
James, John Robert (1ses)
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BA, Clifomia Sate Uhivenirg Leng Beach
MS, Unimenity of Souten Clilfoma
Jotaron, Jodia (tipet)
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BA, M/L Cationna Soire Ulevenim
Nonthidge

Johnsen, L . Thomas (1972)
Avhar of Philophy
MA. Univerit of Manese
MA. Columbas Univenity
Jonen, Edwin A. (1ses)
Mhrow of htrid Stimer
AA. Glendt Colloy
BA. Ouchanal Cale
MA, Clifornia fatr Chiverigs: Las Aagpla
Kaifler, Sol D. (150er)
Apher of Eamenia
A.B, hooblen Callegr
M.S, MA, Uainctiry of Southen Califmis

Kinehloe, Palph (1970)
Apharfaito
BA. MS, Redfum Young Uhivenity
Kistel, Paul D. (19m)
Aphar Ende
BA. Lopta Uhinairy Las Anger
MA. MiD. Universiry of Calionis. Las Aaprles
Klass, Berrand M (19es)
Anjour ofthan
BA, Rooselh Callye
MA. RAD, Lhivnicy of Calformis, Las Anglo
Keller, Evelye M. \{1306\}
Aghar of Aidso
BA. MS., Glifumin Sune Uhiernig, Nortuidy
Krahn, Helen M (1se0)
Avhir of Cowner,
Andmes 5 mas hella
BA. Coplal Uhiverity
MA. Ofie Sone Univeniry

## Kramer Crily S. (t9en)


BA, Olivenity of Callifonis Sums leturn
M.A. Univeniry of Midipn

## Krumac, Q. Thomas (1981)

Anournlonetim
MA, Uninesity of Califonic, Derlerly
MS, Ueinnity of Culifinis, Los Aoprlos

Krause. Gary B. (1979)
Nefner of Leminate Achiocnur
 finoma
Krikarisn, Lawrente K. \{1983)
Myher af Byat
MA. Nint Lema Calige
MA, Unimeniry of Calfonis. Les Aspden
Brimen, Susan (19en)
Amher of Canpour Sinstate
Mamenties Tintsulor
BA. Usimensiy of Calfomis, Les Aspeler
Itaback, Kethleen L. (1995)
Alitant Ayfor of Blalo
BA. Cal fur Unienirs Nenthider
MS, Cal far Uninroity, Nontridy
Kacryanki, Johan (TY6t!
Aprier of An
Apartent Chupertich Ar
AB, MA. Thbernitr of Califienis. let Aeples
Gail. Karen It t19nG
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Larson, Eapene S. (1176)
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is A. Gechomit Cailepe
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Lee. Stuphen (1394)
Apour of Geing
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Lenier, Mianette C. (1984)
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BA. Clfomm laye Univesins Northrider
HA, Shimnsiry of has
M.A. Th.D. Univerery of Suman Comer
Levy. Norman S. (1935)
hofoer of Nabial Sower
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Lewis, Henry E. (T96a]
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Lieu, Sandi (1985)
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Th.D. Domin Collegr
Uhisan Melanie (1996)
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Logan, d. Barrie (197)
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BS. Unverify of Tias
Th.D. Calfomis Intinust of Techaviong
Lepex, Henry R (196e)
Apher a/Mairs Lanpugr
MA. MA. Lhirrtitr of Soothen Calfornia

Lyees, Robert M (19e4)
Ahfoer of Baiven Edecalen
Dinetir of All/hie
B.5, MBA. Uhivenity of Callonis, Lat Aqpies
Marane, Damiano A. (1950)
Ayfrier of Madra Latpogn
Deparnser Chair of Maires Lavpogn
8, Humer Colly
MA, MBA, Uoivenity of Calsomis. LonAegries

## Martinex, Cerles (179a)

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MA, MA. Califoria Satr Chimenits. Las Agpries
Martinet, Jenaifer (1030)
Anume Mofrer of Mahnewir
BA Calfonil Sam Uhivenity Lang Bead
MS, Ueineniry of Calforria, Imise
Martinez, Robert M. (1982)
Anmiar Aphor of Matimatio
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## Mareika, Edward R. (15se)

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HA, Calfoms fant Uninening, Las Aageler
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## McCaslis, Jop (19\%)

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BA. Ulinemier of Callonmis. Sunta leaturs
MA., Unimeriry of Calforis, Rumenile
Th.D, Unerniny of Caifienta, Las Anplen

## Meferran, Douplass (1366)

Auharefininugh AR. M.A. Gamap Thiminy
McMillan, Richard B.(1996)
Antiaser hofoer of than? BA, MA, Catiomis fare Uhiverign, Nonlrader
Merrill, Domisiget L (1590)
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RA. MA. Uninerivy ufGalifinis,
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Mejec, W. Craig (1375)
Ayfor of Ging
BS. Tilune Hoietior
MS., Uhivasiry of Soodirm Cathini4
Meyers, Paul A. [1574]
Aphor of Ekivy
M, Whitan Gallpe
MA. Ph.D. Lhiversiy of Galforich
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Mall, Charles H. (19BR)
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MA, Cilfunt Lathem Collye
Mandsack, Allan (1998)
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BA. Whemein Sene Uhiorrion, La Crase MA. Sas Diggo Sare Uhivenitr
New, Densis (t984)
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## Nordherg. Pael C. (1975)

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Chas A Vecrional Condentid, Unimeniry of Calfornis. Les Angeles

## Norton, William A. (19e9)

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## Obayath, Kamben (1YM)


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## Oborn, Kathy

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## ODes, Marcia C. (1101)

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BA. Catornis Sarn Unirnip Les Aaples MA., Ulivenity of Nobe Duse

## ODea, Thamas E. (tyes)

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## Odello, Betty (15em

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Ogar, Oevege W. (19es)
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## O'Manlon, Lynese (tyeb)

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## ONoil: Robert B. (13e9)

Apfor follonion
MA. Cxiflome Ulimeriry
MA, Symoxe Univeniy
Ona, Mobert K, (1381)
Ahare for Chmity
BS, Unienicy of Calstrina Las Auphs
MS, Cillomin Saur Uhivening Lang Bach
Pi.D, Univeniy of Cationit, Inise
Onborne, Philip R (1508)
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Ouhime, Dwifd J. (T997)
Anlaw Nophar fot
MA, An Cemar Calire of Daip
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Pandey, Caral 1. (1921)

M. Unientry of Crifmia, Lea Aapla

MA, PhD, Uliveriy of
Soutlen Caliomis
Partington, Alfrod 億 (f19m)
Ampar of Ahien Nikititrein M(A Unimeniy of Mand CPA. Roid wad Callomin
Pawlickl, Michael 2 . (1990)
Aphiur of Mair
MA. Sate Ukimnin of New Mod at Binghanam MA, Uureniry of Calionisis Las Aopla

## Pearod, Richard C. (15n1)

Byour flating
BA. MA, Reiplam Yoong Ulivenity
Petersen, Lyane K. (1975)
Anfour of Axthelg.
BA. MLA, Calitimin Sant Univering Nortvidyr Ph.D. Calsomia Gonduar lintinutr

## Philese Elaise E. (1seis)

Ahfrow of Morive
BSN. Cue Whaten Rexpe Unimnity
MN, Univerily of Calfonia,
Lea Angrea

Pheenix, David D. (1ses)

BA. M.A. EdS, Uhienity ef Norals, lime
Piama, Stephen Paul (1975)
Thphar of Manir
Dparnes Chipperves. Mink
BM, M.M. thineriry of
Soviken Clifoni
Pickend, Dean (1983)
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A. Caliownia Sare Civiveniry, Len Aeprio

MN. Llemenery él Culioma, Ien Aeplo
Progersan, Bernardine S. (1976)
Mharer of Montid?
BA. Unimenity af Cablonnis. Borlery

Putanm, Giane E, (19es)
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Dpenme Chipmas Thuer
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Putnam, Thomas C. (1902)

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ThD. Uhireniry of Seuchen Caltientur
Risaander, Elizabeth A.(1501)




## Rotis. Floresce K. (1975)

Ayfar of Lihug Sireve
Depermes Cherpmis. Livog
M, Uhinnig of Clificina, Les Agples
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Roneny, Colleen (1975)
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## Tosdatt Thamas (1900)


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Audin, Brenda (19ss)
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BA. Thiersir f Calíria, La Anplo
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Anssell, William IH. (1980)
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Sanches, Mumberfo (ixe6)

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Schlopperbach, Peter M. (tyes)
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Seigel, Devid (1975)
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Shapire, Leland S. (1975)
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 Seall Acimul Detiun
Sharpe, Keneeth 1 (1984)
Ampar of Brownot
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## Shell, Eileen T. (197m)


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## Shephend. Henery B. (1970)

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Shorman, Arther A. (190t)
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## Siever, Patricia Q. (198))

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Shifuore, Michard B. (1975)
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Small, Laurence (1974)
Apfar of Menhmatio
BA. Uhivering of Caliveria, La Anpron
MS, Calfomis Sant Univenios Nombide.
Smetrer, Romald D. (1981)

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Solomon, Marcia N. (1976)
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MEd, Joha Hepelin Univeniry
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South, Richand W. (1976)
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Stanley. Kenneth (1306)

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Teyloe, Rowan S. (TSEA)
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Thamas. Carmalth (1995)

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Thomas, Lauise B. (1975)
Nopher a/Nunivt
fis Whaingmen fatr Collop
M.S. Univenicy af Colorndo

## Thomsen, Mary Joan M. (1984)

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## Thamsen, Terry ftscti

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MS. Talane Ueirerify

## Trinchars, Bart L. (1368)

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Waldron, Jint R (1921)
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Warres James A. II (1970)
Amprer of Mheir
BA. Universer of Californa, Les Angries M.M. Univinury of Southem Califomia

## Wechaler, Ronald (192)

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AS. Lat Aepries Prese Collgge Clus A Wictional Condential, Univericy of Calfornis Lan Aapries
Weisec, Marian 5. (1963)
Averuer of Mpical Rivcatim
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MA. Mils Calcy

## Wolss. Barad (t905)

Aphour of Pyohlyo
BK, Unimnitr of Californa, Beiariy
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## Wells, Raymond A. (1965)

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## Whalen, Paul L (1985)

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## White, Elirabeth E. (1sez)

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Willians, Sheila M. \{1980|
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## Wituman, Darlese K. (1972)

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## Tamada, Kataura (1983)

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Yodec, Kathie A. (1988)
Ayprier of Makmeurint
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## Yoshtwara, Bruce W. (1985)

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## Zitnolberger, John E (1982)

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## EMERTI

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Carrila, A. Aruandar 1964-1599; Profower of Art
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Paffer Ene E1 196-1982;
Phfosor of Bainno Ndminitranion
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Rash hame F. 1953-904: Prefruit of Plipas
Ravenk Hetert 1958-1970:1978-1985 Reidere of the Cedlopi A mxiure hifour of Esplath
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Menil, Jopk 1971-1985. Phint eflomeal fiertion
Ridhenk Juno R. 1986-1991; Tintesser of Meptoligy
Richants. Maken G: 1NG.1980 Mefour of Wertimel Fiderion
Ropers Ruly R4 1970.1980: Amociutr Piofrisu of Naning
Rowmak, Erias 1974-195s
 Dineme Canpas Chatmercenm
Raven, Wiliun L 197619 st, Anvirase Nofener ef Madernutio


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Romarecig, Aumn B: 1961-1986 Pmofane of Maic
Rom D. Lee 1571-19\% Den Achlet Afin
Role Martis 1987.1976 Thufoar of Malkenita
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 halowat A Amul Soinar
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Slus, Wiam Lit 1958-19954 Mifows of Beturia
Shelibe. M. Sapber 1975-1988 Consinmo Instminnal Rewash
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Sermens Devid E/EA 19C6-1596 Rufowe of Pitiosoply
Stive, Commar R: 1963.198s: Cinnelie
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Smith Dinaly A-1992.19\%2 Tuffusc of Tlainnu Ad́minimution
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Whoa Ciasir Edeark 1\%64-177\% Mofenor of Burisen
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Zridin, Hetker: 1999-1999. Councher Phower of Bhexaine

## GLOSSARY OF TERMS

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