2022-23 CATALOG

SPRING

ADDENDUM

Yuba College

PROGRAMS & COURSES

Accounting

(See BUSINESS)

Administration of Justice

Administration of Justice offers academy, degree, and certificate programs designed for entry into law enforcement, corrections, and related fields, and for already employed persons to further themselves academically and vocationally.

Yuba College offers:

- Academies for direct entry into employment. All academies and in-service training are P.O.S.T. and/or S.T.C. certified, meeting California State regulations for law enforcement.
- An Associate in Science Degree Program for students planning to enter law enforcement, corrections, or a related area after two years of course work (see specific degree requirements).
- A Transfer Program intended for students wishing to pursue a bachelor's degree.
- Inservice programs providing specific courses suited to the individual needs of those currently employed by a criminal justice agency.

Administration of Justice and Corrections Programs

Upon successful completion of the required training program, an individual will receive P.O.S.T. (Peace Officer Standards and Training) and/or S.T.C. (Standards of Training for Corrections) certification. Rosters are submitted to these State agencies which include individual names, agency affiliation (if applicable), hours of training, and State-issued control numbers to verify law enforcement certified topics and dates of completion. A course can be certified with 9 to 880 hours of training. Both State agencies require CPT (Continued Professional Training) every two years for P.O.S.T. and annually for S.T.C. for anyone working in a law enforcement environment.

Academies

Employment in law enforcement or corrections usually requires completion of a related academy. Yuba College offers a variety of academies each year:

Students are encouraged to contact the Administration of Justice Department Office at Yuba College for current information regarding academy enrollment or employment requirements or for additional information about the courses and programs.

ADMINISTRATION OF JUSTICE

ASSOCIATE IN SCIENCE FOR TRANSFER

The Associate of Science in Administration of Justice for Transfer degree prepares students for upper division coursework for a bachelor's degree in criminal justice. By design of curriculum, students will be able to describe the individual functions and components of the modern criminal justice system; use technology concepts of legal research to locate, and discuss the content of statutory and case law; analyze criminology factors that contribute to the cause of criminal behavior, reoccurrence of recidivism, and strategies and practices established for the control of crime. In addition, this program encompasses ethical practices, standards and expectations within the entire criminal justice system.

Proper selection of curriculum electives further allows students to study other academic disciplines, such as chemistry or biology, psychology, sociology, public administration and computer science. For example, if you have an interest in forensic anthropology, you may choose chemistry or biology as important electives to consider.

To earn this AA-T degree, students must meet the following Associate in Arts Degree for Transfer requirements (pursuant to SB 1440 law):

- Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University.
- The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education Breadth Requirements.
- A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
- Obtainment of a minimum grade point average of 2.0.
- Earn a grade of "C" or better in all courses required for the major or area of emphasis.

Students who complete this program should be able to:

1. Effectively use language and non-verbal communication consistent with and appropriate for application in the Criminal Justice System through classroom discussion, exercises and written assignments.
2. Demonstrate respect and acceptance for differing opinions, feelings and, values of others through the development of listening skills that promote ethical and equitable application of Criminal Law through classroom discussion, exercises and written assign
3. Evaluate and analyze information when addressing issues within the criminal justice system, draw reasonable conclusions that encompass criminal law, social expectation and ethical standards through classroom discussion exercises and written assignments.

REQUIRED COURSES		UNITS
AJ 10	Introduction to Criminal Justice System	3
AJ 11	Criminal Law	3

Area A - Select 6 units from the following:

AJ 13	Evidence	3
AJ 14	Criminal Justice Process	3
AJ 15	Criminal Investigation	3
AJ 19	Multicultural Communities and the Justice System	3

Area B - Select at least 6-7 additional units from the following courses, OR any CSU transferable Administration of Justice lower division course OR courses outside the Administration of Justice discipline that are articulated as lower division major preparation for the Criminal Justice or Criminology Major at any CSU.

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SOCIL 1	Introduction to Sociology	3
PSYCH 1A	General Psychology	3
STAT 1	Introduction To Statistical Methods	4

TOTAL UNITS REQUIRED FOR DEGREE MAJOR 18-19

Students earning an AA-T/AS-T degree must complete 60 semester units of coursework eligible for transfer to the CSU including the CSU GE-B or IGETC (CSU version), all courses in the major with "C" or better or "P" (pass) grades, and achieve a minimum transferable cumulative GPA of 2.0.

BASIC POLICE ACADEMY

ASSOCIATE IN SCIENCE

The purpose of the Administration of Justice program is to provide students with a comprehensive introduction to the field of law enforcement, corrections, special investigations, and other public safety related fields. The program offers Associate Degrees, Academies, and Continuing Education/Professional Development courses. The program serves students pursuing a transfer degree, students seeking entry level employment following completion of a state certified academy, and students currently employed who need additional training to stay current and to qualify for promotional opportunities in their field of employment. The Administration of Justice Program operates with the cooperation and participation of local criminal justice agencies. All instructors in the program have experience in the criminal justice field. The instructors and staff are committed to preparing students for academic success and providing relevant training and education for students and employers in the community. For the most part, program academies and certified courses are required by state law for entry-level employment in law enforcement, corrections, and public safety related fields. The AJ program fills an essential training need in maintaining a professional partnership with state agencies such as the California Commission on Peace Officer Standards and Training (POST) and the Board of State and Community Corrections. (BSCC - STC) In addition to the mandated entry –level training certifications, the State of California also requires regular updated or professional development/in-service training for employees working in the public safety sector.

Students who complete this program should be able to:

1. Demonstrate an understanding of local, state, and federal criminal justice agencies, describe their organizational structure, and recognize the role of each agency within the criminal justice system.
2. Demonstrate knowledge and understanding of the criminal justice process; the sequential order of criminal proceedings, and the role of each subsystem within the criminal justice system.
3. Be able to describe law enforcement's responsibilities to the community, factors in crime causation, the social implications of crime and communication barriers between the system and the community.
4. Demonstrate the ability to recognize criminal behavior and be able to identify and apply the appropriate legal action, demonstrating sound judgment based upon a deductive and/or inductive analysis.
5. Demonstrate the ability to correctly analyze relevant legal issues as outlined in published judicial opinions; identifying the main issue(s) and determining the effect of the court's decision.
6. Demonstrate an understanding of the protections provided by the US and the California Constitution against unreasonable searches and seizures of people, houses and personal property.
7. Demonstrate the ability to identify and apply the key elements for developing trust between community partners, including: truth, respect, understanding, support, and teamwork.
8. Demonstrate an understanding of the need for respect and the acceptance of differing opinions, feelings, and values of others through the development of listening skills that promote ethical and equitable application of criminal law.
9. Demonstrate the ability to effectively use oral, written and non-verbal communication appropriate for application in the law enforcement field through classroom discussion, exercises and written assignments.

REQUIRED COURSES		UNITS
AJ 50A	Reserved Training Module III	5.5
AJ 50B	Reserve Training Level III Module	2.5
AJ 51A	Reserve Training Level II Module	8
AJ 51B	Reserve Training Module II	5
AJ 52A	Reserve Training Level I Module	13.5
AJ 52B	Reserve Training Level I Module	2
AJ 52C	Reserve Training Level I Module	1

TOTAL UNITS REQUIRED FOR DEGREE MAJOR 37.5

Students earning an AA/AS degree must complete a minimum of 18 units of General Education requirements, In addition to the program units listed here. Students must complete a total of 60 degree applicable units to earn an AA or AS. Basic Police Academy majors are waived the multicultural graduation requirement and the health requirement. Please see your counselor for additional information.

CORRECTIONS

ASSOCIATE IN SCIENCE

Upon successful completion of the required training program, an individual will receive P.O.S.T. (Peace Officer Standards and Training) and/or S.T.C. (Standards of Training for Corrections) certification. Rosters are submitted to these State agencies which include individual names, agency affiliation (if applicable), hours of training, and State-issued control numbers to verify law enforcement certified topics and dates of completion. A course can be certified with nine to 880 hours of training. Both State agencies require Continued Professional Training (CPT) every two years for P.O.S.T. and annually for S.T.C. for anyone working in a law enforcement environment.

Students who complete this program should be able to:

1. Explain the functional relationship between Corrections and law Enforcement.
2. Analyze complex situations, employ a reasonable plan for resolution and devise methods for appraisal of desired outcomes as they apply to Correctional Science.
3. Demonstrate an understanding of Corrections to difficulties in society, based on factors from the neighborhood, the home, and the individual.

REQUIRED COURSES		UNITS
AJ 11	Criminal Law	3
AJ 20	Juvenile Law and Procedures	3
AJ 30	Introduction to Corrections	3
AJ 31	Criminal and Delinquent Behavior	3
AJ 33	Introduction to Correctional Counseling	3
AJ 34	Correctional Treatment Programs	3
Complete 3 units from the following:		
AJ 10	Introduction to Criminal Justice System	3
AJ 14	Criminal Justice Process	3
AJ 19	Multicultural Communities and the Justice System	3
AJ 21	Narcotics and Drugs	3
HUSEV 10	Introduction to Human Services	3
Any Psychology or Sociology course		3

TOTAL UNITS REQUIRED FOR DEGREE MAJOR 21

Students earning an AA/AS degree must complete a minimum of 18 units of General Education requirements, the multicultural graduation requirement, and the health requirement, in addition to the program units listed here. Students must complete a total of 60 degree applicable units to earn an AA or AS. Please see your counselor for additional information.

LAW ENFORCEMENT

ASSOCIATE IN SCIENCE

The purpose of the Administration of Justice program is to provide students with a comprehensive introduction to the field of law enforcement, corrections, special investigations, and other public safety related fields.

The program offers Associate Degrees, Academies, and Continuing Education/Professional Development courses. The program serves students pursuing a transfer degree, students seeking entry level employment following completion of a state certified academy, and students currently employed who need additional training to stay current and to qualify for promotional opportunities in their field of employment.

The Administration of Justice Program operates with the cooperation and participation of local criminal justice agencies. All instructors in the program have experience in the criminal justice field. The instructors and staff are committed to preparing students for academic success and providing relevant training and education for students and employers in the community.

For the most part, program academies and certified courses are required by state law for entry-level employment in law enforcement, corrections, and public safety related fields. The AJ program fills an essential training need in maintaining a professional partnership with state agencies such as the California Commission on Peace Officer Standards and Training (POST) and the Board of State and Community Corrections. (BSCC - STC) In addition to the mandated entry level training certifications, the State of California also requires regular updated or professional development/in-service training for employees working in the public safety sector.

Students who complete this program should be able to:

1. Effectively use language and non-verbal communication appropriate for application in the Criminal Justice System through classroom discussion, exercises and written assignments.
2. Demonstrate respect and acceptance for differing opinions, feelings, and values of others through the development of listening skills that promote ethical and equitable application of Criminal Law.
3. Identify and apply the key elements for developing trust between community partners, including: truth, respect, understanding, support, and teamwork.
4. Articulate the differences between the major criminological theories of the causes of crime and how those theories relate to policies toward crime and criminal behavior.
5. Demonstrate knowledge and understanding of the criminal justice process; the sequential order of criminal proceedings, and the role of each subsystem within the criminal justice system.
6. Demonstrate an understanding of the American Criminal Justice system and the scope of responsibilities of the various local, state, and federal law enforcement agencies.
7. Recognize criminal behavior and be able to identify and apply the appropriate legal statutes, demonstrating sound judgment based upon a deductive and/or inductive analysis.
8. Describe the systems responsibilities to the community, factors in crime causation, the social implications of crime and communication barriers between the system and the community.
9. Demonstrate knowledge of the rules of evidence, legal definitions, and concepts of evidentiary law; apply basic investigative proficiencies.
10. Analyze and interpret relevant legal issues as outlined in published judicial opinions and Constitutional Law; identifying the main issue(s) and determining the effect of the courts ruling on the admissibility of evidence.

REQUIRED COURSES		UNITS
AJ 10	Introduction to Criminal Justice System	3
AJ 11	Criminal Law	3
AJ 13	Evidence	3
AJ 14	Criminal Justice Process	3
AJ 15	Criminal Investigation	3
AJ 19	Multicultural Communities and the Justice System	3
AJ 78	Investigative Report Writing for the Public Safety Professional	3
TOTAL UNITS REQUIRED FOR DEGREE MAJOR		**21**

Students earning an AA/AS degree must complete a minimum of 18 units of General Education requirements, the multicultural graduation requirement, and the health requirement, in addition to the program units listed here. Students must complete a total of 60 degree applicable units to earn an AA or AS. Please see your counselor for additional information.

ADMINISTRATION OF JUSTICE-BASIC POLICE ACADEMY

CERTIFICATE OF ACHIEVEMENT

The purpose of the Administration of Justice program is to provide students with a comprehensive introduction to the field of law enforcement, corrections, special investigations, and other public safety related fields. The program offers Associate Degrees, Academies, and Continuing Education/Professional Development courses. The program serves students pursuing a transfer degree, students seeking entry level employment following completion of a state certified academy, and students currently employed who need additional training to stay current and to qualify for promotional opportunities in their field of employment. The Administration of Justice Program operates with the cooperation and participation of local criminal justice agencies. All instructors in the program have experience in the criminal justice field. The instructors and staff are committed to preparing students for academic success and providing relevant training and education for students and employers in the community. For the most part, program academies and certified courses are required by state law for entry-level employment in law enforcement, corrections, and public safety related fields. The AJ program fills an essential training need in maintaining a professional partnership with state agencies such as the California Commission on Peace Officer Standards and Training (POST) and the Board of State and Community Corrections. (BSCC - STC) In addition to the mandated entry –level training certifications, the State of California also requires regular updated or professional development/in-service training for employees working in the public safety sector.

Students who complete this program should be able to:

1. Explain appropriate investigative techniques and responsibilities at a crime scene to explain mastery of crime scene management.
2. Identify law enforcement organizational composition to include paramilitary rank structure, methods of police deployment, and resources available to police operations.
3. Explain of the role of the community in a partnership with law enforcement including, but not limited to, interpersonal skills of effective written and oral communication required of a law enforcement officer.
4. Explain the role of the community in a partnership with law enforcement including, but not limited to, the critical thinking required of a law enforcement officer.

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REQUIRED COURSES		UNITS
AJ 58A	Basic Peace Officer Training	23
AJ 58B	Basic Peace Officer Training	5.5
AJ 58C	Basic Police Officer Training	.5
TOTAL UNITS REQUIRED FOR CERTIFICATE		**33.5**

RESERVE OFFICER LEVEL 1

CERTIFICATE OF ACHIEVEMENT

Students who complete this program should be able to:

1. Apply criminology and criminal justice theories, principles and concepts to address real-life situations in the field.

REQUIRED COURSES		UNITS
AJ 52A	Reserve Training Module I	13.5
AJ 52B	Reserve Training Module I	2
AJ 52C	Reserve Training Module I	1
TOTAL UNITS REQUIRED FOR CERTIFICATE		**16.5**

RESERVE OFFICER LEVEL 2

CERTIFICATE OF ACHIEVEMENT

Students who complete this program should be able to:

1. Recognize the importance and practice of legal and ethical behaviors in a professional criminal justice work setting.

REQUIRED COURSES		UNITS
AJ 51A	Reserve Training Level II Module	8
AJ 51B	Reserve Training Module II	5
TOTAL UNITS REQUIRED FOR CERTIFICATE		**13**

RESERVE OFFICER LEVEL 3

CERTIFICATE OF TRAINING

(EFFECTIVE THROUGH FALL 2022, DEACTIVATED SPRING 2023)

Students who complete this program should be able to:

1. Analyze, interpret and evaluate criminological and criminal justice theories, policies, practices and procedures to develop strategies to prevent and control crime.

REQUIRED COURSES		UNITS
AJ 50A	Reserve Training Module III	5.5
AJ 50B	Reserve Training Level III Module	2.5
TOTAL UNITS REQUIRED FOR CERTIFICATE		**8**

COURSES

AJ-10 **3 UNITS**

Introduction to Criminal Justice System

TRANSFERABLE TO CSU AND UC
C-ID: AJ 110
54 LECTURE HOURS

Overview of the history and philosophy of the U.S. justice system; study of the modern criminal justice system and its components, law enforcement, courts, and corrections; identifying the roles of the various professionals within the system and their interrelationships; analysis of legal issues; study of theories of crime causation, punishment, and rehabilitation. (L)

AJ-11 **3 UNITS**

Criminal Law

TRANSERABLE TO CSU AND UC– UC UNIT LIMIT
C-ID: AJ 120
54 LECTURE HOURS

This course provides an analysis of the history, philosophy, and constitutional provisions of criminal law in the United States; study of common law, statutory law, and case law applicable to law enforcement, including exploration of crimes against persons, property, public peace, narcotics, and dangerous weapons. Special emphasis is placed on the classification of crime, the general elements of crime, and the definitions of common and statutory law. This course also includes information on prosecution and defense procedure, including criminal defenses, legal justifications, and burdens of proof. This course utilizes case law and case studies to introduce students to criminal law. (L)

AJ-13 **3 UNITS**

Evidence

TRANSFERABLE TO CSU
C-ID: AJ 124
54 LECTURE HOURS

This course examines categories of evidence and legal rules governing its admission and exclusion in the criminal process; the origin and development of evidentiary law; and the study of both codified evidentiary law and applicable court decisions. Specific topics include, types of evidence, the judicial process, the admission and exclusion of evidence, legal standards of proof, direct and circumstantial evidence, testimonial evidence and witness competency, the hearsay rule and its exceptions, demonstrative evidence, judicial notice, and issues relating to search and seizure. (L)

AJ-14 **3 UNITS**

Criminal Justice Process

TRANSFERABLE TO CSU
C-ID: AJ 122
54 LECTURE HOURS

Analysis of legal processes from pre-arrest through trial and appeal, sentencing, and corrections procedures utilizing statutory law and state and constitutional law precedents. (L)

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AJ-15 **3 UNITS**

Criminal Investigation

TRANSFERABLE TO CSU
C-ID: AJ 140
54 LECTURE HOURS

Addresses procedures and concepts as applied to criminal investigations, including surveillance; crime scene response management; and identification, collection, and processing of physical evidence. Covers U.S. Constitution and Statutory/Case Law; interview/interrogation processes and techniques; identifying information sources; procuring search warrants; serving search warrants; exceptions to the search warrant rule; and court processes. Emphasis is placed on developing the student's capacity to analyze specific situations and identify sound ethical investigative procedures. (L)

AJ-16 **3 UNITS**

Police Operations

TRANSFERABLE TO CSU
54 LECTURE HOURS

Philosophy, functions, organization, duties, and analysis of police operational functions, including public service responsibilities and special police problems. (L)

AJ-19 **3 UNITS**

Multicultural Communities and the Justice System

TRANSFERABLE TO CSU AND UC
C-ID: AJ 160
54 LECTURE HOURS

Examines the complex relationship between multicultural communities and the criminal justice system, analyzing cultural differences and strategies to effectively address crime related issues. Addresses potential societal barriers involving race, ethnicity, gender, religion, sexual orientation, age, social class, culture and evolution of the law enforcement profession in understanding how relationships are developed, maintained and changed to meet ethnic and minority group needs. Additional topics include multicultural representation in law enforcement, cross-cultural communication, community policing, and restorative justice principles. (L)

AJ-20 **3 UNITS**

Juvenile Law and Procedures

TRANSFERABLE TO CSU
C-ID: AJ 220
54 LECTURE HOURS

This course is an examination of the origin, development, and organization of the Juvenile Justice system as it evolved in the American Justice system. The course explores the theories that focus on Juvenile law, courts and processes and the constitutional protections extended to juveniles administered in the American Justice system; organization, function, and jurisdiction of juvenile agencies; processing and detention of juveniles; juvenile case disposition; legal statutes, and court procedures. (L)

AJ-21 **3 UNITS**

Narcotics and Drugs

TRANSFERABLE TO CSU
54 LECTURE HOURS

Analysis of narcotics and drugs, the physical effects of addiction, and the sociological problems of drug abuse. Students will be introduced to the concept of substance abuse and dependence, the definition of licit and illicit drugs, and the pharmacologic, neurologic and physiologic effects of selected substances on the human brain. Political, social and economic factors involved in the supply and demand for drugs will be discussed. Epidemiologic data on the prevalence, incidence, and trends of smoking, alcohol, prescription and other drug dependencies in the U.S. will be covered, as well as risk factors associated with the use and abuse of these substances. Current options for recovery and a survey of local resources will be reviewed. (L)

AJ-30 **3 UNITS**

Introduction To Corrections

TRANSFERABLE TO CSU
C-ID: AJ 200
54 LECTURE HOURS

This course provides a history of and critical analysis of punishment, the various types of punishment, alternatives to punishment, and the impact of punishment on the Criminal Justice System, corrections, a critical examination of the types of correctional institutions and the clients housed in each institution, and an examination of contemporary correctional issues. (L)

AJ-31 **3 UNITS**

Criminal and Delinquent Behavior

TRANSFERABLE TO CSU
54 LECTURE HOURS

An introduction to the study of criminology and crime causation; explores the causes of crime and delinquency by analyzing various social, psychological, and cultural factors. This course introduces the student to the major types of criminal behavior, patterns of career offenders, and factors which contribute to the production of criminality and delinquency. (L)

AJ-33 **3 UNITS**

Introduction To Correctional Counseling

TRANSFERABLE TO CSU
54 LECTURE HOURS

History, objectives, and theories of counseling relevant to corrections; common methods, techniques, and interventions of counseling; understanding the client as a person. A basic course for students planning to enter or who are already employed in the Corrections field. (L)

AJ-34 **3 UNITS**

Correctional Treatment Programs

TRANSFERABLE TO CSU
54 LECTURE HOURS

The study of correctional treatment programs concerning juveniles and adults, in both the casework setting and in a custody institution. This is a basic course for students planning to enter or who are already employed in the corrections field. (L)

AJ-50 **8 UNITS**

Regular Basic Police Academy Modular Format- Module III

130 LECTURE HOURS
58 LAB HOURS

The Basic Course- Modular Format is delivered in a three-level instructional sequence. Successful completion of the Module III, Module II, and the Module I modules constitutes satisfaction of the Basic Course training requirements for peace officer in the State of California. (L)

Entrance Requirement(s): DOJ Fingerprint, Medical History and Medical Clearance; Admission through Administration of Justice application process.

AJ-51 **13 UNITS**

Regular Basic Police Academy Modular Format- Module II

217 LECTURE HOURS
56 LAB HOURS

The Basic Course-Modular Format is delivered in a three-level instructional sequence. Successful completion of the Module II, II, and I modules constitutes satisfaction of the Basic Course training requirements for peace officer in the State of California. (L)

Prerequisite(s): AJ-50

Entrance Requirement(s): DOJ Fingerprint, Medical History and Medical Clearance; Admission through Administration of Justice application process.

AJ-52 **16.5 UNITS**

Regular Basic Police Academy Modular Format- Module I

237 LECTURE HOURS
184 LAB HOURS

The Basic Course- Modular Format is delivered in a three-level instructional sequence. Successful completion of the Module II, II, and I modules constitutes satisfaction of the Basic Course training requirements for peace officer in the State of California. (L)

Prerequisite(s): AJ-51

Entrance Requirement(s): DOJ Fingerprint, Medical History and Medical Clearance; Admission through Administration of Justice application process.

AJ-53 **5.5 UNITS**

POST Requalification Course

86 LECTURE HOURS
58 LAB HOURS

This course fulfills the POST training requirements for students seeking to extend their POST law enforcement certification. It is designed for students who have successfully completed a POST-certified Regular or Specialized Investigators' Basic Course, the Basic Course Waiver (BCW) process, or have three-year or longer break in qualifying employment from a California law enforcement employer for which the position required completion of the Regular Basic Course (RBC) or Specialized Investigators' Basic Course (SIBC) training. (L,C)

AJ-53 **6.5 UNITS**

POST Requalification Course (Active SP2023)

96 LECTURE HOURS
64 LAB HOURS

This course fulfills the POST training requirements for students seeking to extend their POST law enforcement certification. It is designed for students who have successfully completed a POST-certified Regular or Specialized Investigators' Basic Course, the Basic Course Waiver (BCW) process, or have three-year or longer break in qualifying employment from a California law enforcement employer for which the position required completion of the Regular Basic Course (RBC) or Specialized Investigators' Basic Course (SIBC) training. (L,C)

Entrance Requirement(s): Student must have completed a police academy in California or in another state prior to taking this course.

AJ-54A **1.5 UNITS**

Peace Officer Orientation

33 LECTURE HOURS
7 LAB HOURS

This course covers 832p.c.: Laws of Arrest, search and seizure, communications, arrest and control techniques. Meets Peace Officer Standards and Training (P.O.S.T.) and Standards and Training for Corrections Program (S.T.C.). (L)

AJ-54B **0.5 UNITS**

Peace Officer Orientation-Firearms

14 LECTURE HOURS
10 LAB HOURS

This course covers 832 p.c.: Firearms Training. Meets Peace Officer Standards and Training (P.O.S.T) and Standards and Training for Corrections Program (S.T.C). Recommended course for students taking the correctional officer core course. (L)

Entrance Requirement(s): DOJ Fingerprint Clearance

AJ-55 **27.5 UNITS**

Special Investigators Basic Course

453 LECTURE HOURS
138 LAB HOURS

This course fulfills the POST training requirements for some California Special Investigators as specified in Commission Regulation 1005, including investigators for the State of California, The Supreme Court of California, Welfare, Welfare Fraud, Social Services, Human Services and specified investigators of the District Attorney. The course focuses on preparing students for investigative positions through hands on experience, including weapons training, role-play scenarios, arrest and control, case management and surveillance. (L,C)

Entrance Requirement(s): Students must possess a valid California Driver's License as well as proof of insurance. Students must complete the POST PELLET B exam, earning an advisory score. Students must NOT have a Federal or State felony conviction. DOJ clearance is required to possess a firearm. Students must obtain a medical clearance for physical activity.

AJ-60 **2 UNITS**

Field Training Officer Basic Course

40 LECTURE HOURS

This course fulfills the POST training requirements for Field Training Officers (FTO'S) and personnel with the responsibility of training law enforcement officers. It focuses on the core functions of an FTO which are to teach, evaluate, and document (TED). The instructional techniques used focus on the modern science of learning and specific techniques to build the student's teaching skills. Students are given opportunities to work on daily observation reports, remedial training plans, and to apply the standard evaluation guide rating scale. They are given several opportunities in the course to teach, counsel and evaluate mock trainees and complete related reports. Other topics include legal and liability issues for California Peace Officers.

Entrance Requirement(s): Currently employed at a Law Enforcement Agency. Registration requires approval through AJ Dept.

AJ-61 **1 UNIT**

Field Training Officer Update

24 LECTURE HOURS

This course fulfills the POST training update requirements for current Field Training Officers (FTO). It focuses on the most current training in the core functions of an FTO, which are to teach, mentor, evaluate and document. The instructional techniques used focus on the modern science of learning and specific techniques used to build the student's teaching skills. Students are given the opportunity to work on observation reports and training plans while gaining an understanding of a standardized evaluation process. (L,C)

Entrance Requirement(s): Attendees must have attended and passed a POST approved Basic Field Training Officer Course.

AJ-62 **1 UNIT**

Perishable Skills

16 LECTURE HOURS
8 LAB HOURS

This course fulfills the POST training requirements within perishable skills that every officer must receive every 24 months. It focuses on strategic communication, driver safety, proper use of force and arrest and control procedures. The instructional techniques used focus on the modern science of learning. Students are given a number of scenarios where they must make prompt decisions in responding to a situation. Those decisions include the proper level of force to be used, how the student will communicate with the involved party, driving tactics to be used and whether or not to arrest the involved party. All scenarios and decisions will be debriefed and discussed. (L,C)

Entrance Requirement(s): Attendees must have attended and passed a POST approved Basic Field Training Officer Course.

AJ-65 **4 UNITS**

Standards and Training for Corrections Supervisor Core Course

80 LECTURE HOURS

This course provides Standards and Training for Corrections (STC) training curriculum for newly promoted probation or correctional supervisors. Topical areas covered during the 80 hours of instruction include: role identification, leadership styles, values, ethics, motivating employees, assertive leadership, administrative support, employee performance appraisal, employee relations, liability issues, discipline, counseling, planning and organization, communications, investigations, report review, problem solving, training and role transition.

Entrance Requirement(s): Must be a current Probation Officer who either currently holds a supervisor's position or is preparing for a future supervisor position.

AJ-70 **9 UNITS**

Correctional Officer Core Course

157 LECTURE HOURS
30 LAB HOURS

Theory and application of Corrections Officer Training. Meets CA Dept. of Corrections and Rehabilitation requirements. Units of course study include: Criminal Justice System, Codes and Statutes, professionalism/ethics, classification of inmates, contraband/evidence, booking and receiving, releasing, maintaining security, report writing, supervising inmates, distribution of supplies, monitoring health, management of inmate workers, screening visitors and mail, transport of outside facilities, emergency procedures, testifying in court and physical tasks. (L)

Entrance Requirement(s): Medical History and Medical Clearance; Admission through Administration of Justice application process.

AJ-78 **3 UNITS**

Investigative Report Writing for the Public Safety Professional

54 LECTURE HOURS

Investigative report writing for the public safety professional relative to law enforcement, probation, correctional institutions, parole activities, and private security services. Includes practical experience in preparing field notes, letters, memorandums, and official administrative reports. Examines the role of reports in civil litigation, criminal prosecution, and the presentation of court testimony. Emphasis will be placed on recognizing the characteristics of good report writing and addressing the common report writing problems, including use of correct terminology, grammar, spelling and composition. (L) Grades are P/NP Option.

AJ-200 **9 UNITS**

Probation Officer Core Course

161 LECTURE HOURS
28 LAB HOURS

Designed to provide the basic concepts and skills for "entry level" Probation Officer, including overall mission, role and function in the California Juvenile and Adult Justice System; major tasks and responsibilities; and competency in various knowledge and skill requirements. Meets California Corrections Standards Authority, Division of Standards and Training for Corrections (STC) requirements for "entry level" Probation Officers. (L)

Entrance Requirement(s): Medical History and Medical Clearance. Admission through the Administration of Justice application process.

AJ-202 **7 UNITS**

Juvenile Correctional Officer Core Course

114 LECTURE HOURS
54 LAB HOURS

Designed to provide the basic concepts and skills for "entry-level" Juvenile Corrections Officer, including overall mission, role and function in the California Juvenile Justice System; major tasks and responsibilities; and competency in various knowledge and skill requirements. Meets California Corrections Standards Authority, Division of Standards and Training for Corrections (STC) requirements for "entry-level" Juvenile Corrections Officers. (L)

Entrance Requirement(s): Medical History and Medical Clearance; Admission through Administration of Justice application process.

Agriculture and Plant Science

At Yuba College we believe these are very exciting times for agriculture, agricultural business and for rural America. Within Yuba and Sutter Counties sustainable and small-scale conventional farming and ranching are of increasing relevance. Agriculturists are becoming more aware of the need for scientific farming to improve productivity and profitability. The close, friendly nature of Yuba College, combined with an integrated agricultural curriculum and remarkable access to hands-on education, creates a fertile learning environment for our students and the agriculture industry we serve.

Career opportunities in agriculture and plant science are many and varied. They include jobs in the food, fiber, and nursery industries; jobs in air, land, water, and natural resources; as well as jobs in

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pest management, veterinary technology, environmental regulation and protection; biotechnology; accounting, and farm management. Students planning to transfer to a four year learning institution should contact a counselor to ensure correct course placement. As a pioneer in innovative curriculum programs for the California Community College system, Yuba College has developed partnerships with local community agricultural businesses and through joint input has developed a curriculum to help enhance and expand the local agriculture sector.

Today's expanding agriculture arena focuses on production methodology that enhances existing resources. The Yuba College Agriculture Program is about the local farming community. Our Agricultural Program provides both the small business and technical skills needed to develop and manage a profitable, environmentally sound and community-based small farm or agricultural business.

Students use their Yuba College education to develop farms, nurseries, green houses and ranches, while others seek employment at established agricultural operations. Employment opportunities are found elsewhere through schools, parks and environmental centers. Jobs are available with non-profit organizations focusing on farmer advocacy. The agriculture degree is also useful for persons desiring to serve in the Peace Corps or other humanitarian volunteer agencies.

Students who complete this program should be able to:
1. Identify and apply the principles and techniques of modern crop, soil, and livestock management.
2. Demonstrate scientific evaluation skills including interpreting graphs/data, as well as be proficient in laboratory procedures.
3. Describe fundamental practices in agriculture for livestock, crops, and soil health and sustainability.

AGRICULTURE

ASSOCIATE IN SCIENCE

Career opportunities in agriculture and plant science are many and varied. They include jobs in the food, fiber, and nursery industries; jobs in air, land, water, and natural resources; as well as jobs in pest management, veterinary technology, environmental regulation and protection; biotechnology; accounting, and farm management. Students planning to transfer need to see a counselor to ensure they are taking the correct courses.

Students who complete this program should be able to:
1. Identify and apply the principles and techniques of modern crop, soil, and livestock management.
2. Demonstrate scientific evaluation skills including interpreting graphs/data, as well as be proficient in laboratory procedures.
3. Describe fundamental practices in agriculture for livestock, crops, and soil health and sustainability.

REQUIRED COURSES		UNITS
AG 7	Agriculture Entrepreneurship	3
AG 45	Principles of Animal Science	3
AG 45A	Principles of Animal Science Lab	1
ENVHR11	Irrigation Design and Installation	3
PLSCI 20	Principles of Plant Science	3
PLSCI 20A	Principles of Plant Science Lab	1
PLSCI 22	Introduction to Soils	3
PLSCI 22A	Introduction to Soils Lab	1

Complete 12 units selected from the following:

ACCT10A	General Accounting	4
AG4	Introduction to Agricultural Business	3
AG60	Preparing for 21st Century Agricultural Workforce	3
AG65	Introduction to Agricultural Technology	3
AG70	Precision Farming System	3
GNBUS30	Business Computer Applications	3
INTERN45A	First Semester Internship	1-8
VETT8	Large Animal Care and Nursing	3
VETT91	Veterinary Assisting	3
TOTAL UNITS REQUIRED FOR DEGREE MAJOR		**30**

Students earning an AA/AS degree must complete a minimum of 18 units of General Education requirements, the multicultural graduation requirement, and the health requirement, in addition to the program units listed here. Students must complete a total of 60 degree applicable units to earn an AA or AS. Please see your counselor for additional information.

AGRICULTURE TECHNOLOGY

ASSOCIATE IN SCIENCE

The degree in Agriculture Technology introduces students to the innovative ways that technology is used in agriculture today. Students will learn real world application for GPS/GIS, precision farming equipment, drones and related data collection software. Additionally students will explore fundamental agronomic relationships between land and livestock and integrate those with advanced agriculture technology. These students will also recognize how agriculture technology applications positively impact the economic stability of agriculture enterprises and their workforce.

Students who complete this program should be able to:
1. Identify applicable practices that reduce the impact of agriculture on natural ecosystems.
2. Demonstrate basic skills used in day to day precision farming operations such as global positioning systems, data collection software and unmanned aerial vehicles.
3. Employ methods utilizing advanced agriculture technology to allow for a more profitable, efficient and safer agriculture enterprise.
4. Model those attributes necessary for gainful employment in the field of agriculture technology.

REQUIRED COURSES		UNITS
AG 7	Agricultural Entrepreneurship	3
AG 45	Principles of Animal Science	3
AG 60	Preparing for 21st Century Agriculture Workforce	3
AG 65	Introduction to Agriculture Technology	3
AG 70	Precision Farming Systems	3
GNBUS 30	Business Computer Applications	3
INTERN 45A	First Semester Internship	1
PLSCI 20	Principles of Plant Science	3
PLSCI 22	Introduction to Soils	3
TOTAL UNITS REQUIRED FOR DEGREE MAJOR		**28**

Students earning an AA/AS degree must complete a minimum of 18 units of General Education requirements, the multicultural graduation requirement, and the health requirement, in addition to the program units listed here. Students must complete a total of 60 degree applicable units to earn an AA or AS. Please see your counselor for additional information.

AGRICULTURE TECHNICIAN

CERTIFICATE OF ACHIEVEMENT

The agricultural technician certificate provides current students and graduates with the base knowledge and skills necessary to be successful in the evolving agriculture industry. The certificate will increase competencies in precision agriculture technologies and equipment, plant and soil science, hydrology and agriculture business. Completing the certificate qualifies the student to enter the professional job market in the public sector as well as the agriculture industry, in such jobs as laboratory technician, agriculture UAV (drone) pilot, crop consultant, farm or ranch manager, greenhouse manager, food lab

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technician, safety technician, soil technician, livestock producer, crop or orchard farmer, and nursery manager, among many others.

Students who complete this program should be able to:

1. Connect basic agronomic fundamentals (soils, crops, water) to the needs of the industry in multiple capacities.
2. Describe and apply computer based skills gained in advanced farming technologies and business application that increase efficiency in farming practices.
3. Explain essential methods of daily or ongoing farm/ranch operation and maintenance.
4. Demonstrate job readiness skills to obtain preferred employment in this progressive field upon graduation.

REQUIRED COURSES		UNITS
AG 4	Introduction to Agriculture Business	3
AG 60	Preparing for 21st Century Agriculture Workforce	3
AG 65	Introduction to Agriculture Technology	3
AG 70	Precision Farming Systems	3
GNBUS 30	Business Computer Applications	3
INTERN 45A	First Semester Internship	1
PLSCI 20	Principles of Plant Science	3
PLSCI 22	Introduction to Soils	3
TOTAL UNITS REQUIRED FOR CERTIFICATE		**22**

COURSES

AGRICULTURE

AG-4 **3 UNITS**

Introduction to Agricultural Business

TRANSFERABLE TO CSU
54 LECTURE HOURS

Provides a basic understanding of the business and economics of the agricultural industry; an introduction to the economic aspects of agriculture and their implications for the agricultural producer, consumer and the food system; management principles encountered in the day-to-day operation of an agricultural enterprise as they relate to the decision making process.

AG-7 **3 UNITS**

Agricultural Entrepreneurship

TRANSFERABLE TO CSU
54 LECTURE HOURS

Principles of establishing and managing a small business in agriculture, including the preparation of a business plan; emphasis on goal-setting, types of agriculture business organizations, obtaining licenses and permits, financing options, accounting aspects, legal requirements, managing the agriculture enterprise, and other aspects in agricultural entrepreneurship. (L,M)

AG-45 **3 UNITS**

Principles of Animal Science

TRANSFERABLE TO CSU AND UC
C-ID: AG-AS 104
54 LECTURE HOURS

A scientific approach to the livestock industry encompassing aspects of animal anatomy, physiology, nutrition, genetics and epidemiology. Emphasis on the origin, characteristics, adaptations and contributions of livestock to the modern agriculture industry. Field trips may be required.

AG-45A **1 UNIT**

Principles of Animal Science Lab

TRANSFERABLE TO CSU AND UC
54 LAB HOURS

Laboratory to accompany Principles of Animal Science (AG 45). A scientific lab approach to the livestock industry encompassing aspects of animal anatomy, physiology, nutrition, genetics and epidemiology. Experimental design and reporting, animal dissections, basic animal handling and husbandry practices, recognition of animal health, and use of biotechnology in animal science will also be addressed. (L,M,C)

Co-requisite: AG-45

AG-60 **3 UNITS**

Preparing for 21st Century Agricultural Workforce

54 LECTURE HOURS

Students learn to critically evaluate and assess the agricultural job market and jobs in the future as it relates to career field opportunities. Students will learn how to identify opportunities and evaluate skills, interests, and identify training and/or education pathways through agriculture career explorations.

AG-65 **3 UNITS**

Introduction to Agriculture Technology

54 LECTURE HOURS

An analysis of current and trending technologies and basic trades used in agriculture industry today. Emphasis on basic mechanical skills, basic electricity, instrumentation, automation, welding, machining, process improvement, basic drafting, construction and safety management. Emphasizes a proactive approach to project planning, problem solving, and thinking critically.

AG-70 **3 UNITS**

Precision Farming Systems

54 LECTURE HOURS

Provides a background in the tools of precision farming, including: GPS, GIS, VRT, precision planters, yield monitoring, robotics and drones, and their use on modern farms. Previews basic functions and provides practical experience with hands on computer activities in several disciplines. Data management and evaluation will also be covered. Basic drone maneuvers will be covered utilizing simulator software.

COURSES

PLANT SCIENCE

PLSCI-20 **3 UNITS**

Principles of Plant Science

TRANSFERABLE TO CSU AND UC
C-ID: AG-PS 106
54 LECTURE HOURS

Principles of plant growth including structure, growth processes, propagation, physiology, growth media, and biological competitors.

PLSCI-20A **1 UNIT**

Principles of Plant Science Lab

TRANSFERABLE TO CSU AND UC
C-ID: AG-PS 106L
54 LAB HOURS

Lab course designed to complement PLSCI 20. Topics include microscope use, internal and external plant structures, photosynthesis, respiration, and other aspects of plant growth and development.

Co-requisite: PLSCI-20

PLSCI-22 **3 UNITS**

Introduction To Soils

TRANSFERABLE TO CSU AND UC
C-ID: AG-PS 128L (PLSCI 22 AND PLSCI 22A)
54 LECTURE HOURS

Physical, chemical and biological properties of soils as related to plant growth and soil formation; the study of soil development, classification and characteristics; soil use and management including erosion, moisture retention, structure, cultivation, organic matter and microbiology.

PLSCI-22A **1 UNIT**

Introduction To Soils Lab

TRANSFERABLE TO CSU AND UC
C-ID: AG-PS 128L (PLSCI 22 AND PLSCI 22A)
54 LAB HOURS

Laboratory to accompany Introduction to Soils (PLSCI 22). Physical, chemical and biological properties of soils as related to plant growth and soil formation. Includes the study of soil development; classification and characteristics; and soil use and management, including erosion, moisture retention, structure, cultivation, organic matter and microbiology.

Co-requisite: PLSCI-22

Anthropology

COURSES

ANTHR-1 **3 UNITS**

Introduction To Physical Anthropology

TRANSFERABLE TO CSU AND UC
C-ID: ANTH 110
54 LECTURE HOURS

This course examines human biological variation within an evolutionary context. It includes an introduction to the history and principles of evolutionary theory; basic human genetics and molecular biology; the anatomy, behavior, and ecology of our closest living relatives, non-human primates; the evolution of the human lineage through the hominid fossil record; variation among modern human groups, past and present; and a brief introduction to forensic anthropology. Throughout the course, attention is paid to the complex interaction between biology, behavior, and culture.

ANTHR-2 **3 UNITS**

Cultural Anthropology

TRANSFERABLE TO CSU AND UC
C-ID: ANTH 120
54 LECTURE HOURS

Investigates the diversity of cultures in regards to language, economics, kinship, art, religion, technology, and cultural universals; functional aspects of culture and cultural change; varieties of customs and institutions of different peoples; significance of human culture.

ANTHR-3 **3 UNITS**

Introduction To Archaeology

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

Introduction to the methods and theories of modern archaeology, including site exploration and interpretation. Patterns of evidence for human behavior from the first humans to the beginnings of written history. (L)

Art and Photography

STUDIO ARTS

ASSOCIATE IN ARTS IN STUDIO ARTS FOR TRANSFER

The Associate in Arts in Studio Arts for Transfer Degree provides students with the opportunity to complete the freshman/sophomore level classes needed for a Bachelor's degree in Studio Arts within the California State University system. Upon completion of the Associate in Arts in Studio Arts for Transfer degree, students will be able to apply foundational knowledge and skill that compose the core content of the first two years of many four-year programs in Studio Arts.

The Associate in Arts in Studio Arts for Transfer Degree (as stated in SB1440 law) requires students to also complete the following:

- Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following
- The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements.
- A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
- Earn a grade of "C" or better in all courses required for the major
- Obtainment of a minimum grade point average of 2.0.
  The student should contact a counselor for more information on program and transfer requirements.

Note that some courses have a pre-requisite (P), co-requisite (C), or both (P/C). Pre-requisites and co-requisites are listed within each course description in this catalog.

Transfer majors designated as AA-T or AS-T are designed for transfer to a similar major at an unspecified CSU. Transfer majors designated as AA or AS are designed for transfer to the corresponding major at a specific CSU, and are based on articulation (See a counselor for more information. Read about the difference between these types of degrees

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at the beginning of the Transfer section of this catalog.)

Students who complete this program should be able to:

1. Articulate and communicate a broad knowledge of both the history and the practice of various studio arts media.
2. Demonstrate a specific practice and personal skill of various studio arts media.
3. Engage in both community and professional practice in the exhibition of personal work.

REQUIRED COURSES		UNITS
ART 1B	History of Art-II	3
ART 6A	Beginning Basic Design	3
ART 6B	Intermediate Basic Design, 3D	3
ART 4A	Drawing and Composition Beginning	3

List A Courses. Select one (3 units):

ART 1A	History of Art-I	3
ART 21	Asian Art History	3
ART 20	African, Oceanic, and Native American Art History Survey	3

List B Courses. Choose three (9 units):

ART 2	Color Theory	3
ART 4B	Drawing and Composition Intermediate	3
ART 9A	Beginning Painting	3
ART 12A	Beginning Ceramics	3
ART 14A	Beginning Sculpture	3
ART 15A	Beginning Printmaking	3
ART 31	Basic Photography	3
ART 36A	Digital Photography	3

TOTAL UNITS REQUIRED FOR DEGREE MAJOR 24

Students earning an AA-T/AS-T degree must complete 60 semester units of coursework eligible for transfer to the CSU including the CSU GE-B or IGETC (CSU version), all courses in the major with "C" or better or "P" (pass) grades, and achieve a minimum transferable cumulative GPA of 2.0.

ART

ASSOCIATE IN ARTS

Art surrounds us every minute of each day. The AA in Art program develops a student's creative ability, independent thinking, and potential to become a visual thinker and effective communicator whether interested in the process of painting, commercial layout, making a functional ceramic piece or company logo. Students will be introduced to art history and hands-on studio experiences in drawing and design as well as ceramics or sculpture. Beyond the foundation requirements of art history and studio experience, students will have an opportunity to explore other studio areas in painting, printmaking, commercial art, and/or photography or further their skills in ceramics or sculpture or further focus on understanding of art history. In advanced courses, students will also be able to produce a portfolio of their work for presentation. These artistic skills and training experiences can lead to a variety of careers in many traditional studio and new digital design fields. These careers range through architecture and interior design, art history and education, museum/gallery curating, interactive design, museum/gallery direction, studio and fine arts, web based graphic and/or commercial art and design, and many other creative job paths that surround these creative professions.

Students who complete this program should be able to:

1. Analyze and communicate a knowledge of Art History
2. Demonstrate skill in design and composition of various art forms
3. Demonstrate specific practice and personal skill in various studio arts media

REQUIRED COURSES		UNITS
ART 1A	History of Art-1 ***OR***	3
ART 1B	History of Art-II	3
ART 4A	Drawing and Composition Beginning	3
ART 6A	Beginning Basic Design	3
ART 12A	Beginning Ceramics ***OR***	3
ART 14A	Beginning Sculpture	3
ART 4B	Drawing and Composition Intermediate ***OR***	3
ART 6B	Intermediate Basic Design, 3-D ***OR***	3
ART 2	Color Theory ***OR***	3
ART 5	Art Appreciation	3

Complete twelve (12) units not already used above from the following courses:

ART 1A	History of Art-I	3
ART 1B	History of Art-II	3
ART 2	Color Theory	3
ART 3A	Women in Art I	3
ART 3B	Women in Art II	3
ART 4B	Drawing and Composition Intermediate	3
ART 5	Art Appreciation	3
ART 6B	Intermediate Basic Design, 3-D	3
ART 8A	Watercolor Painting	3
ART 8B	Watercolor Painting	3
ART 9A	Beginning Painting	3
ART 9B	Intermediate Painting	3
ART 11	Mural Painting	3
ART 12A	Beginning Ceramics	3
ART 12B	Intermediate Ceramics	3
ART 14A	Beginning Sculpture	3
ART 14B	Intermediate Sculpture	3
ART 15A	Beginning Printmaking	3
ART 15B	Intermediate Printmaking	3
ART 18	Beginning Graphic Arts	3
ART 19A	Introduction to Commercial Art	3
ART 19B	Commercial Art: Illustration	3
ART 20	African, Oceanic, and Native American Art History Survey	3
ART 21	Asian Art History	3
ART 29	Individual Problems in Design	3
ART 31	Basic Photography	3
ART 36A	Digital Photography	3
ART 40A	Individual Problems in Watercolor	3
ART 40B	Individual Problems in Watercolor: Advanced	3
ART 41A	Individual Problems in Painting I	3
ART 41B	Individual Problems in Painting: Advanced	3
ART 42A	Individual Problems in Ceramics I	3
ART 42B	Individual Problems in Ceramics II	3
ART 43A	Individual Problems in Printmaking	3
ART 43B	Individual Problems in Printmaking: Advanced	3
ART 44	Individual Problems in Drawing	3
ART 46A	Individual Problems in Sculpture I	3
ART 46B	Individual Problems in Sculpture II	3

TOTAL UNITS REQUIRED FOR DEGREE MAJOR 27

Students earning an AA/AS degree must complete a minimum of 18 units of General Education requirements, the multicultural graduation requirement, and the health requirement, in addition to the program units listed here. Students must complete a total of 60 degree applicable units to earn an AA or AS. Please see your counselor for additional information.

COMMERCIAL ART

ASSOCIATE IN SCIENCE

REQUIRED COURSES		UNITS
ART 2	Color Theory	3
ART 4A	Drawing and Composition Beginning	3
ART 4B	Drawing and Composition Intermediate	3
ART 6A	Beginning Basic Design	3
ART 6B	Intermediate Basic Design, 3D	3
ART 19A	Introduction to Commercial Art	3
ART 19B	Commercial Art: Illustration	3

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Plus 3 units selected from the following:

ART 1A	History of Art-I	3
ART 1A	History of Art-II	3
ART 8A	Watercolor Painting	3
ART 8B	Watercolor Painting	3
ART 9A	Beginning Painting	3
ART 9B	Intermediate Painting	3
ART 12A	Beginning Ceramics	3
ART 12B	Intermediate Ceramics	3
ART 14A	Beginning Sculpture	3
ART 14B	Intermediate Sculpture	3
ART 15A	Beginning Printmaking	3
ART 15B	Intermediate Printmaking	3
ART 31	Basic Photography	3

TOTAL UNITS REQUIRED FOR DEGREE MAJOR 24

Students earning an AA/AS degree must complete a minimum of 18 units of General Education requirements, the multicultural graduation requirement, and the health requirement, in addition to the program units listed here. Students must complete a total of 60 degree applicable units to earn an AA or AS. Please see your counselor for additional information.

PHOTOGRAPHIC IMAGING

ASSOCIATE IN SCIENCE

The Photography program is designed to provide students with a creative and technical foundation. Each course offered helps cultivate and grow students' artistic vision along with providing practical commercial application. At the completion of this degree students will have gained experience in studio lighting and digital processes and how they apply to fine art, commercial and documentary style photography. Students who complete a degree in Photographic Imaging will be prepared to pursue their goals in the photographic fine art and commercial worlds.

Students who complete this program should be able to:

1. Demonstrate how to use photography equipment and software.
2. Effectively communicate using visual and technical language related to photography.
3. Describe photography's place in Art History and the Contemporary Art world.
4. Promote their work in both commercial and fine arts settings.

REQUIRED COURSES		UNITS
PHOTO 13	Introduction to Digital Photography	3
PHOTO 22	History of Photography	3
PHOTO 33	Advanced Photography	3
PHOTO 35	Creative Photo Documentary	3
PHOTO 36A	Digital Photography	3
PHOTO 36B	Intermediate Digital Photography	3
PHOTO 36C	Advanced Digital Photography	3

TOTAL UNITS REQUIRED FOR DEGREE MAJOR 21

Students earning an AA/AS degree must complete a minimum of 18 units of General Education requirements, the multicultural graduation requirement, and the health requirement, in addition to the program units listed here. Students must complete a total of 60 degree applicable units to earn an AA or AS. Please see your counselor for additional information.

PHOTOGRAPHIC IMAGING

CERTIFICATE OF ACHIEVEMENT

The Photography Certificate is designed to provide students with a creative and technical foundation. Each course offered helps cultivate and grow students' artistic vision along with providing practical commercial application. At the completion of this certificate students will have gained experience in studio lighting and digital processes as well as have gained experience in commercial and documentary style photography. Students who complete a Certificate in Photographic Imaging will be prepared to pursue their goals in the commercial world of photography.

Students who complete this program should be able to:

1. Effectively communicate using visual and technical language related to photography.
2. Demonstrate how to use photography equipment and software.
3. Describe photography's place in Art History and the Contemporary Art world.
4. Will promote their work in both commercial and fine arts settings.

REQUIRED COURSES		UNITS
12 required units from the following:		
PHOTO 13	Introduction to Digital Photography	3
PHOTO 33	Advanced Photography	3
PHOTO 35	Creative Photo Documentary	3
PHOTO 36A	Digital Photography	3
Complete 6 units from the following:		
PHOTO 22	History of Photography	3
PHOTO 36B	Intermediate Digital Photography	3
PHOTO 36C	Advanced Digital Photography	3
PHOTO 38	Field Workshop-Black and White	1-3
PHOTO 39	Field Workshops-Digital	1-3

TOTAL UNITS REQUIRED FOR CERTIFICATE 18

COURSES

ART

ART-1A **3 UNITS**

History of Art I

TRANSFERABLE TO CSU AND UC
C-ID: ARTH 110
54 LECTURE HOURS

Survey of Art history, painting, sculpture, and architecture; Art from the Paleolithic period through the Early Christian World. (L)

ART-1B **3 UNITS**

History of Art II

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

Survey of European Art history, painting, sculpture and architecture from the Renaissance to the 20th Century. (L)

ART-2 **3 UNITS**

Color Theory

TRANSFERABLE TO CSU AND UC
C-ID: ARTS 270
36 LECTURE HOURS
54 LAB HOURS

Study and application of color theory to solve studio problems in fine and applied arts. Historical overview of the uses of color and an analysis of the interaction of color in a laboratory situation.

ART-3A **3 UNITS**

Women in Art I

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

The role of women as artists in the western world, beginning in the middle ages and concluding in the Twentieth Century art world. Grades are P/NP Option.

Limitations on Enrollment: Course not open for credit to students with credit in HUMAN-26A.

ART-3B **3 UNITS**

Women in Art II

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

Role of women as visual artists in Europe and the Americas, focusing on the Twentieth Century. Grades are P/NP Option.

Limitations on Enrollment: Course not open for credit to students with credit in HUMAN-26B.

ART-4A **3 UNITS**

Drawing and Composition Beginning

TRANSFERABLE TO CSU AND UC
27 LECTURE HOURS
81 LAB HOURS

Drawing and composition using various materials for basic instruction in perspective, landscape, still life, and other subjects. Grades are P/NP Option.

ART-4B **3 UNITS**

Drawing and Composition Intermediate

TRANSFERABLE TO CSU AND UC
C-ID: ARTS 205
27 LECTURE HOURS
81 LAB HOURS

Students in this class will build on fundamental drawing skills to develop personalized solutions to content and materials in exercises covering multiple historical and contemporary approaches to drawing. (L) Grades are P/NP Option.

ART-5 **3 UNITS**

Art Appreciation

TRANSFERABLE TO CSU AND UC
C-ID: ARTH 100
54 LECTURE HOURS

This course provides a general introduction to visual art through selected examination of art works and architecture from diverse cultures of the world from the prehistoric period to the present, familiarizing students with art historical context and terminology, visual elements, design principles, and visual art media. (L,C)

Limitations on Enrollment: Course not open for credit to students with credit in HUMAN-5.

ART-6A **3 UNITS**

Beginning Basic Design

TRANSFERABLE TO CSU AND UC
C-ID: ARTS 100
27 LECTURE HOURS
81 LAB HOURS

Introduction to the concepts, applications, and historical references that apply to two-dimensional art, including the basic principles and elements as they relate to two-dimensional problems. (L)

ART-6B **3 UNITS**

Intermediate Basic Design, 3-D

TRANSFERABLE TO CSU AND UC
C-ID: ARTS 101
27 LECTURE HOURS
81 LAB HOURS

Students will explore the concepts, applications, and historical references that relate to three dimensional design and spatial composition, including the study of elements and organizing principles of design as they apply to three dimensional space and form. (L)

Prerequisite(s): ART-6A

ART-8A **3 UNITS**

Watercolor Painting

TRANSFERABLE TO CSU AND UC
27 LECTURE HOURS
81 LAB HOURS

Basic principles and elements of watercolor painting in various techniques; wet on wet, washes, and dry-brush. Concepts of form, color, content, and space are explored. (L) Grades are P/NP Option.

Prerequisite(s): ART-4A

ART-8B **3 UNITS**

Watercolor Painting

TRANSFERABLE TO CSU AND UC
27 LECTURE HOURS
81 LAB HOURS

Basic principles and elements of watercolor painting in various techniques; wet-on-wet, washes, and dry brush. Advanced techniques applied, portfolio of personal work developed. (L) Grades are P/NP Option.

Prerequisite(s): ART-8A

ART-9A **3 UNITS**

Beginning Painting

TRANSFERABLE TO CSU AND UC
C-ID: ARTS 210
27 LECTURE HOURS
81 LAB HOURS

Introduction to the principles, elements, and practices of painting. Focus on painting materials, perceptual skills and color theory, paint mixing and technique, and creative response to materials and subject matter. Grades are P/NP Option.

ART-9B **3 UNITS**

Intermediate Painting

TRANSFERABLE TO CSU AND UC
27 LECTURE HOURS
81 LAB HOURS

Continued exploration of painting media and techniques. Emphasis on personal style and painting from life. Students will be introduced to painting in a series. (L) Grades are P/NP Option.

Prerequisite(s): ART-9A

ART-11 **3 UNITS**

Mural Painting

TRANSFERABLE TO CSU AND UC
27 LECTURE HOURS
81 LAB HOURS

Studio course focused on the creation of a large mural. Students will design, compose, prepare and produce a wall mural project. Students will explore the design and cultural significance of historical murals.

Prerequisite(s): ART-9B

ART-12A **3 UNITS**

Beginning Ceramics

TRANSFERABLE TO CSU AND UC
27 LECTURE HOURS
81 LAB HOURS

Basic studio techniques and processes in hand building, use of the potter wheel, and creative, artistic expression using clay. Introduction to ceramic materials and concepts with processes including basic design principles and creative development in hand building and wheel thrown techniques, techniques for glaze use, firing and ceramic terminology. This course covers aesthetic and creative development of clay objects through examining historical, contemporary, and personal modes of expression across cultures. (L) Grades are P/NP Option.

ART-12B **3 UNITS**

Intermediate Ceramics

TRANSFERABLE TO CSU AND UC
27 LECTURE HOURS
81 LAB HOURS

Intermediate techniques and processes for wheel-thrown and hand-built pottery; creative and artistic expression through the use of clay and glazes. (L) Grades are P/NP Option.

Prerequisite(s): ART-12A

ART-14A **3 UNITS**

Beginning Sculpture

TRANSFERABLE TO CSU AND UC
27 LECTURE HOURS
81 LAB HOURS

Introduction to three-dimensional sculptural principles, techniques, and concepts utilizing a wide range of materials and practices. Various sculpture methods are practiced with attention to creative self-expression and historical context. Focuses on the use and exploration of the media of clay, plaster, wood and armature building. Covers concepts such as figurative sculpture, abstract sculpture, and conceptual sculpture. Grades are P/NP Option.

ART-14B **3 UNITS**

Intermediate Sculpture

TRANSFERABLE TO CSU AND UC
27 LECTURE HOURS
81 LAB HOURS

Further study of three dimensional form and use of materials such as clay, plaster, wood, metal and armature building, with an introduction to creating sculptural spaces through “Installation”. Further study of figurative and abstract concepts with an emphasis on conceptual work. Grades are P/NP Option.

Prerequisite(s): ART-14A

ART-15A **3 UNITS**

Beginning Printmaking

TRANSFERABLE TO CSU AND UC
27 LECTURE HOURS
81 LAB HOURS

Students will explore basic printmaking techniques, including intaglio, relief, planographic and stencil. Students will become familiar with historical examples using each of these techniques. Focus on safe and correct use of printmaking materials and equipment and best practices for working in a studio space with others. Covers printmaking studio vocabulary and practice in critique students’ own work and the work of others. At the conclusion of the class students will be able to print a consistent edition of prints. Grades are P/NP Option.

ART-15B **3 UNITS**

Intermediate Printmaking

TRANSFERABLE TO CSU AND UC
27 LECTURE HOURS
81 LAB HOURS

Students will develop expertise in techniques covered in Art 15A. Advanced printmaking techniques such as solar plate intaglio, mezzotint, and screen-printing with photo emulsion. Students will develop an ability to use printmaking to create original and meaningful content and imagery. Students will learn to work with color and create images using multiple plates. Grades are P/NP Option.

Prerequisite(s): ART-15A

ART-18 **3 UNITS**

Beginning Graphic Arts

TRANSFERABLE TO CSU
36 LECTURE HOURS
54 LAB HOURS

This course is an introductory overview of the technical software and aesthetic fundamental elements for creating typography for print ready visual communications. This course includes a study of “letterform,” typeface, copy fitting, graphic arts software and the creative application of all the above. (L,C) Grades are P/NP Option.

ART-19A **3 UNITS**

Introduction to Commercial Art

TRANSFERABLE TO CSU
27 LECTURE HOURS
81 LAB HOURS

Introduces students to the principles of drawing and design, tools, computer software, and vocabulary and concepts for design of commercial ART-production. Focus is on promotional design skills for client-based product. (C) Grades are P/NP Option.

ART-19B **3 UNITS**

Commercial Art: Illustration

TRANSFERABLE TO CSU
27 LECTURE HOURS
81 LAB HOURS

Studio practice in the basic concepts and techniques of commercial illustration, using typical projects that occur in employment situations. Stress on various media, portfolio, and camera ready work. (C) Grades are P/NP Option.

Prerequisite(s): ART-19A

ART-20 **3 UNITS**

African, Oceanic, and Native American Art History Survey

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

This course is a survey of visual culture within selected regions in Africa, Oceania, and indigenous Americas. Grades are P/NP Option.

ART-21 **3 UNITS**

Asian Art History

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

This course is a survey of the arts of China, India, Japan, Indonesia, Korea, and South East Asia from prehistoric times to the present. This course examines the wide variety of art forms from these areas and time periods within their historical contexts, with emphasis on function, meaning, aesthetic concepts, mechanical aspects of art-making, and the classification and criticism of these arts. (L) Grades are P/NP Option.

ART-29 **3 UNITS**

Individual Problems in Design

TRANSFERABLE TO CSU
27 LECTURE HOURS
81 LAB HOURS

Advanced principles and elements of art and their functioning design as related to all phases of art. (L)

Prerequisite(s): ART-6B

ART-32C **3 UNITS**

Advanced Black and White Photography

TRANSFERABLE TO CSU
36 LECTURE HOURS
54 LAB HOURS

(EFFECTIVE THROUGH FALL 2022, DEACTIVATED SPRING 2023)

Individual exploration of advanced black and white photography concepts such as refining the zone system, infrared photography, large format camera, etc., within a structured but non-confining framework.

Prerequisite(s): ART-32B

ART-41A **3 UNITS**

Individual Problems in Painting I

TRANSFERABLE TO CSU AND UC
27 LECTURE HOURS
81 LAB HOURS

A third-semester painting course in which students approach individual painting problems with a focus on a series of works in consultation with instructor. Grades are P/NP Option.

Prerequisite(s): ART-9B

ART-41B **3 UNITS**

Individual Problems in Painting: Advanced

TRANSFERABLE TO CSU AND UC
27 LECTURE HOURS
81 LAB HOURS

Advanced painting course in which students work on self-directed painting and the development of creative portfolios. (L) Grades are P/NP Option.

Prerequisite(s): ART-9A; ART-9B; ART-41A

ART-42A **3 UNITS**

Individual Problems in Ceramics I

TRANSFERABLE TO CSU AND UC
27 LECTURE HOURS
81 LAB HOURS

Advanced techniques and processes for creative expression in Ceramics. Grades are P/NP Option.

Prerequisite(s): ART-12B

ART-42B **3 UNITS**

Individual Problems in Ceramics II

TRANSFERABLE TO CSU AND UC
27 LECTURE HOURS
81 LAB HOURS

Advanced techniques and processes in which students work on self directed projects for the development of creative portfolios. Grades are P/NP Option.

Prerequisite(s): ART-42A

ART-43A **3 UNITS**

Individual Problems Printmaking 1

TRANSFERABLE TO CSU
27 LECTURE HOURS
81 LAB HOURS

Individual problems exploring independent techniques, content, and solutions in printmaking. Grades are P/NP Option.

Prerequisite(s): ART-15B

ART-43B **3 UNITS**

Individual Problems in Printmaking: Advanced

TRANSFERABLE TO CSU AND UC
27 LECTURE HOURS
81 LAB HOURS

Exploration into advanced level printmaking techniques and exhibition of work. Students will focus on “working in series” in a single technique, produce an exhibit of work, and write an artist statement. Grades are P/NP Option.

Prerequisite(s): ART-43A

ART-44 **3 UNITS**

Individual Problems in Drawing

TRANSFERABLE TO CSU AND UC
27 LECTURE HOURS
81 LAB HOURS

Development of a personal drawing style at an advanced level, working in series with the goal of producing a coherent group of works. Grades are P/NP Option.

Prerequisite(s): ART-4B

ART-46A **3 UNITS**

Individual Problems in Sculpture I

TRANSFERABLE TO CSU AND UC
27 LECTURE HOURS
81 LAB HOURS

Advanced techniques and processes; creative and personal expression in three dimensional form. Student will learn to create works in series. Grades are P/NP Option.

Prerequisite(s): ART-14B

ART-46B **3 UNITS**

Individual Problems in Sculpture II

TRANSFERABLE TO CSU AND UC
27 LECTURE HOURS
81 LAB HOURS

Advanced techniques and processes; creative and personal expression in three dimensional form. Students will write an artist's statement, have an exhibition of work and create a final portfolio. (L) Grades are P/NP Option.

Prerequisite(s): ART-46A

COURSES

PHOTOGRAPHY

PHOTO-13 **3 UNITS**

Introduction to Digital Photography

TRANSFERABLE TO CSU
36 LECTURE HOURS
54 LAB HOURS

This course is an introduction to digital photography. Instruction will include basic camera operation, the exploration of technical and creative controls of the camera, computer manipulation and various output methods. Personal expression from a historical context will be emphasized. Students must provide their own adjustable DSLR or mirrorless cameras. Grades are P/NP Option

PHOTO-22 **3 UNITS**

History of Photography

TRANSFERABLE TO CSU
54 LAB HOURS

Survey of the history of photography as an art form and as a means to communicate from its invention to the present. An examination of photography's impact on culture and the lives of the photographers. (L) Grades are P/NP Option.

PHOTO-27 **1 UNIT**

Photography Materials and Processes

TRANSFERABLE TO CSU
54 LAB HOURS

An additional laboratory experience for those interested in further refining and developing concepts attained in regular course offerings in the photography emphasis in Fine Art.

Co-requisite: PHOTO-13

Limitations on Enrollment: Course not open for credit to students with credit in ART-27.

PHOTO-33 **3 UNITS**

Advanced Photography

TRANSFERABLE TO CSU
36 LECTURE HOURS
54 LAB HOURS

Traditional and digital based photography; further exploration within the student's area of interest. Assignments in creative problem solving with studio lighting and the large format camera. A capstone course for the Photographic Imaging AS and certificate, designed to be a culmination of student's experience. Preparation of final portfolios and resume to target specific photographic markets. (L)

Co-requisite: PHOTO-36B

Limitations on Enrollment: Course not open for credit to students with credit in ART-33.

PHOTO-35 **3 UNITS**

Creative Photo Documentary

TRANSFERABLE TO CSU
36 LECTURE HOURS
54 LAB HOURS

Students will develop an understanding and appreciation of the photograph as it is used in social and personal commentary. Individual exploration and creativity will be developed to create a focused photographic essay. Various presentation methods will be explored. (L)

Prerequisite(s): PHOTO-36A

Limitations on Enrollment: Course not open for credit to students with credit in ART-35.

PHOTO-36A **3 UNITS**

Digital Photography

TRANSFERABLE TO CSU AND UC
36 LECTURE HOURS
54 LAB HOURS

Introduction to digital photography: exposure control, file formats, archiving, and basic image editing/manipulation using Adobe Photoshop. (C)

Prerequisite(s): PHOTO-13

Limitations on Enrollment: Course not open for credit to students with credit in ART-36A.

PHOTO-36B **3 UNITS**

Intermediate Digital Photography

TRANSFERABLE TO CSU AND UC
36 LECTURE HOURS
54 LAB HOURS

Students will delve deeper into the possibilities of Adobe Photoshop pushing the photographic image beyond straight photography into the world of photo manipulation. Techniques that will be covered include but are not limited to creative retouching, montaging and transmissive/reflective scanning and alternative digital outputs producing quality image output.

Prerequisite(s): PHOTO-36A

Limitations on Enrollment: Course not open for credit to students with credit in ART-36B.

PHOTO-36C **3 UNITS**

Advanced Digital Photography

TRANSFERABLE TO CSU
36 LECTURE HOURS
54 LAB HOURS

Individual exploration of advanced digital imaging concepts within a structured environment. Projects may include advanced montaging, text layers, web authoring, integration with other 2D/3D mediums. Self generated projects are emphasized.

Prerequisite(s): PHOTO-36B

Limitations on Enrollment: Course not open for credit to students with credit in ART-36C.

PHOTO-38 **V1-3 UNITS**

Field Workshop-Black and White

TRANSFERABLE TO CSU
9 LECTURE HOURS
27 LAB HOURS (1 UNIT)

18 LECTURE HOURS
54 LAB HOURS (2 UNITS)

18 LECTURE HOURS
108 LAB HOURS (3 UNITS)

Intensive location field workshops covering specific topics in black and white photography especially suited for the particular season and geographic location. Students responsible for cost of meals, lodging, transportation, and materials.

Co-requisite: PHOTO-13

Limitations on Enrollment: Course not open for credit to students with credit in ART-38.

PHOTO-39 **V1-3 UNITS**

Field Workshops-Digital

TRANSFERABLE TO CSU
9 LECTURE HOURS
27 LAB HOURS (1 UNIT)

18 LECTURE HOURS
54 LAB HOURS (2 UNITS)

18 LECTURE HOURS
108 LAB HOURS (3 UNITS)

Intensive location field workshops covering specific topics in digital photography especially suited for the particular season and geographic location. Students responsible for cost of meals, lodging, transportation and materials.

Co-requisite: PHOTO-13

Limitations on Enrollment: Course not open for credit to students with credit in ART-39.

Photography & Art Families of Classes

ART DESIGN:

Family of Classes

(No more than four classes can be attempted within each family of classes listed below. See page 38 for details.)

ART 2—Color Theory
ART 6A—Beginning Basic Design
ART 6B—Intermediate Basic Design, 3D
ART 18—Beginning Graphic Arts

CERAMICS:

Family of Classes

(No more than four classes can be attempted within each family of classes listed below. See page 38 for details.)

ART 12A—Beginning Ceramics
ART 12B—Intermediate Ceramics
ART 42A—Individual Problems in Ceramics I
ART 42B—Individual Problems in Ceramics II

COMMERCIAL ART:

Family of Classes

(No more than four classes can be attempted within each family of classes listed below. See page 38 for details.)

ART 19A—Introduction to Commercial Art
ART 19B—Commercial Art: Illustration

DRAWING:

Family of Classes

(No more than four classes can be attempted within each family of classes listed below. See page 38 for details.)

ART 4A—Drawing and Composition Beginning
ART 4B—Drawing and Composition Intermediate
ART 44—Individual Problems in Drawing

PAINTING:

Printmaking Family of Classes

(No more than four classes can be attempted within each family of classes listed below. See page 38 for details.)

ART 8A—Watercolor Painting
ART 8B—Watercolor Painting
ART 9A—Beginning Painting
ART 9B—Intermediate Painting
ART 11—Mural Painting
ART 41A—Individual Problems in Painting I
ART 41B—Individual Problems in Painting: Advanced

Family of Classes

(No more than four classes can be attempted within each family of classes listed below. See page 38 for details.)

ART 15A—Beginning Printmaking
ART 15B—Intermediate Printmaking
ART 43A—Individual Problems Printmaking 1
ART 43B—Individual Problems in Printmaking: Advanced

SCULPTURE:

Family of Classes

(No more than four classes can be attempted within each family of classes listed below. See page 38 for details.)

ART 14A—Beginning Sculpture
ART 14B—Intermediate Sculpture
ART 46A—Individual Problems in Sculpture I
ART 46B—Individual Problems in Sculpture II

Asian Studies

COURSE

ASIAN-31 **3 UNITS**

Asian-American Humanities and Cultures

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

Survey of Asian-American cultures, including religions, traditions, and some highlights of history. (L)

Limitations on Enrollment: Course not open for credit to students with credit in HUMAN-31.

Astronomy

COURSES

ASTRO-1 **3 UNITS**

Introduction To Astronomy

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

Survey of the solar system, stars, galaxies, history and tools of astronomy, cosmology, and exploration of space. (L,M)

Athletics

Courses with "R" can be taken a total of four times.

COURSES

ATHL-1.55R **V0.5-1.5 UNITS**

Sports Conditioning

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
4.5 LECTURE HOURS
13.5 LAB HOURS
REPEATABLE THREE TIMES ONLY

Preparatory conditioning necessary for intercollegiate competition. Development of sport-specific strength, power, endurance, agility, and flexibility as well as mental training techniques. Grades are P/NP Option.

ATHL-2.01R **1.5 UNITS**

Baseball Skills

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
13.5 LECTURE HOURS
40.5 LAB HOURS
REPEATABLE THREE TIMES ONLY

Techniques of baseball and conditioning used in preparing for intercollegiate competition. Grades are P/NP Option.

ATHL-2.03R **1.5 UNITS**

Basketball Skills-Men

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
13.5 LECTURE HOURS
40.5 LAB HOURS
REPEATABLE THREE TIMES ONLY

Techniques of basketball and conditioning used in preparing for intercollegiate competition. Grades are P/NP Option.

ATHL-2.04R **1.5 UNITS**

Basketball Skills-Women

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
13.5 LECTURE HOURS
40.5 LAB HOURS
REPEATABLE THREE TIMES ONLY

Techniques of basketball and conditioning used in preparing for intercollegiate competition. Grades are P/NP Option.

ATHL-2.07R **1.5 UNITS**

Football Skills

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
13.5 LECTURE HOURS
40.5 LAB HOURS
REPEATABLE THREE TIMES ONLY

Preparatory skills necessary for intercollegiate competition in football. Development in offensive and defensive systems, including passing, kicking, blocking and conditioning. Grades are P/NP Option.

ATHL-2.09R **1.5 UNITS**

Softball Skills - Women

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
13.5 LECTURE HOURS
40.5 LAB HOURS
REPEATABLE THREE TIMES ONLY

Techniques of softball and conditioning used in preparing for intercollegiate competition. Grades are P/NP Option.

ATHL-2.10R **1.5 UNITS**

Soccer Skills-Women

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
13.5 LECTURE HOURS
40.5 LAB HOURS
REPEATABLE THREE TIMES ONLY

Development of various collegiate level soccer skills and strategies for women. This course will include analysis of scouting reports and film reviews; as well as the practical application of various physical training concepts. Grades are P/NP Option.

ATHL2.11R **1.5 UNITS**

Track and Field Skills (Men/Women)

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
13.5 LECTURE HOURS
40.5 LAB HOURS
REPEATABLE THREE TIMES ONLY

Fundamental techniques and conditioning necessary for participation in intercollegiate track and field competition for men and women. Grades are P/NP Option.

ATHL-2.12R **1.5 UNITS**

Soccer Skills (Men)

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
13.5 LECTURE HOURS
40.5 LAB HOURS
REPEATABLE THREE TIMES ONLY

Preparatory skills necessary for intercollegiate competition in men's soccer. Development in offensive and defensive systems, including passing, kicking, blocking and conditioning. Grades are P/NP Option.

ATHL-2.13R **1.5 UNITS**

Volleyball Skills

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
13.5 LECTURE HOURS
40.5 LAB HOURS
REPEATABLE THREE TIMES ONLY

Advanced skills and techniques necessary for competitive volleyball play including conditioning, rules of play, and advanced offensive and defensive strategies. Grades are P/NP Option.

ATHL-11R **1.5 UNITS**

Intercollegiate Basketball - Men

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
87.5 LAB HOURS
REPEATABLE THREE TIMES ONLY

Preparation and competition for Intercollegiate Men's basketball. Collegiate techniques and strategies will be implemented. Grades are P/NP Option.

ATHL-12R **3 UNITS**

Intercollegiate Track and Field - Men

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
175 LAB HOURS
REPEATABLE THREE TIMES ONLY

Preparation and competition for Intercollegiate Men's Track and Field. Collegiate techniques and strategies will be implemented.

ATHL-15R **3 UNITS**

Intercollegiate Football

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
175 LAB HOURS
REPEATABLE THREE TIMES ONLY

Preparation for intercollegiate competition. Daily practice sessions including intercollegiate competition with other colleges. Practice includes instruction in offensive and defensive systems, instructions with various techniques associated with the positions played either in the offensive or defensive systems, and conditioning.

ATHL-16R **3 UNITS**

Intercollegiate Soccer-Men

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
175 LAB HOURS
REPEATABLE THREE TIMES ONLY

Intercollegiate soccer competition including: shooting, heading, controlling, dribbling, passing, tackling, scoring, and goal keeping. Practice and competition required.

ATHL-17R **3 UNITS**

Intercollegiate Baseball

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
175 LAB HOURS
REPEATABLE THREE TIMES ONLY

Preparation for intercollegiate baseball competition. Collegiate baseball techniques and strategies performed. Practice and competition required.

ATHL-31R **3 UNITS**

Intercollegiate Volleyball-Women

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
175 LAB HOURS
REPEATABLE THREE TIMES ONLY

Preparation for intercollegiate volleyball competition. Collegiate level game strategies and techniques performed. Practice and competition required.

ATHL-32R **1.5 UNITS**

Intercollegiate Basketball-Women

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
87.5 LAB HOURS
REPEATABLE THREE TIMES ONLY

Preparation for intercollegiate women's basketball. Collegiate level techniques and strategies for competition will be performed.

ATHL-33R **3 UNITS**

Intercollegiate Softball-Women

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
175 LAB HOURS
REPEATABLE THREE TIMES ONLY

Intercollegiate softball competition, individual skills, position play, team play, and game strategy. Practice and competition required.

ATHL-36R **3 UNITS**

Intercollegiate Track and Field-Women

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
175 LAB HOURS
REPEATABLE THREE TIMES ONLY

Preparation and competition in Intercollegiate Track and Field for Women. Advanced collegiate techniques and skills will be performed in each event.

ATHL-37R **3 UNITS**

Intercollegiate Soccer-Women

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
175 LAB HOURS
REPEATABLE THREE TIMES ONLY

Intercollegiate soccer competition including: shooting, heading, controlling, dribbling, passing, tackling, scoring, and goal keeping. Practice and competition required.

Automotive Technology

The Automotive Technology Program is designed to provide students with the qualifications needed to fill entry-level positions in the automotive and other related repair fields. The Certificate program also provides additional training for those already employed who desire to improve their skills and abilities. These programs can be completed in one or more semesters. The various Certificates of Training parallel the national voluntary mechanics testing program offered by A.S.E. (Automotive Service Excellence) and are designed to prepare students to pass the A.S.E. tests. The Autobody courses utilize an I-car based curriculum.

AUTOMOTIVE TECHNOLOGY

ASSOCIATE IN SCIENCE

The Automotive Technology Degree prepares students with job skills needed to enter the automotive field. Emphasis is placed on brake systems, suspension and alignment, heating and air-conditioning, manual and automatic transmissions, electrical and engine management systems, and complete automotive systems diagnosis and repair. It prepares students for all nine Automotive Service Excellence (ASE) A1-A8 certifications including Advanced Engine Performance (L-1).

Students who complete this program should be able to:

1. Demonstrate basic technical skills used by all automotive service and repair technicians, in the areas of brake systems, suspension and steering, and hvac. To include tool selection, use and maintenance, practical measuring skills, nomenclature, systems function, systems service, minor repair procedures and major repair complexities.
2. Demonstrate a knowledge of principles of automotive drivetrains which consist of both standard and automatic transmissions/ transaxles and engine theory of operation, pre-tear down diagnosis, disassembly techniques, cleaning methods, measurement tools, component identification, lubrication systems, and ability to apply diagnostic, service and repair procedures to industry standards and specifications.
3. Demonstrate knowledge of current automotive electrical systems, and advanced fuel systems with emphasis on diagnosis, service and repair, proper safety awareness in hybrid service, knowledge of hybrid electrical motors and generator controls, diagnosis of vehicle computer systems using a scan tool.

REQUIRED COURSES		UNITS
AUTO 51.20	Automotive Technical Skills	3
AUTO 21	Introduction to Automobiles	3
AUTO 52.30	Manual Drive Trains/Gas/Diesel Vehicles	3
AUTO 52.36	Heating and Air Conditioning Systems	3
AUTO 52.40	Brake Systems	4
AUTO 52.41	Alignment and Suspensions	4
AUTO 52.44	Electrical Systems	6
AUTO 52.45	Engine Diagnosis and Rebuilding	4
AUTO 52.81	Hybrid and Alternative Fuel Vehicles	2
AUTO 53.31	Automatic Transmission/Gas and Diesel Vehicles	4
AUTO 53.33	Fuel Systems	4

Complete 1 unit from the following:

AUTO 52.61A	Engine Repair Experience	1
AUTO 52.61B	Engine Machining and Reconditioning Experience	1
AUTO 52.62A	Automatic Transmission and Transaxle Experience	1
AUTO 52.62B	Manual Drivetrain and Axles Experience	1

TOTAL UNITS REQUIRED FOR DEGREE MAJOR 41

Students earning an AA/AS degree must complete a minimum of 18 units of General Education requirements, the multicultural graduation requirement, and the health requirement, in addition to the program units listed here. Students must complete a total of 60 degree applicable units to earn an AA or AS. Please see your counselor for additional information.

ENGINE PERFORMANCE/ DRIVABILITY AND TUNE-UP

ASSOCIATE IN SCIENCE

The Engine Performance/Drivability and Tune-Up Degree prepares students with job skills needed to enter the automotive field in positions such as smog technician, tune-up technician, and general repair. With this degree, eventual promotion to management is possible. Emphasis electrical and electronic engine and fuels management systems, and complete automotive systems diagnosis and repair. It prepares students for the Automotive Service Excellence (ASE) A6 and A8 certifications including Advanced Engine Performance (L-1). This degree also prepares the student for the California State Emission Control License Test.

Students who complete this program should be able to:

1. Demonstrate the ability to perform advanced automotive tune-up problems pertaining to fuel ignition, emission, computers, wiring systems, 5-gas analyzers and combustion, and mechanical engine diagnostics.
2. Demonstrate a knowledge of current automotive electrical systems and advanced fuel systems with emphasis on diagnosis, service and repair.
3. Demonstrate a knowledge of the basic operating principles of automotive air conditioning, heating and ventilating systems. Including air conditioner and heater operation, engine cooling system, system operation with normal service and adjustment procedures, problem diagnosis, repair procedures.

REQUIRED COURSES		UNITS
AUTO 21	Introduction to Automobiles	3
AUTO 50B	Advanced Engine Performance and Diagnosis	2
AUTO 52.36	Heating and Air Conditioning Systems	3
AUTO 52.44	Electrical Systems	6
AUTO 52.61C	Electrical Systems Experience	1
AUTO 52.61D	Engine Performance Experience	1
AUTO 52.81	Hybrid and Alternative Fuel Vehicles	2
AUTO 53.33	Fuel Systems	4
AUTO 53.55	Advanced Tune-Up	5
AUTO 95	State Emission Control License	7

TOTAL UNITS REQUIRED FOR DEGREE MAJOR 34

Students earning an AA/AS degree must complete a minimum of 18 units of General Education requirements, the multicultural graduation requirement, and the health requirement, in addition to the program units listed here. Students must complete a total of 60 degree applicable units to earn an AA or AS. Please see your counselor for additional information.

AUTOMOTIVE DRIVE TRAINS

CERTIFICATE OF ACHIEVEMENT

The Automotive Technology Program is designed to provide students with the qualifications needed to fill entry-level positions in the automotive and other related repair fields. The Certificate program also provides additional training for those already employed who desire to improve their skills and abilities. These programs can be completed in one or more semesters. The various Certificates of Training parallel the national voluntary mechanics testing program offered by A.S.E., and are designed to prepare students to pass the A.S.E. tests.

Students who complete this program should be able to:

1. Demonstrate the job ready skills needed to obtain entry level employment in the Auto Body industry.
2. Demonstrate personal and professional health practices required for the Auto body Industry.
3. Demonstrate professional work ethics and standards that are expected when working in the Auto body industry.

REQUIRED COURSES		UNITS
AUTO 20	Automotive Technical Skills	3
AUTO 22	Hydraulics (Fluid Power)	3
AUTO 30	Manual Drive Trains-Gas and Diesel Vehicles	3
AUTO 31	Automatic Transmissions Gas and Diesel Vehicles	4
AUTO 62A	Auto Transmission/Transaxle Exp	2
AUTO 62B	Manual Drivetrain and Axles Exp	2
Plus 1 additional unit of AUTO classes		1
TOTAL UNITS REQUIRED FOR CERTIFICATE		**18**

AUTOMOTIVE EMISSION TECHNICIAN

CERTIFICATE OF ACHIEVEMENT

The Automotive Emissions Technician Certificate prepares students with job skills needed to enter the automotive field as emissions inspectors or emission repair technicians. Emphasis is placed on fuels, electrical and emissions systems. It meets the state of California requirements for students seeking to apply for a California state smog inspector and/or repair license(s).

Students who complete this program should be able to:

1. Demonstrate knowledge of current automotive electrical systems with emphasis on diagnosis, service and repair of vehicle computer systems using DVOMs, scopes, analyzers and scanners.
2. Demonstrate basic technical skills used by all automotive service, repair and emission technicians, in the areas of electronic fuel injection performance testing and EFI sensors.
3. Explain the state regulations regarding smog check stations, technicians, certification, and how to write estimates.

REQUIRED COURSES		UNITS
AUTO 50B	Advanced Engine Performance and Diagnosis	2
AUTO 52.44	Electrical Systems	6
AUTO 53.33	Fuel Systems	4
AUTO 53.33	Advanced Tune-Up	5
AUTO 95	State Emission Control License	7
TOTAL UNITS REQUIRED FOR CERTIFICATE		**24**

AUTOMOTIVE SERVICE TECHNICIAN

CERTIFICATE OF ACHIEVEMENT

This certificate prepares the student for an entry-level position in the automotive industry. Emphasis will be placed on performing vehicle inspections, new car preparation, basic engine service, cooling system maintenance, battery testing, tire service including balancing, disc and drum brake service, basic front and rear suspension service and general automotive maintenance.

Students who complete this program should be able to:

1. Demonstrate basic technical skills used by all automotive service and repair technicians in the area of brake systems. To include tool selection, use and maintenance, practical measuring skills, nomenclature, system function, system.
2. Demonstrate basic technical skills used by all automotive service and repair technicians in the area of heating, ventilation and air-conditioning. To include tool selection, use and maintenance, practical measuring skills, nomenclature.
3. Demonstrate basic technical skills used by all automotive service and repair technicians in the area of suspension and steering. To include tool selection, use and maintenance, practical measuring skills, nomenclature, systems function.

REQUIRED COURSES		UNITS
AUTO 21	Introduction to Automobiles	3
AUTO 51.20	Automotive Technical Skills	3
AUTO 52.36	Air Conditioning and Heating Systems	3
AUTO 52.40	Brake Systems	4
AUTO 52.41	Alignment and Suspension	4
AUTO 52.81	Hybrid and Alternative Fuel Vehicles	2
Complete 1 unit from the following:		
AUTO 52.61A	Engine Repair Experience	1
AUTO 52.62C	Alignment and Suspension Experience	1
AUTO 52.62D	Brakes Experience	1
AUTO 52.62E	Heating and Air Conditioning Exp	1
TOTAL UNITS REQUIRED FOR CERTIFICATE		**20**

AUTOMOTIVE TECHNOLOGY

CERTIFICATE OF ACHIEVEMENT

The Automotive Technology Certificate prepares students with job skills needed to enter the automotive field. Emphasis is placed on brake systems, suspension and alignment, heating and air-conditioning, manual and automatic transmissions, electrical and engine management systems, and complete automotive systems diagnosis and repair. It prepares students for all nine Automotive Service Excellence (ASE) A1-A8 certifications including Advanced Engine Performance (L-1).

Students who complete this program should be able to:

1. Demonstrate knowledge of current automotive electrical systems, and advanced fuel systems with emphasis on diagnosis, service and repair, proper safety awareness in hybrid service, knowledge of hybrid electrical motors and generators.
2. Demonstrate basic technical skills used by all automotive service and repair technicians, in the areas of brake systems, suspension and steering, and hvac. To include tool selection, use and maintenance, practical measuring skills

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3. Demonstrate a knowledge of principles of automotive drivetrains which consist of both standard and automatic transmissions/ transaxles and engine theory of operation, pre-tear down diagnosis, disassembly techniques, cleaning method

REQUIRED COURSES		UNITS
AUTO 51.20	Automotive Technical Skills	3
AUTO 21	Introduction to Automobiles	3
AUTO 52.30	Manual Drive Trains/Gas/Diesel Vehicles	3
AUTO 52.36	Air Conditioning and Heating Systems	3
AUTO 52.40	Brake Systems	4
AUTO 52.41	Alignment and Suspension	4
AUTO 52.44	Electrical Systems	6
AUTO 52.45	Engine Diagnosis and Rebuilding	4
AUTO 52.81	Hybrid and Alternative Fuel Vehicles	2
AUTO 53.31	Automatic Transmission/Gas and Diesel Vehicles	4
AUTO 53.33	Fuel Systems	4
Complete 1 unit from the following:		
AUTO 52.61A	Engine Repair Experience	1
AUTO 52.61B	Engine Machining and Reconditioning Experience	1
AUTO 52.62A	Automatic Transmission and Transaxle Experience	1
AUTO 52.62B	Manual Drivetrain and Axles Experience	1
TOTAL UNITS REQUIRED FOR CERTIFICATE		**41**

ENGINE PERFORMANCE/ DRIVABILITYAND TUNE-UP

CERTIFICATE OF ACHIEVEMENT

The Engine Performance/Drivability and Tune-Up certificate prepares students with job skills needed to enter the automotive field in positions such as smog technician, tune-up technician, and general repair. Emphasis is placed on electrical, electronic engine and fuels management systems, and complete automotive systems diagnosis and repair. It prepares students for the Automotive Service Excellence (ASE) A6 and A8 certifications including Advanced Engine Performance (L-1). This degree also prepares the student for the California State Emission Control License Test.

Students who complete this program should be able to:

1. Demonstrate the ability to perform advanced automotive tune-up problems pertaining to fuel ignition, emission, computers, wiring systems, 5-gas analyzers and combustion, and mechanical engine diagnostics.
2. Demonstrate a knowledge of current automotive electrical systems and advanced fuel systems with emphasis on diagnosis, service and repair.
3. Demonstrate a knowledge of the basic operating principles of automotive air conditioning, heating and ventilating systems. Including air conditioner and heater operation, engine cooling system, system operation with normal service and adjustment procedures, problem diagnosis, repair procedures.

REQUIRED COURSES		UNITS
AUTO 21	Introduction to Automobiles	3
AUTO 50B	Advanced Engine Performance and Diagnosis	2
AUTO 52.36	Heating and Air Conditioning Systems	3
AUTO 52.44	Electrical Systems	6
AUTO 52.61C	Electrical Systems Experience	1
AUTO 52.61D	Engine Performance Experience	1
AUTO 52.81	Hybrid and Alternative Fuel Vehicles	2
AUTO 53.33	Fuel Systems	4
AUTO 53.55	Advanced Tune-Up	5
AUTO 95	State Emission Control License	7
TOTAL UNITS REQUIRED FOR CERTIFICATE		**34**

TRANSPORTATION ENGINE REPAIR AND MACHINING

CERTIFICATE OF ACHIEVEMENT

The Transportation Engine Repair and Machining certificate prepares students with job skills need to enter the Automotive, Bus, Train, and Marine Machining field. Emphasis will be placed on performing engine preparation, cleaning, teardown, repair and engine machining techniques. The certificate will also prepare student s to take the Automotive Technicians Education Foundation (NATEF), in the area of A1 engine repair, Automotive Engine Rebuilders Association (AERA) certificate.

Students who complete this program should be able to:

1. Demonstrate appropriate mathematical concepts and methods to measure and calculate for needed repair and diagnosis.
2. Demonstrate how to identify mechanical or component damage that is either direct (you can see it) or indirect (the damage you cannot see) in a 3C's format. The complaint, the cause, the correction.
3. Utilize the appropriate diagnostic equipment, documentation, and troubleshoot principles on various automobile systems.
4. Identify and implement safety procedures involved in the diagnosis, service, and repair of all manor automobile and light truck systems.

REQUIRED COURSES		UNITS
AUTO 51.20	Automotive Technical Skills	3
AUTO 21	Introduction to Automobiles	3
AUTO 52.45	Engine Diagnosis and Rebuilding	4
AUTO 52.46	Engine Machining and Reconditioning	3
AUTO 52.61A	Engine Repair Experience	1
AUTO 52.61B	Engine Machining and Reconditioning Experience	1
AUTO 53.33	Fuel Systems	4
TOTAL UNITS REQUIRED FOR CERTIFICATE		**19**

COURSES

AUTO-21 **3 UNITS**

Introduction to Automobiles

TRANSFERABLE TO CSU
36 LECTURE HOURS
54 LAB HOURS

This course covers a comprehensive study of automobiles. Emphasis is placed on fundamental operating principles, nomenclature, structural analysis, major design theories, systems function, systems service, minor repair procedures, major repair complexities, current laws and regulations, political action, and personal economics/decision making. Grades are P/NP Option.

AUTO-22 **3 UNITS**

Hydraulics (Fluid Power)

TRANSFERABLE TO CSU
36 LECTURE HOURS
54 LAB HOURS

This course covers a comprehensive study of hydraulics (fluid power). Emphasis is placed on basic principles of hydraulics, pumps, fluids, linear and rotary actuators, reading automotive hydraulic schematics, robotics, and agricultural industry. Students are strongly encouraged to have an understanding of pre-algebra, college-level reading, and computer literacy skills. Grades are P/NP Option.

AUTO-50B **2 UNITS**

Advanced Engine Performance and Diagnosis

27 LECTURE HOURS
27 LAB HOURS

This course covers a comprehensive study of advanced engine performance diagnosis. Emphasis is placed on automotive and diesel diagnostic methods and repair, fuels, electrical, and emissions control. Labs include diagnostic skills in drivability, onboard diagnostics I & II, including scan tools, meter usage, lab scopes, computerized analyzers and dynamometer five-gas emission diagnostic equipment and other related equipment as it pertains to gas or diesel electronic engine management systems. Bureau of Automotive Repair (BAR) L1 certification is offered upon successful completion of final test. Students are strongly encouraged to have college-level reading, basic mathematics, and computer literacy skills. Grades are P/NP Option.

AUTO-51.20 **3 UNITS**

Automotive Technical Skills

36 LECTURE HOURS
54 LAB HOURS

This course covers basic automotive technical skills used by all automotive service and repair technicians. Emphasis is placed on tool selection, use and maintenance of tools, practical measuring skills, bolt and nut thread repair techniques, electrical circuit meter usage and problem solving techniques. Grades are P/NP Option.

AUTO-52.30 **3 UNITS**

Manual Drivetrains/Gas/Diesel Vehicles

36 LECTURE HOURS
54 LAB HOURS

This course covers a comprehensive study of automotive manual drivetrains. Emphasis is placed on standard transmissions and transaxles, clutches, drive shafts, drive axle assemblies, transfer cases, gears, bearings, lubrication theory, normal maintenance adjustments and service operations, problem diagnosis and overhaul procedures for gasoline and diesel vehicles. (L,M,C) Grades are P/NP Option.

AUTO-52.36 **3 UNITS**

Heating and Air Conditioning Systems

36 LECTURE HOURS
54 LAB HOURS

This course covers a comprehensive study of automotive heating, air conditioning and ventilation systems. Emphasis is placed on heating, cooling, and air conditioning systems, engine cooling system, adjustment procedures, problem diagnosis, system operation with normal service, repair procedures, and introduction to automatic temperature systems. Students are strongly encouraged to have college-level reading, basic mathematics, and computer literacy skills. Grades are P/NP Option.

AUTO-52.40 **4 UNITS**

Brake Systems

54 LECTURE HOURS
54 LAB HOURS

This course covers a comprehensive study of automotive braking systems. Emphasis is placed on brake theory, hydraulic operation, hydraulic control valves, power brake units, electronic control systems and anti-lock brake systems (ABS), industry standards and practices for the inspection, diagnosis, service, and repair of automotive and light truck braking systems. (L,M,C) Grades are P/NP Option.

AUTO-52.41 **4 UNITS**

Alignment and Suspension

54 LECTURE HOURS
54 LAB HOURS

This course covers a comprehensive study of automotive alignment and suspension systems. Emphasis is placed on suspension and steering operating theory, 4-wheel alignment, front and rear-wheel alignment, tire repair and balancing, replacement of suspension and steering components, and rebuilding of steering gears and pumps. Students are strongly encouraged to have college-level reading, basic mathematics, and computer literacy skills. Grades are P/NP Option.

AUTO-52.44 **6 UNITS**

Electrical Systems

74 LECTURE HOURS
108 LAB HOURS

This course covers a comprehensive study of current automotive electrical systems. Emphasis is placed on theory, diagnosis, service and wire repair techniques, fundamentals of circuit construction, ignition systems, charging and starting systems, domestic and import computer management systems, wiring diagrams, multi-meters and scanners. Students are strongly encouraged to have college-level reading, basic mathematics, and computer literacy skills. Grades are P/NP Option.

AUTO-52.45 **4 UNITS**

Engine Diagnosis and Rebuilding

36 LECTURE HOURS
108 LAB HOURS

This course covers a comprehensive study of automotive engine diagnosis and rebuilding. Emphasis is placed on theory of operation, pre-teardown diagnosis, disassembly techniques, engine cleaning methods, measurement tools, component identification, lubrication systems, assembly break-in procedures, and introducing alternative fuel and hybrid engine drivetrains. Students are strongly encouraged to have college-level reading, basic mathematics, and computer literacy skills. Grades are P/NP Option.

AUTO-52.46 **3 UNITS**

Engine Machining and Reconditioning

36 LECTURE HOURS
54 LAB HOURS

This course covers an advanced comprehensive study of automotive engine machining and reconditioning techniques. Emphasis is placed on high performance production machining, machining of engine blocks, cylinder heads, valves and valve seats, connecting rods, cleaning and reassembling techniques, proper disassemble, and precision measurements. This course is intended for students who desire further study and skills working with automotive engine machining and assembly methods. Students are strongly encouraged to have college-level reading, basic mathematics, and computer literacy skills. Grades are P/NP Option.

Co-requisite: AUTO-52.45

AUTO-52.61A **1 UNIT**

Engine Repair Experience

54 LAB HOURS

This course covers individualized advanced techniques with a strong emphasis on specialized training in automotive engine repair. Emphasis is placed on engine failure diagnosis, tear-down, machining and assembly. This course is intended primarily for students with prior practical experience in automotive engine repair. Students are strongly encouraged to have problem solving and computer literacy skills. Grades are P/NP Option.

Co-requisite: AUTO-52.45

AUTO-52.61B **1 UNIT**

Engine Machining/Reconditioning Exp

54 LAB HOURS

This course covers individualized advanced techniques with a strong emphasis on specialized training in automotive engine machining and reconditioning. Emphasis is placed on engine tear-down, in-depth engine machining procedures, assembly component fit and high performance engine considerations. This course is intended primarily for students with prior practical experience in automotive engine machining and reconditioning. Students are strongly encouraged to have problem solving and computer literacy skills. Grades are P/NP Option.

Prerequisite(s): AUTO-52.46

AUTO-52.61C **1 UNIT**

Electrical Systems Experience

54 LAB HOURS

This course covers individualized advanced techniques with a strong emphasis on specialized training in automotive electrical systems. Emphasis is placed on extensive multimeter usage, scan tools, battery and starting test equipment to make diagnostic decisions, and refine skills in reading wiring diagrams. Intended primarily for students with prior practical experience in automotive electrical systems. Students are strongly encouraged to have problem solving and computer literacy skills. Grades are P/NP Option.

Prerequisite(s): AUTO-52.44

AUTO-52.61D **1 UNIT**

Engine Performance Experience

54 LAB HOURS

This course covers individualized advanced techniques with a strong emphasis on specialized training in automotive engine performance. Emphasis is placed on scan tools, lab scopes, wiring diagrams, online resources, off-the-car diagnosis, and efficient use of electronic service manuals. Intended primarily for students with prior practical experience in automotive engine performance. Students are strongly encouraged to have problem solving and computer literacy skills. Grades are P/NP Option.

Prerequisite(s): AUTO-52.44

AUTO-52.62A **1 UNIT**

Auto Transmission/Transaxle Exp

54 LAB HOURS

This course covers individualized advanced techniques with a strong emphasis on specialized training in automotive automatic transmissions and transaxles. Emphasis is placed on diagnosis of mechanical and electrical systems, techniques for pre-assembly, disassembling, and on the road dyno testing of completed transmissions. (C) Grades are P/NP Option.

Co-requisite: AUTO-52.31

AUTO-52.62B **1 UNIT**

Manual Drivetrain/Axles Experience

54 LAB HOURS

This course covers individualized advanced techniques with a strong emphasis on specialized training in automotive manual drivetrains and axles. Emphasis is placed on removal and installation considerations, diagnosis of transmissions, clutches, transfer cases, differentials, and electrical systems used in manual drivetrain and axle systems. (C) Grades are P/NP Option.

Co-requisite: AUTO-52.30

AUTO-52.62C **1 UNIT**

Alignment and Suspension Experience

54 LAB HOURS

This course covers individualized advanced techniques with a strong emphasis on specialized training in automotive alignment and suspension. Emphasis is placed on 4-wheel alignment, tire repair, balancing, replacement of suspension and steering components, electrical diagnosis as it relates to tire pressure monitoring system, and ride control. (C) Grades are P/NP Option.

Co-requisite: AUTO-52.41

Advisory: Students are strongly encouraged to have problem-solving skills and computer literacy skills.

AUTO-52.62D **1 UNIT**

Brakes Experience

54 LAB HOURS

This course covers individualized advanced techniques with a strong emphasis on specialized training in automotive brake systems. Emphasis is placed on diagnosing and repairing disc and drum brake systems, wheel and hub bearings, electrical diagnosis as it relates to anti-lock brake systems (ABS) and traction control. (C) Grades are P/NP Option.

Co-requisite: AUTO-52.40

AUTO-52.62E **1 UNIT**

Heating and Air Conditioning Exp

54 LAB HOURS

This course covers individualized advanced techniques with a strong emphasis on specialized training in automotive heating and air conditioning. Emphasis is placed on recovering and recharging of air conditioning system, heating system, semi/auto air controls, engine cooling system, and electrical diagnosis. (C) Grades are P/NP Option.

Co-requisite: AUTO-52.36

Advisory: Students are strongly encouraged to have problem-solving skills and computer literacy skills.

AUTO-52.81 **2 UNITS**

Hybrid and Alternative Fuel Vehicles

27 LECTURE HOURS
27 LAB HOURS

This course covers a comprehensive study of hybrid and alternative fuel vehicles. Emphasis is placed on safety when using high voltage, maintenance, drivability, inverter power transfer, battery technologies, hydrogen electric power, and fuel cell technology. Labs include performing scheduled hybrid maintenance services. Introduction to hybrid vehicle diagnosis and repair. Development of entry-level skills needed to work on hybrid vehicles. Students are strongly encouraged to have college level reading, basic mathematics, and computer literacy skills. Grades are P/NP Option.

AUTO-53.31 **4 UNITS**

Automatic Transmission/Gas and Diesel Vehicles

54 LECTURE HOURS
54 LAB HOURS

This course covers a comprehensive study of automatic transmissions and transaxles. Emphasis is placed on operating principles, planetary gear sets, hydraulic operations, electronic controls, torque converters, normal maintenance adjustments and service operations, problem diagnosis, and overhaul procedures for automotive and truck applications. Students are strongly encouraged to have college-level reading, basic mathematics, and computer literacy skills. Grades are P/NP Option.

AUTO-53.33 **4 UNITS**

Fuel Systems

36 LECTURE HOURS
108 LAB HOURS

This course covers a comprehensive study of conventional and advanced automotive fuel systems. Emphasis is placed on electronic fuel injection, computerized fuel management systems, 5-gas analyzers and combustion theory. Students are strongly encouraged to have college-level reading, basic mathematics, and computer literacy skills. Grades are P/NP Option.

Advisory: Concurrent enrollment in AUTO-53.44 is recommended. It is also recommended that a student enroll in both AUTO-53.33 and AUTO-53.44 for ASE/BAR Automotive A6 and A8 Engine Performance certification. Students will need this certification for enrollment in AUTO-53.55 (Advanced Tune-up course) and AUTO-95 (CA Smog Licensing course) the following semester.

AUTO-53.55 **5 UNITS**

Advanced Tune-Up

36 LECTURE HOURS
162 LAB HOURS

This course covers a comprehensive study of advanced automotive tune-up. Emphasis is placed on problems pertaining to fuel delivery, ignition, emission, computers and electronic engine controls, wiring systems, and mechanical engine diagnostics. Latest diagnostic strategies and extensive troubleshooting, use of diagnostic test equipment, lab oscilloscopes, scan-tools, and emission analyzers. Students are strongly encouraged to have college-level reading, basic mathematics, and computer literacy skills. Grades are P/NP Option.

Prerequisite(s): AUTO-53.33; AUTO-52.44

AUTO-95 **7 UNITS**

State Emission Control License

117 LECTURE HOURS
30 LAB HOURS

The course prepares students for a Smog Check Inspection/Repair license. Intended for students that possess ASE/BAR certifications in the following areas: A6-Automotive Electrical; A8-Automotive Engine Performance; L1-Advanced Engine Performance and/or students that are currently enrolled in electrical, automotive fuel systems and advanced engine performance/diagnostic courses. This is an intensive review of automotive electrical/electronic, engine mechanical, emission controls, and computer control systems as they relate to automotive emissions controls. This course satisfies the ASE/BAR certification requirement when applying for Smog Check technician licenses and may be used by the applicant in lieu of the ASE certifications. Grades are P/NP Option.

Biology

BIOLOGY

ASSOCIATE IN SCIENCE FOR TRANSFER

The Associate in Science in Biology for Transfer is designed to prepare students for the automatic transfer to California State University institutions with Biology degrees. The Biology program at Yuba College offers a range of courses that fulfill general education and transfer requirements and prepares students for further study in Biology leading to BA, BS, MA, MS and/or Ph.D. degrees.

Associates in Science in Biology for Transfer requirements (as stated in SB1440 law) requires students to complete the following:

- Completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
  a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education - Breadth Requirements.
  b. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district.
- Obtainment of a minimum grade point average of 2.0.
- Students must earn a “C” grade or better in all courses required for the major or area of emphasis.

Students who complete this program should be able to:

1. Analyze data/information in addressing and evaluating problems and issues in making decisions.
2. Understand the purpose of scientific inquiry and the implications and applications of basic scientific principles.
3. Using the Scientific Method, students will be able to correctly interpret experimental data and effectively communicate the findings and implications of that data in writing.

REQUIRED COURSES		UNITS
BIOL 1	Principles of Biology	5
BIOL 2	General Zoology	4
BIOL 3	General Botany	4
CHEM 1A	Introductory Chemistry	5
CHEM 1B	Introductory Chemistry	5
MATH 1A	Single Variable Calculus-Early Transcendentals	4
Complete 8 units from one of the following groups:		
PHYS 2A	General Physics	3
PHYS 3A	General Physics Laboratory	1
PHYS 2B	General Physics	3
PHYS 3B	General Physics Laboratory	1
OR		
PHYS 4A	Mechanics	4
PHYS 4B	Electromagnetism	4
TOTAL UNITS REQUIRED FOR DEGREE MAJOR		**35**

Students earning an AA-T/AS-T degree must complete 60 semester units of coursework eligible for transfer to the CSU including the CSU GE-B for STEM or IGETC for STEM (CSU version), all courses in the major with “C” or better or “P” (pass) grades, and achieve a minimum transferable cumulative GPA of 2.0.

BIOLOGY

ASSOCIATE IN SCIENCE

The Associate of Science Degree in Biology is designed to prepare students for transfer to four-year institutions for pre-professional studies in medical, dental and pharmacy programs. The Biology program at Yuba College offers a range of courses that fulfill general education and transfer requirements and prepares students for further study in Biology leading to BA, BS, MA, MS and/or Ph.D. degrees.

Students who complete this program should be able to:

1. Demonstrate an understanding of the fundamental principles of Biology as it relates to their degree path. These fundamental principles include: cell theory, gene theory and homeostasis. Varied courses can assess these principles at any level of biological hierarchy from molecular structure through organismal structure to complete ecosystems.
2. Demonstrate an understanding of topics revolving around the interactions that organisms have with each other, other organisms and their abiotic surroundings including the flow and use of energy within their environment. Students should show knowledge of larger scale biological topics including diversity, population dynamics, and competition within ecosystems.
3. Apply the scientific method to original or pre-designed biological experiments. Students should be able to create or assess a hypothesis, conduct experiments, correctly interpret results, and effectively communicate findings while relating each step of the scientific method.
4. Show proficiency using biological laboratory techniques practiced within a given course curriculum. Students should show knowledge in applied techniques such as, but not limited to, microscopy, dissection, sterile technique, sample identification and chemical assays. Students will use varied instrumentation to obtain experimental results.

REQUIRED COURSES		UNITS
BIOL 1	Principles of Biology	5
BIOL 2	General Zoology	4
BIOL 3	General Botany	4
CHEM 1A	General Chemistry	5
CHEM 1B	General Chemistry	5

Complete eight units from one of the following groups:

PHYS 2A	General Physics	3
PHYS 3A	General Physics Laboratory	1
PHYS 2B	General Physics	3
PHYS 3B	General Physics Laboratory	1
OR		
PHYS 4A	Mechanics	4
PHYS 4B	Electromagnetism	4

Complete one course from the following:

MATH 1A	Single Variable Calculus I -Early Transcendentals	4
MATH 9	Calculus for Business, Social and Life Science	4
STAT 1	Introduction to Statistical Methods	4

TOTAL UNITS REQUIRED FOR DEGREE MAJOR 35

Students earning an AA/AS degree must complete a minimum of 18 units of General Education requirements, the multicultural graduation requirement, and the health requirement, in addition to the program units listed here. Students must complete a total of 60 degree applicable units to earn an AA or AS. Please see your counselor for additional information.

BIOLOGY-ALLIED HEALTH

ASSOCIATE IN SCIENCE

The Biology-Allied Health degree is designed to provide a broad base of knowledge and skills to support students' development into competent health care professionals. The degree requires parallel many of the prerequires required in allied health programs. A common core of course provides a foundation in human anatomy, human physiology, and general psychology. The options provide an opportunity to focus on a specific allied health career field. Students earning this degree will be well prepared to satisfy the prerequisite course requirements for admission Into a variety of California Community Colleges, California State University, and private college and university undergraduate Allied Health programs such as Nursing (LVN, AND, BSN), Respiratory Care, Radiologic Technology, Physical Therapy Assistant, Occupations Therapy Assistant, and Dental Hygiene as well as graduate Allied Health programs in Physical Therapy and Occupations Therapy. This degree also provides foundational knowledge of human biology, psychology, and communication for other professions in hospitals, health clinics, and medical offices.

Students who complete this program should be able to:

1. Analysis data/Information In addressing and evaluating scientific problems and Issues while making decisions.
2. Use the Scientific Method to correctly Interpret experimental data and effectively communicate the findings and Implications of that data in writing.
3. Demonstrate proficient laboratory techniques within a given Allied Health field.

REQUIRED COURSES		UNITS
BIOL 4	Human Anatomy	4
BIOL 5	Human Physiology	4
PSYCH 1A	General Psychology	3

Choose One Option Below:

Option 1: Pre-Nursing (ADN and BSN)

BIOL 6	Introductory Microbiology	4
HLTH 10	Principles of Nutrition	3
CHEM 2A	Introductory Chemistry ***OR***	5
CHEM 1A	General Chemistry	5
ANTHR2	Cultural Anthropology ***OR***	3
SOCIL 1	Introduction to Sociology ***OR***	3
SOCIL 2	Social Problems ***OR***	3
SOCIL 5	Sociology of Race and Ethnicity	3
SPECH 1	Public Speaking ***OR***	3
SPECH 3	Argumentation and Critical Thinking ***OR***	3
SPECH 6	Small Group Communication ***OR***	3
SPECH 7	Interpersonal Communication	3

PRE-ADN Students must complete the following:

NURS 26	Pharmacology	3
NURS 36	Pathophysiology	4

Pre BSN Students must complete the following:

STAT 1	Introduction to Statistical Methods	4
PSYCH 41	Lifespan Development ***OR***	3
ECE 3	Child Growth and Development	3

OPTION 2: PRE-RESPIRATORY CARE

BIOL 6	Introductory Microbiology	4
CHEM 2A	Introductory Chemistry	5
SPECH 1	Public Speaking ***OR***	3
SPECH 7	Interpersonal Communication	3
NURS 51	Medical Terminology ***OR***	3
PSYCH 41	Lifespan Development ***OR***	3
SOCIL 1	Introduction to Sociology	3

OPTION 3: PRE-RADIOLOGIC TECHNOLOGY

CHEM 2A	Introductory Chemistry ***OR***	5
CHEM 1A	General Chemistry	5
NURS 51	Medical Terminology	3

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OPTION 4: PRE-DENTAL HYGIENE

BIOL 6	Introductory Microbiology	4
CHEM 2A	Introductory Chemistry ***OR***	5
CHEM 1A	General Chemistry	5
CHEM 2B	Introductory Chemistry II ***OR***	4
CHEM 1B	General Chemistry	5
SPECH 1	Public Speaking ***OR***	3
SPECH 6	Small Group Communication ***OR***	3
SPECH 7	Interpersonal Communication	3
HLTH 10	Principles of Nutrition	3
SOCIL 1	Introduction to Sociology	3

OPTION 5: PRE-OCCUPATIONAL THERAPY ASSISTANT

NURS 51	Medical Terminology	3
HLTH 10	Principles of Nutrition	3
PSYCH 41	Lifespan Development	3
SOCIL 1	Introduction to Sociology ***OR***	3
ANTHR 2	Cultural Anthropology	3

OPTION 6: PRE-PHYSICAL THERAPY

CHEM 2A	Introductory Chemistry ***OR***	5
CHEM 1A	General Chemistry	5
CHEM 2B	Introductory Chemistry II ***OR***	4
CHEM 1B	General Chemistry	5
PHYS 2A	General Physics	3
PHYS 3A	General Physics Laboratory	1
PHYS 2B	General Physics	3
PHYS 3B	General Physics Laboratory	1
STAT 1	Introduction to Statistical Methods	4

OPTION 7: PRE-OCCUPATIONAL THERAPY

STAT 1	Introduction to Statistical Methods	4
SOCIL 1	Introduction to Sociology ***OR***	3
ANTHR 2	Cultural Anthropology	3
PSYCH 41	Lifespan Development	3
ART 4A	Drawing and Composition Beginning ***OR***	3
ART 9A	Beginning Painting ***OR***	3
ART 12A	Beginning Ceramics ***OR***	3
ART 14A	Sculpture	3

TOTAL UNITS REQUIRED FOR DEGREE MAJOR 19-36

Students earning an AA/AS degree must complete a minimum of 18 units of General Education requirements, the multicultural graduation requirement, and the health requirement, in addition to the program units listed here. Students must complete a total of 60 degree applicable units to earn an AA or AS. Please see your counselor for additional information

COURSES

BIOL-1 **5 UNITS**

Principles of Biology

TRANSFERABLE TO CSU AND UC
C-ID: BIOL 190; BIOL 135S (BIOL 1, BIOL 2 AND BIOL 3)
54 LECTURE HOURS
108 LAB HOURS

An introduction to biology for majors that emphasizes the molecular, cellular, and environmental processes that are common to most organisms. Topics include an introduction to biomolecules, cell structure, cell reproduction, enzymes, fermentation, respiration, photosynthesis, molecular genetics, heredity, and evolution.

Prerequisite(s): CHEM-1A; MATH-52 or satisfactory score on mathematics placement exam.

Advisory: Background in high school biology is recommended.

BIOL-2 **4 UNITS**

General Zoology

TRANSFERABLE TO CSU AND UC
C-ID: BIOL 150; BIOL 135S (BIOL 1, BIOL 2 AND BIOL 3)
36 LECTURE HOURS
108 LAB HOURS

Applies the concepts introduced in Biology 1 to the study of animals and evolution. Course includes a survey of animal phyla and non-photosynthetic, single-celled, eukaryotic taxa. Specific animal topics include: patterns of diversity and classification, morphology and physiology, life cycles and development, the significance of sexual reproduction, and animal behavior. Evolution topics include speciation, phylogeny, macro- and microevolution, adaptation to environmental and social challenges, and natural selection. Other topics include genetic drift, gene flow, mutation, nonrandom mating, and basic population genetics. Designed for biology majors and related fields, but open to all qualified students. (L) Grades are P/NP option.

Prerequisite(s): BIOL-1; MATH-52 or satisfactory score on Mathematics placement exam.

BIOL-3 **4 UNITS**

General Botany

TRANSFERABLE TO CSU AND UC
C-ID: BIOL 155; BIOL 135S (BIOL 1, BIOL 2 AND BIOL 3)
36 LECTURE HOURS
108 LAB HOURS

Applies the concepts introduced in Biology 1 to the study of plants and general ecology. Topics include morphology, physiology, systematics, and evolutionary trends among cyanobacteria, algae, fungi, and plants. Population, community, and ecosystems dynamics of higher plants will be emphasized. Designed primarily for biology majors and related fields but open to all qualified students.

Prerequisite(s): BIOL-1; MATH-52

BIOL-4 **4 UNITS**

Human Anatomy

TRANSFERABLE TO CSU AND UC
C-ID: BIOL 110B
36 LECTURE HOURS
108 LAB HOURS

An introduction to the gross, microscopic and organizational structure of the human body. Emphasizes the interrelationship between structure and function of cells, tissues, organs, and systems. The course is primarily intended for nursing, allied health, kinesiology, and other health related majors.

Prerequisite(s): BIOL-1 or BIOL-15

BIOL-5 **4 UNITS**

Human Physiology

TRANSFERABLE TO CSU AND UC
C-ID: BIOL 120B
36 LECTURE HOURS
108 LAB HOURS

An introduction to the physiological principles, function, integration and homeostasis of the human body at the cellular, tissue, organ, organ system and organismic levels. Includes physiological topics within the integumentary, skeletal, muscular, nervous, endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary and reproductive systems

Prerequisite(s): BIOL-1 or BIOL-15

BIOL-6 **4 UNITS**

Introductory Microbiology

TRANSFERABLE TO CSU AND UC
36 LECTURE HOURS
108 LAB HOURS

This course covers history, structure, metabolism, genetics, and ecology of microscopic life forms; their relationship to disease, immunology, agriculture, and industry. Laboratory emphasizes the development of techniques for the detection, isolation, and identification of both harmless and pathogenic species. (L,M,C)

Prerequisite(s): BIOL-1 or BIOL-15

BIOL-10 **3 UNITS**

General Biology

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
54 LECTURE HOURS

The science of life for non-science majors. Provides an overview of the world of living organisms including their classification and unifying characteristics. Introduces basic biological processes such as homeostasis, photosynthesis, cellular respiration, DNA function, cellular reproduction, evolution, and ecosystem interactions with an emphasis on the relationship of structure to function and the interrelationships of living organisms. (L) Grades are P/NP option.

Limitations on Enrollment: Course not open for credit to students with credit in BIOL-10L.

BIOL-10L **4 UNITS**

General Biology

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
54 LECTURE HOURS
54 LAB HOURS

The science of life for non-science majors. Provides an overview of the world of living organisms including their classification and unifying characteristics. Introduces basic biological processes such as homeostasis, photosynthesis, cellular respiration, DNA function, cellular reproduction, evolution, and ecosystem interactions with an emphasis on the relationship of structure to function and the interrelationships of living organisms. (L)

Limitations on Enrollment: Course not open for credit to students with credit in BIOL-10.

BIOL-11 **1 UNIT**

General Biology Laboratory

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
54 LAB HOURS

Hands-on laboratory study of biology for non-science majors. Exploration of origin, characteristics, regulation, energy utilization, respiration, and interrelationships of living organisms. (L) Grades are P/NP option

Co-requisite: BIOL-10

Limitations on Enrollment: Not open for credit to students with credit in BIOL-10L

BIOL-15 **4 UNITS**

Bioscience

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
54 LECTURE HOURS
54 LAB HOURS

Introduction to the unifying principles of biology, including the chemistry of life, cell structure and function, energy, genetics, evolution, and organismal structure. (L,C) Grades are P/NP option.

BIOL-24 **3 UNITS**

Human Biology

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
54 LECTURE HOURS

An introduction to general biology of human beings. Emphasis is placed on the concepts, mechanisms and terminology used in anatomy, physiology and ecology. Topics include cell structure and function, human evolution, anatomy and physiology of the organ systems, genetics, and the human impact on the environment. (L)

BIOL-24L **4 UNITS**

Human Biology with Laboratory

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
54 LECTURE HOURS
54 LAB HOURS

An introduction to the general biology of human beings. Emphasis is placed on the concepts, mechanism and terminology used in anatomy, physiology and ecology. Topics include cell structure and function, human evolution, anatomy and physiology of the organ systems, genetics, and the human impact on the environment. The lab portion of the course will provide an introduction to general biology laboratory with an emphasis on humans. Topics include microscopy, cell structure and function, human anatomy and physiology and genetics. Grades are P/NP Option.

BIOL-25 **3 UNITS**

Human Genetics

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

Designed for non-science majors to provide an understanding of basic principles of genetics, current developments in genetics, and the influence of genes and the environment in determining human characteristics. (L) Grades are P/NP Option.

BIOL-30 **3 UNITS**

Emerging Infections and the History of Infections Disease

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

Designed for non-science majors. This course examines current biological threats to societies including emerging and re-emerging diseases (such as AIDS and avian flu) and the release of infectious bio-agents either by terrorists or military organizations. We will also discuss these threats in a historical context by reviewing diseases that have had significant effects on human societies (such as smallpox and polio). The biology of infectious disease and treatment will be covered. (C)

BIOL-34 **1 UNIT**

Active Anatomy

TRANSFERABLE TO CSU
18 LECTURE HOURS

Active Anatomy is designed to engage students in the process of learning human anatomy. Students will work collaboratively to learn, review and discover the anatomy of the human body. Students will participate in activities and games to build anatomy knowledge and understanding.

BIOL-35 **1 UNIT**

Problem Solving in Physiology

TRANSFERABLE TO CSU
18 LECTURE HOURS

A companion course to BIOL 5, Human Physiology; appropriate for those wishing additional review in Physiology, preparing for entrance into career training programs, or concurrent with BIOL 5. Lectures, discussions, and case studies are used to explore difficult concepts such as osmolality, nervous system function, acid-base balance, hormonal control, cardiac function, immunity, and many others. Time will also be allowed for consideration of topics chosen by students. (L,C)

Business and Accounting

BUSINESS ADMINISTRATION 2.0

ASSOCIATE IN SCIENCE FOR TRANSFER

The Associate in Science in Business Administration 2.0 for Transfer degree prepares students to transfer to a CSU institution by completing required major preparatory coursework in Business Administration. This program prepares students for upper division coursework in Business Administration at a CSU institution.

The Associate in Science in Business Administration 2.0 for Transfer degree provides students with the opportunity to complete their freshman/sophomore level classes needed for a Bachelor's degree in Business Administration within the California State University System.

The Associate in Science in Business Administration 2.0 for Transfer requirements (as stated in SB1440 law) requires students to also complete the following:

- A minimum of 18 semester units in the major or area of emphasis as determined by the community college district.
- 60 semester CSU transferable units.
- California State University General Education-Breadth (CSU GE-Breadth) pattern of 39 units; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern of 37 units.
- Obtainment of a minimum grade point average (GPA) of 2.0.
- Earn a grade of "C" or better, or "P" (pass) in all courses required for the major or area of emphasis.

Students who complete this program should be able to:

1. Critical Thinking: Students must demonstrate the ability apply critical thinking skills by analyzing data, by synthesizing complex concepts, or by comparing and contrasting concepts learned in a situational environment. Critical thinking is demonstrated through a variety of written assignments, case studies, and projects.
2. Communication: Students must be able to communicate clearly through written assignments and reports as well as verbal presentations.

REQUIRED COURSES		UNITS
ACCT 1	Principles of Accounting - Financial	4
ACCT 1A	Principles of Accounting - Financial Lab	0.5
ACCT 2L	Principles of Accounting - Managerial	5
ECON 1A	Elementary Economics - Macro	3
ECON 1B	Elementary Economics - Micro	3
GNBUS 18A	Business Law	3
STAT 1	Introduction to Statistical Methods	4
Complete one course from:		
MATH 9	Calculus for Business, Social and Life Sciences	4
MATH 25	Finite Mathematics	3
Complete one course from:		
GNBUS 10	Introduction to Global Business	3
GNBUS 21	Business Communications	3
TOTAL UNITS REQUIRED FOR DEGREE MAJOR		**28.5-29.5**

Students earning an AA-T/AS-T degree must complete 60 semester units of coursework eligible for transfer to the CSU including the CSU GE-B or IGETC (CSU version), all courses in the major with "C" or better or "P" (pass) grades, and achieve a minimum transferable cumulative GPA of 2.0.

ACCOUNTING

ASSOCIATE IN SCIENCE

The Associate of Science Degree in Accounting prepares students for transfer to four year institutions for pre-professional studies in Accounting, Business, Entrepreneurship, Finance, General Business, Marketing, Management and Small Business Management programs. The Accounting program at Yuba College offers a range of courses that prepare students for transfer and further study in Accounting leading to BA, BS, MA, MS and/or Ph.D. degree. Accounting degrees could lead to a career as an Accountant, Accounting Manager, Accounting Officer, Accounting Supervisor, Business Analyst, Certified Public Accountant (CPA), Cost Accountant, General Accountant, Project Accountant or Staff Accountant. The Associate of Science Degree in Accounting prepares students with "job ready skills" that could lead to employment as an Account Clerk, Accounting Assistant, Accounting Associate, Accounting Clerk, Accounting Specialist, Accounting Technician, Accounts Payable Clerk, Accounts Payable Specialist, Accounts Payables Clerk, Accounts Receivable Clerk, Tax Preparer or Bookkeeper. Accordingly, GNBUS 56 (Business Math) and GNBUS 66 (Machine Calculation) classes prepare students with computational, software and office equipment skills necessary for immediate entry into the workforce.

Students who complete this program should be able to:

1. Create accurate, professional, and appropriate accounting documents and reports for the business entity served.
2. Compute financial data using accounting concepts and methods to understand, analyze, and communicate issues in quantitative terms.
3. Analyze accounting data/information in addressing and evaluating problems and issues in making informed business decisions.
4. Demonstrate effective use of technology applicable to the accounting field.

REQUIRED COURSES		UNITS
ACCT 1	Principles of Accounting-Financial	4
ACCT 1A	Principles of Accounting - Financial Lab	0.5
ACCT 2L	Principles of Accounting-Managerial	5
ACCT 3	Computerized Accounting	3
GNBUS 10	Introduction To Global Business	3
GNBUS 18A	Business Law	3
GNBUS 30	Business Computer Applications	3
GNBUS 33	Spreadsheet Application	3

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GNBUS 41	Computer Operating Systems	1
GNBUS 56	Business Mathematics	3
GNBUS 66	Machine Calculation	1.5

TOTAL UNITS REQUIRED FOR DEGREE MAJOR 30

Students earning an AA/AS degree must complete a minimum of 18 units of General Education requirements, the multicultural graduation requirement, and the health requirement, in addition to the program units listed here. Students must complete a total of 60 degree applicable units to earn an AA or AS. Please see your counselor for additional information.

GENERAL BUSINESS MANAGEMENT

ASSOCIATE IN SCIENCE

Students who complete this program should be able to:

1. Demonstrate skills to produce business communications and documents.
2. Solve complex business situations through the application of business, mathematical, and technological skill.
3. Analyze both internal and external data/information in addressing and evaluating problems and issues in making informed business decisions.
4. Formulate solutions to business problems using current and emerging computer applications, records management, and standard business procedures.

REQUIRED COURSES		UNITS
BCA 15	Business Computer Applications - Beginning	3
GNBUS 10	Introduction to Global Business	3
GNBUS 18A	Business Law	3
GNBUS 56	Business Mathematics	3
ECON 1A	Elementary Economics-Macro	3
MGMT 5	Introduction to Supervision ***OR***	3
MGMT 10	Principles of Management	3

Plus 3 units from the following:

ACCT 1L	Principles of Accounting - Financial	4.5
ACCT 2L	Principles of Accounting - Managerial	5
ACCT 6	Individual Income Tax	4
GNBUS 25	Career Planning	3
MGMT 35	Management Psychology	3
OA 52	Business English ***OR***	3
GNBUS 52	Business English	3
SPECH 1	Public Speaking ***OR***	3
SPECH 6	Group Communication	3

TOTAL UNITS REQUIRED FOR DEGREE MAJOR 21

Students earning an AA/AS degree must complete a minimum of 18 units of General Education requirements, the multicultural graduation requirement, and the health requirement, in addition to the program units listed here. Students must complete a total of 60 degree applicable units to earn an AA or AS. Please see your counselor for additional information.

HUMAN RESOURCES

ASSOCIATE IN SCIENCE

Human Resources is a concentration within the field of business administration that has the responsibilities of compensation and benefits, recruitment, disciplinary actions, and keeping up to date with any laws that may affect the company and its employees. Students in this program will explore important issues in human resources management including: changing government and legal requirements, downsizing, attention to and appreciation for diversity, global workforce development, the role of information systems, and changing cultural and economic factors.

Graduates of this degree should qualify for employment opportunities in human resources departments within private industry, city, county, and state level as a human resources assistant; administrative assistants; social and human services assistant; records management assistant; labor relations assistant; training and development assistant.

Upon completion of this degree, students will be able to:

1. Identify the role human resources management has in the Business Industry.
2. Demonstrate the ability to research constantly changing government regulations.
3. Demonstrate the ability to apply analytical methods to business and ethical situations.
4. Demonstrate basic skills used in day to day operation of a common human resource office, such as written communication, data collections, and payroll procedures.
5. Model those attributes necessary for gainful employment in the field of human resources.

REQUIRED COURSES		UNITS
ACCT 9	Business Payroll Procedures	3
ACCT 10A	General Accounting	4
GNBUS 6	Principles of Management	3
GNBUS 8	Human Resource Management	3
GNBUS 9	Organizational Management	3
GNBUS 10	Introduction to Global Business	3
GNBUS 21	Business Communications	3
GNBUS 30	Business Computer Applications	3
GNBUS 41	Computer Operating Systems	1
GNBUS 48	Business Ethics	3
GNBUS 53	Records Management	3

TOTAL UNITS REQUIRED FOR DEGREE MAJOR 32

Students earning an AA/AS degree must complete a minimum of 18 units of General Education requirements, the multicultural graduation requirement, and the health requirement, in addition to the program units listed here. Students must complete a total of 60 degree applicable units to earn an AA or AS. Please see your counselor for additional information.

PERSONNEL MANAGEMENT

ASSOCIATE IN SCIENCE

Students who complete this program should be able to:

1. Demonstrate skills to produce business communications and documents.
2. Solve complex business situations through the application of business, mathematical, and technological skill.
3. Analyze both internal and external data/information in addressing and evaluating problems and issues in making informed business decisions.
4. Formulate solutions to business problems using current and emerging computer applications, records management, and standard business procedures.

REQUIRED COURSES		UNITS
GNBUS 10	Introduction to Global Business	3
GNBUS 18A	Business Law	3
GNBUS 56	Business Mathematics	3
MGMT 5	Introduction to Supervision	3
MGMT 10	Principles of Management	3
MGMT 35	Management Psychology	3

Plus 3 units from the following:

BCA 15	Business Computer Applications - Beginning	3
OA 52	Business English ***OR***	3
GNBUS 52	Business English	3

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PSYCH 1A	General Psychology	3
SPECH 1	Public Speaking	3
SPECH 6	Group Communication	3

TOTAL UNITS REQUIRED FOR DEGREE MAJOR 21

Students earning an AA/AS degree must complete a minimum of 18 units of General Education requirements, the multicultural graduation requirement, and the health requirement, in addition to the program units listed here. Students must complete a total of 60 degree applicable units to earn an AA or AS. Please see your counselor for additional information.

SMALL BUSINESS MANAGEMENT

ASSOCIATE IN SCIENCE

The Small Business Management Associate in Science Degree is primarily for students who plan to manage a small business or work in a small business environment. The Small Business curriculum provides students with the basic understanding of existing business practices. Students will be able to understand and apply the principles of business ethics, social responsibilities of a business, basic functions of management, and the qualifications required in business management and/or ownership.

Students who complete this program should be able to:

1. Demonstrate skills to produce business communications and documents.
2. Solve complex business situations through the application of business, mathematical, and technological skill.
3. Analyze both internal and external data/information in addressing and evaluating problems and issues in making informed business decisions.
4. Formulate solutions to business problems using current and emerging computer applications, records management, and standard business procedures.

REQUIRED COURSES		UNITS
ACCT 3	Computerized Accounting	3
BCA 15	Business Computer Applications - Beginning	3
GNBUS 10	Introduction to Global Business	3
GNBUS 18A	Business Law	3
GNBUS 52	Business English ***OR***	3
OA 52	Business English	3
GNBUS 56	Business Mathematics	3

TOTAL UNITS REQUIRED FOR DEGREE MAJOR 18

Students earning an AA/AS degree must complete a minimum of 18 units of General Education requirements, the multicultural graduation requirement, and the health requirement, in addition to the program units listed here. Students must complete a total of 60 degree applicable units to earn an AA or AS. Please see your counselor for additional information.

ACCOUNTING

CERTIFICATE OF ACHIEVEMENT

The Accounting certificate provides occupational training for students seeking entry-level accounting positions. Successful completions of this certificate could lead to employment as an Account Clerk, Accounting Assistant, Accounting Associate, Accounting Clerk, Payroll Clerk, Accounting Specialist, Accounting Technician, Accounts Payable Clerk, Accounts Payable Specialist, Accounts Payables Clerk, Accounts Receivable Clerk, Tax Preparer pr Bookkeeper. GNBUS 56 (Business Math) and GNBUS 66 (Machine Calculation) classes prepare students with computational, software and office equipment skills necessary for immediate entry into the workforce.

Students who complete this program should be able to:

1. Create accurate, professional, and appropriate accounting documents and reports for the business entity served.
2. Compute financial data using accounting concepts and methods to understand, analyze, and communicate issues in quantitative terms.
3. Analyze accounting data/information in addressing and evaluating problems and issues in making informed business decisions.
4. Demonstrate effective use of technology applicable to the accounting field.

REQUIRED COURSES		UNITS
ACCT 1	Principles of Accounting-Financial	4
ACCT 1A	Principles of Accounting-Financial Lab	0.5
ACCT 3	Computerized Accounting	3
ACCT 6	Individual Income Taxes-Federal/State	4
ACCT 9	Business Payroll Procedures	3
ACCT 10A	General Accounting	4
GNBUS 10	Introduction to Global Business	3
GNBUS 33	Spreadsheet Application	3
GNBUS 56	Business Mathematics	3
GNBUS 66	Machine Calculation	1.5

TOTAL UNITS REQUIRED FOR CERTIFICATE 29

ADMINISTRATIVE ASSISTANT

CERTIFICATE OF ACHIEVEMENT

Students who complete this program should be able to:

1. Demonstrate skills to produce business communications and documents.
2. Solve complex business situations through the application of business, mathematical, and technological skill.
3. Analyze both internal and external data/information in addressing and evaluating problems and issues in making informed business decisions.
4. Formulate solutions to business problems using current and emerging computer applications, records management, and standard business procedures.

REQUIRED COURSES		UNITS
OA 15B	Intermediate Keyboarding	3
OA 17A	Word Processing I	3
OA 17B	Word Processing II	3
OA 22	Machine Calculation	1.5
OA 21	Business Communications	3
OA 52	Business English	3
OA 53	Filing	1
OA 60	General Office Procedures	3
OA 61	Advanced Office Procedures	3

TOTAL UNITS REQUIRED FOR CERTIFICATE 23.5

ADVANCED SMALL BUSINESS MANAGEMENT

CERTIFICATE OF ACHIEVEMENT

REQUIRED COURSES		UNITS
GNBUS 18A	Business Law	3
BCA 15	Business Computer Applications - Beg	3
MGMT 35	Management Psychology	3
MGMT 5	Introduction to Supervision ***OR***	3
MGMT 10	Principles of Management	3

Plus 15 units from the following:

ACCT 1L	Principles of Accounting-Financial ***OR***	4.5
ACCT 10A	General Accounting	4

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GNBUS 10	Intro. to Global Business	3
GNBUS 25	Career Planning	3
GNBUS 56	Business Mathematics	3
OA 52	Business English	3

TOTAL UNITS REQUIRED FOR CERTIFICATE 27

SMALL BUSINESS MANAGEMENT

CERTIFICATE OF ACHIEVEMENT

Students who complete this program should be able to:

1. Demonstrate skills to produce business communications and documents.
2. Solve complex business situations through the application of business, mathematical, and technological skill.
3. Analyze both internal and external data/information in addressing and evaluating problems and issues in making informed business decisions.
4. Formulate solutions to business problems using current and emerging computer applications, records management, and standard business procedures.

REQUIRED COURSES		UNITS
BCA 15	Business Computer Applications - Beginning	3
GNBUS 10	Intro. to Global Business	3
GNBUS 18A	Business Law	3
MGMT 5	Introduction to Supervision ***OR***	3
MGMT 10	Principles of Management	3
MGMT 35	Management Psychology	3
GNBUS 56	Business Mathematics	3
OA 52	Business English	3

TOTAL UNITS REQUIRED FOR CERTIFICATE 15

COURSES

ACCOUNTING

ACCT-1 **4 UNITS**

Principles of Accounting-Financial

TRANSFERABLE TO CSU AND UC
C-ID: ACCT 110 (ACCT1 AND ACCT 1A)
72 LECTURE HOURS

This is the study of accounting as an information system, examining why it is important and how it is used by investors, creditors, and others to make decisions. The course covers the accounting information system, including recording and reporting of business transactions with a focus on the accounting cycle, the application of generally accepted accounting principles, the financial statements, and statement analysis. Includes issues relating to asset, liability, and equity valuation, revenue and expense recognition, cash flow, internal controls, and ethics. (L,M,C)

Prerequisite(s): GNBUS-30 or GNBUS-33

Co-requisite: ACCT-1A

Entrance Requirement(s): Students are strongly recommended to take ACCT-10A prior to this pass.

ACCT-1A **0.5 UNITS**

Principles of Accounting - Financial Lab

TRANSFERABLE TO CSU AND UC
C-ID: ACCT 110 (ACCT 1 AND ACCT 1A)
27 LAB HOURS

Laboratory to accompany Principles of Accounting - Financial (ACCT- 1). Students use the computer as a tool in solving accounting problems. Includes spreadsheets and computerized accounting system. Each student is required to have some type of storage device to save their files on. (L,M)

Co-requisite: ACCT-1

ACCT-2L **5 UNITS**

Principles of Accounting-Managerial

TRANSFERABLE TO CSU AND UC
C-ID: ACCT 120
72 LECTURE HOURS
54 LAB HOURS

Emphasizes accounting principles and tools used by management in decision-making, planning, directing and controlling operations. Focuses on cost terms and concepts, cost behavior, cost structure and cost-volume-profit analysis. Includes budgetary techniques, issues relating to cost systems, cost control, profit planning, and performance analysis for manufacturing and service environments. Students will utilize computer applications as a tool in preparing and analyzing managerial related accounting reports. (L,M,C)

Prerequisite(s): GNBUS-30 or GNBUS-33; ACCT-1; ACCT-1A

ACCT-3 **3 UNITS**

Computerized Accounting

TRANSFERABLE TO CSU
45 LECTURE HOURS
27 LAB HOURS

Computerized accounting using QuickBooks Pro. Basic through intermediate features for small and medium size businesses including banking, sales and customers, purchases and vendors, inventory, reports and graphs. Application of all aspects of accounting cycle.

Prerequisite(s): ACCT-10A or ACCT-1 or ACCT-2L

ACCT-6 **4 UNITS**

Individual Income Taxes-Federal/State

TRANSFERABLE TO CSU
72 LECTURE HOURS

Individual income tax preparation, forms and computations; business and professional returns; federal and state returns. Individual Income Taxes - Federal/State (ACCT- 6) is a CTEC approved course, which fulfills the 60-hour "qualifying education" requirement for tax preparers. A listing of additional requirements to register as a tax preparer may be obtained by contacting CTEC at P.O. Box 2890, Sacramento, CA 95812-2890, toll-free by phone at (877) 850-2832, or on the Internet at www.ctec.org (L,M)

Prerequisite(s): ACCT-10A or prior knowledge of accounting terminology/concepts recommended.

ACCT-9 **3 UNITS**

Business Payroll Procedures

TRANSFERABLE TO CSU
48 LECTURE HOURS
18 LAB HOURS

Introduction to payroll terminology, procedures, calculations, record-keeping, timelines, percentages, limitations, and laws that relate to maintaining payroll for business firms in California; computerized payroll procedures will also be presented. Prior accounting knowledge is not necessary. (L,M)

ACCT-10A **4 UNITS**

General Accounting

TRANSFERABLE TO CSU
72 LECTURE HOURS

Introductory accounting course covering accounting principles and practices, the complete accounting cycle, and creation of financial reports. Use of proper procedures in the General Journal, Special Journals, General Ledger and Subsidiary Ledgers. Includes payroll processes, and proper financial reporting. (L,M)

GENERAL BUSINESS

GNBUS-2 **3 UNITS**

Concepts In Personal Finance

TRANSFERABLE TO BOTH CSU AND CSU
54 LECTURE HOURS

This course is designed to assist individuals in analyzing their financial affairs. Elements and conceptual basis of financial planning, analysis, and decision making in areas of budgeting, taxes, borrowing, money management, insurance, investments, and retirement will be examined with an emphasis on principles to develop students' economic decision making. Grades are P/NP Option.

GNBUS-5 **3 UNITS**

Introduction to Supervision

TRANSFERABLE TO CSU
54 LECTURE HOURS

Introduction to the role of the supervisor and understanding of the basic fundamentals of supervision. A practical course designed for the potential working supervisor. (L)

GNBUS-6 **3 UNITS**

Principles of Management

TRANSFERABLE TO CSU
54 LECTURE HOURS

Managerial and organizational theory and practice; planning, organizing, influencing and controlling. Focusing on the role, functions, and responsibilities of management in a contemporary organization. (L)

GNBUS-7 **3 UNITS**

Entrepreneurship

TRANSFERABLE TO CSU
54 LECTURE HOURS

Principles of establishing and managing a small business, including the preparation of a business plan; emphasis on goal-setting, types of business organizations, obtaining licenses and permits, financing options, accounting aspects, legal requirements, managing the enterprise, and other aspects in business entrepreneurship. (L,M)

Limitations on Enrollment: Course not open for credit to students with credit in AG-14.

GNBUS-8 **3 UNITS**

Human Resource Management

TRANSFERABLE TO CSU
54 LECTURE HOURS

Foundations for the contemporary theory and practices relating to the management of people, managing human resources within an organization, and basic personnel processes. (L)

GNBUS-9 **3 UNITS**

Organizational Management

TRANSFERABLE TO CSU
54 LECTURE HOURS

Assists students in understanding and applying theories of management and psychology to human behavior in the workplace. Increases awareness of individual and group behaviors, conflict, resolution, and leadership and organizational dynamics. (L)

GNBUS-10 **3 UNITS**

Introduction To Global Business

TRANSFERABLE TO CSU AND UC
C-ID: BUS 110
54 LECTURE HOURS

Survey of the diverse activities of businesses operating in a changing global environment. Examines how culture and customs, global economic systems, technology, legal factors, global business strategies, trade barriers, finance, and human relations interact to affect U.S. business policies and practices. Covers factors that affect a business' ability to achieve its organizational goals and competitive advantage including entrepreneurship, organizational design and structure, leadership, human resource management and practices, communications, leadership and innovation, marketing and consumer behavior, e-business, legal issues, accounting, financial management and investing options. (L)

GNBUS-18A **3 UNITS**

Business Law

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
C-ID: BUS 125
54 LECTURE HOURS

Law and its relationship to business. Laws and regulations affecting managerial decisions. Dispute resolution, torts, contracts, government regulations and other area of commercial law explored through case analysis. Other legal concepts explored include ethics, employment, consumer transactions, competition, the environment, agency, and business organizations. (L)

GNBUS-21 **3 UNITS**

Business Communications

TRANSFERABLE TO CSU
C-ID: BUS 115
54 LECTURE HOURS

Application of principles of ethical and effective communication to the creation of letters, memos, e-mails, and written and oral reports for a variety of business situations. Development and refinement of written and oral business communication skills including planning, composing, editing, and revising business documents using word processing software for written documents and presentation software to create and deliver professional oral reports. This course is designed for students who already have college-level writing skills.

Prerequisite(s): ENGL-1A

Entrance Requirement(s): Word processing and keyboard skill, no handwritten work is accepted.

Limitations on Enrollment: Course not open for credit to students with credit in OA-21.

GNBUS-30 **3 UNITS**

Business Computer Applications

TRANSFERABLE TO CSU
45 LECTURE HOURS
27 LAB HOURS

Develop beginning to intermediate skills using computer office applications. Basic features of word processing, spreadsheet, and presentation software are covered. Hands-on activities will focus on creating simple, integrated documents for business, personal and academic purposes. Typing skills are advised. (L,M)

GNBUS-32 **3 UNITS**

Word Processing Applications

TRANSFERABLE TO CSU
36 LECTURE HOURS
54 LAB HOURS

Basic and advanced features of word processing. Topics include creating, editing, and saving documents; file management; basic text, paragraph, and page formatting; page numbering; printing options; tables and columns; advanced formatting, chart forms, graphics, borders, shading, drawing, macros, sort, and merge features. (L) Grades are P/NP Option.

GNBUS-33 **3 UNITS**

Spreadsheet Application

TRANSFERABLE TO CSU
36 LECTURE HOURS
54 LAB HOURS

Learn features of spreadsheet software applications using the interface, working with text labels, values, formulas, functions, editing and formatting. Spreadsheets designed for decision-making, creating charts, list and data management. Includes advanced formatting options, financial functions, 3-D formulas, and other advanced functions. Hands-on coursework that focuses on business, academic and personal applications. (L,M,C)

GNBUS-34 **1 UNIT**

Presentation Application

TRANSFERABLE TO CSU
12 LECTURE HOURS
18 LAB HOURS

Learn the basics of presentation application software and more: create presentations, add visuals, include elements and data from other sources, modify master slides and timings. Customize, prepare for distribution and deliver presentations. Familiarity with keyboard recommended. Grades are P/NP Only.

GNBUS-37 **1 UNIT**

Introduction To Database Applications

TRANSFERABLE TO CSU
12 LECTURE HOURS
18 LAB HOURS

Use database applications to develop simple to complex databases in an operating system environment. Design databases, sort and filter records, create input forms and custom-formatted reports. (L,M,C) Grades are P/NP Only.

GNBUS-41 **1 UNIT**

Computer Operating Systems

TRANSFERABLE TO CSU
12 LECTURE HOURS
18 LAB HOURS

Gain a comprehensive understanding of computer operating systems, including the new features of the operating system. Focuses on daily tasks such as creating and organizing files, customizing the workspace, fine-tuning performance, maintaining and protecting your computer. Additional topics include using the internet, basic e-mail skills, performing searches and networking. Students are challenged to apply what they learn to real-life tasks, preparing them to easily transfer skills to new situations. (L,M) Grades are P/NP Only.

GNBUS-42 **3 UNITS**

Internet Literacy and Safety

TRANSFERABLE TO CSU
54 LECTURE HOURS

Exposes students to a wide range of topics related to the Internet. Students will learn how to perform basic searches, work with email, manage and tune the web browser, and make the Internet a practical and functional part of everyday life. Designed to ease the fears of the novice and enhance the ability of the intermediate user. (L)

GNBUS-48 **3 UNITS**

Business Ethics

TRANSFERABLE TO CSU
54 LECTURE HOURS

This course will provide an overview of the ethical standards pertaining to the purpose of corporations and the appropriate responsibility of their managers, accountants, and human resources. Students will learn to question critically, analyze using the IRAC method of analysis, challenge ethical and moral standards, and apply compromise to business and professional behavior. Grades are P/NP Option.

Prerequisite(s): ENGL-1A

GNBUS-49 **3 UNITS**

Introduction to Health Care Systems

TRANSFERABLE TO CSU
54 LECTURE HOURS

This course will provide an overview of the United States healthcare system from historical, organizational, financial, and administrative perspectives. This course will analyze current health issues, such as cost, access, technology, current laws, ethics, and quality of care. Grades are P/NP Option.

GNBUS-52 **3 UNITS**

Business English

54 LECTURE HOURS

A review of English grammar with applications for written and oral business communications. (L)

GNBUS-53 **3 UNITS**

Records Management

45 LECTURE HOURS
27 LAB HOURS

This course introduces students to the increasingly complex field of records management. The class emphasizes the importance of effective records management for all types of documents from their creation or receipt, through their processing, distribution, organization, storage, and retrieval, to their ultimate disposition. Students will investigate the management functions necessary to operate a records management program effectively. (L,C)

GNBUS-55A **3 UNITS**

Beginning Keyboarding

36 LECTURE HOURS
54 LAB HOURS

Acquire beginning level keyboarding skills and document formatting. (L,C)

Limitations on Enrollment: Course not open for credit to students with credit in OA-15A-1, OA-15A-2, and OA-15A3.

GNBUS-55B **3 UNITS**

Intermediate Keyboarding

36 LECTURE HOURS
54 LAB HOURS

Refinement of basic keyboarding and document formatting skills to more advanced speed and accuracy levels. (L,C) Grades are P/NP Option.

Prerequisite(s): OA-15A or ability to key at 30 net words a minute.

Limitations on Enrollment: Course not open for credit to students with credit in OA-15B-1, OA-15B-2, and OA-15B-3.

GNBUS-56 **3 UNITS**

Business Mathematics

54 LECTURE HOURS

Math for accounting, management, real estate and marketing. Topics include: payroll, inventory controls, trade and cash discounts, simple and compound interest, present value, annuities and sinking funds, discounting of notes, buying and selling of mutual funds and stocks, depreciation, financial statements and real estate loans. (L,M,C) Grades are P/NP Option.

GNBUS-60 **3 UNITS**

General Office Procedures

54 LECTURE HOURS

Skills and procedures necessary in an automated office. Office information systems, including technology and procedures, telecommunications, information processing, mail and phone systems, time management, public relations, human relations skills, and ethics. (L,M) Grades are P/NP Option.

Prerequisite(s): GNBUS-55A

Limitations on Enrollment: Course not open for credit to students with credit in OA-60.

GNBUS-61 **3 UNITS**

Advanced Office Procedures

54 LECTURE HOURS

Develop and apply advanced level of principles, knowledge, and skills necessary for the proper operation of the automated office. Emphasis is placed on higher level administrative assistant skills such as analysis, communication, decision-making, and supervision principles. (L,M) Grades are P/NP Option.

Prerequisite(s): GNBUS-55A; GNBUS-560

GNBUS-63 **3 UNITS**

Legal Office Procedures

36 LECTURE HOURS
54 LAB HOURS

This class explores the legal office environment, current legal office procedures, and preparation of legal documents using up-to-date office technology. (L,M,C)

Entrance Requirement(s): GNBUS-32 and GNBUS-15A are recommended.

GNBUS-64 **3 UNITS**

Medical Word Processing

36 LECTURE HOURS
54 LAB HOURS

Medical document editing, utilizing partial speech recognition documentation/voice processing and transcription from physician dictation. Course work will encompass general medical/surgical fields and specialties such as OB-GYN, pediatrics, orthopedics, and cardiovascular medicine. (L,C)

Prerequisite(s): GNBUS-32; GNBUS-52

GNBUS-65 **3 UNITS**

Medical Office Procedures

36 LECTURE HOURS
54 LAB HOURS

Students will learn the role of a front office administrative assistant by mastering medical office duties and becoming proficient in the creation and maintenance of medical records. (L,M,C)

Prerequisite(s): GNBUS-55A

GNBUS-66 **1.5 UNITS**

Machine Calculation

18 LECTURE HOURS
27 LAB HOURS

Skill development in the operation of the electronic display and printing calculators. Functions include: addition, subtraction, multiplication, division, memory, percentages, and interest calculations to solve typical business problems. Speed and accuracy by touch method emphasized. (L,M) Grades are P/NP Option.

Chemistry

CHEMISTRY

ASSOCIATE IN SCIENCE FOR TRANSFER

The Associate in Science in Chemistry for Transfer is designed for students who wish to transfer into the California State University (CSU) system to complete a Bachelor's Degree in Chemistry.

Pursuant to SB 1440, students completing an AS-T degree are guaranteed admission to the CSU system, but not to a particular campus or major. The AS-T Degree in Chemistry will offer the knowledge and ability to be successful in the completion of Bachelor's Degree in Chemistry and may help prepare you for Bachelor's Degrees in biochemistry and a variety of science or engineering related fields. Students transferring to a CSU campus that does accept the AS-T will be required to complete no more than 60 units after transfer to earn a Bachelor's Degree. This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. In all cases, students should check with a counselor for more information on university admission and transfer requirements.

To earn the AS-T degree in Chemistry, students must meet the following requirements:

- Completion of the major requirements with grades of C or better;
- Completion of 60 units of CSU transferable courses with a minimum of 2.0 GPA (please check with a counselor for more

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information; some majors or CSUs may require a higher GPA);

- Verified completion of either the California State University General Education Breadth pattern (CSU GE) or the Intersegmental General Education Transfer Curriculum (IGETC) (Please check with a counselor for more information).

Students who complete this program should be able to:

1. Recognize and implement chemical symbolism, notation, nomenclature and vocabulary.
2. Perform chemistry calculations and demonstrate quantitative reasoning.
3. Sort and apply chemical data and information; demonstrate deductive reasoning.
4. Apply chemistry concepts; demonstrate inductive reasoning.
5. Conduct chemistry laboratory operations and demonstrate manual skills.

REQUIRED COURSES		UNITS
CHEM 1A	General Chemistry	5
CHEM 1B	General Chemistry	5
CHEM 18A	Organic Chemistry for Health & Life Sciences I	4
CHEM 18B	Organic Chemistry for Health & Life Sciences II	4
PHYS 4A	Mechanics	4
PHYS 4B	Electromagnetism	4
MATH 1A	Single Variable Calculus-I Early Transcendentals	4
MATH 1B	Single Variable Calculus-II Early Transcendentals	4
TOTAL UNITS REQUIRED FOR DEGREE MAJOR		**34**

Students earning an AA-T/AS-T degree must complete 60 semester units of coursework eligible for transfer to the CSU including the IGETC for STEM (CSU version), all courses in the major with "C" or better or "P" (pass) grades, and achieve a minimum transferable cumulative GPA of 2.0

CHEMISTRY

ASSOCIATE IN SCIENCE

The Associate of Science Degree in Chemistry is designed to prepare students for transfer to four-year colleges or universities. The Degree is designed for pre-professional studies in medical and dental programs. The program of study may also meet course requirements for Bachelor's of Science Degrees with emphasis in environmental chemistry, forensic science and pharmaceutical chemistry. in all cases, students should consult with a counselor for more information on university admission and transfer requirements.

Students who complete this program should be able to:

1. Recognize and implement chemical symbolism, notation, nomenclature and vocabulary.
2. Perform chemistry calculations and demonstrate quantitative reasoning.
3. Apply chemistry concepts; demonstrate inductive reasoning.
4. Conduct chemistry laboratory operations and demonstrate manual skills.

REQUIRED COURSES		UNITS
CHEM 1A	General Chemistry	5
CHEM 1B	General Chemistry	5
CHEM 18A	Organic Chemistry for Health & Life Sciences I	4
CHEM 18B	Organic Chemistry for Health & Life Sciences II	4
MATH 1A	Single Variable Calculus-I Early Transcendentals	4
MATH 1B	Single Variable Calculus-II Early Transcendentals	4

Complete eight units from one of the following groups:

PHYS 2A	General Physics	3
PHYS 3A	General Physics Lab	1
PHYS 2B	General Physics	3
PHYS 3B	General Physics Lab	1
OR		
PHYS 4A	Mechanics	4
PHYS 4B	Electromagnetism	4
TOTAL UNITS REQUIRED FOR DEGREE MAJOR		**34**

Students earning an AA/AS degree must complete a minimum of 18 units of General Education requirements, the multicultural graduation requirement, and the health requirement, in addition to the program units listed here. Students must complete a total of 60 degree applicable units to earn an AA or AS. Please see your counselor for additional information.

COURSES

CHEM-1A **5 UNITS**

General Chemistry

TRANSFERABLE TO CSU AND UC
C-ID: CHEM 110; CHEM 120S (CHEM 1A AND CHEM 1B)
54 LECTURE HOURS
108 LAB HOURS

Students will explore the fundamental principles of inorganic chemistry including the nomenclature of inorganic compounds, chemical formulas, equations and reactions; stoichiometry; structure of atoms, ions, and molecules and the periodic table; oxidation-reduction and acid-base reactions; gas laws; thermochemistry and equilibrium. Laboratory techniques in the investigation of these chemical systems will be extensively developed, including experiments utilizing calorimetry to determine the enthalpy change associated with physical and chemical processes, fundamental gas laws analyzing pressure, volume, and temperature relationships, and acid-base chemistry utilizing titration analysis. (L,M)

Prerequisite(s): MATH-52; CHEM-2A or High school chemistry with a grade of "C" grade or better AND a passing score on the Chemistry Assessment Examination.

CHEM-1B **5 UNITS**

General Chemistry

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
C-ID: CHEM 120S (CHEM 1A AND CHEM 1B)
54 LECTURE HOURS

Continuation of the exploration and application of the fundamental principles of chemistry developed in CHEM 1A. Topics include intermolecular forces, solutions, colligative properties, kinetics; further aspects of equilibrium including acid-base and solubility equilibrium, thermodynamics, electrochemistry, descriptive chemistry, and qualitative analysis; coordination chemistry; nuclear chemistry and an introduction to organic chemistry. Laboratory techniques in the investigation of these chemical systems will be extensively developed. (L,M)

Prerequisite(s): CHEM-1A

CHEM-2A **5 UNITS**

Introductory Chemistry I

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
C-ID: CHEM 101
54 LECTURE HOURS
108 LAB HOURS

Introduction to fundamental principles of inorganic chemistry; structure and bonding, nomenclature, chemical equations and reactions, stoichiometry, acids, bases, and chemical equilibrium, redox, gases, solutions, and nuclear chemistry. (L,M)

Prerequisite(s): MATH-101 or MATH-101B

Limitations on Enrollment: Course not open for credit for students with credit in CHEM-1A.

CHEM-2B **4 UNITS**

Introductory Chemistry II

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
C-ID: CHEM 102
54 LECTURE HOURS
54 LAB HOURS

Introduction to fundamental concepts of organic and biochemistry. Topics of instruction include (1)structure, nomenclature, and reactions of some organic compounds and drugs, (2)stereochemistry, (3) structure and metabolism of carbohydrates, lipids, proteins, enzyme activity and inhibition, nucleic acids and DNA, and (4)bioenergetics. Completion of this course along with CHEM 2A is designed to satisfy the requirements of those allied-health career programs which require two semesters of chemistry. (L,M)

Prerequisite(s): CHEM-1A or CHEM-2A

CHEM-10 **3 UNITS**

Concepts of Chemistry

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
54 LECTURE HOURS

A survey of basic concepts of chemistry. Designed for non-science majors desiring an introduction to fundamental chemistry concepts and skills. Not intended for students who will enroll in subsequent chemistry coursework. (L)

CHEM-18A **4 UNITS**

Organic Chemistry for Health and Life Sciences

TRANSFERABLE TO CSU AND UC
C-ID: CHEM 150; CHEM 160S (CHEM 18A AND CHEM 18B)
54 LECTURE HOURS
54 LAB HOURS

The first semester of a one-year course in organic chemistry designed for students planning professional school studies in health and life sciences. A rigorous, in-depth presentation of basic principles with emphasis on reaction mechanisms, multi-step synthesis, stereochemistry and spectroscopy and preparation and reactions of nonaromatic hydrocarbons, haloalkanes, reactions of alkenes and alkynes, alcohols, ethers and organometallic compounds. Reactions include SN1, SN2, E1 and E2.

Prerequisite(s): CHEM-1B

CHEM-18B **4 UNITS**

Organic Chemistry for Health and Life Sciences

TRANSFERABLE TO CSU AND UC
C-ID: CHEM 160S (CHEM 18A AND CHEM 18B)
54 LECTURE HOURS
54 LAB HOURS

A continuation of CHEM 18A. Designed for students planning professional school studies in health and life sciences with emphasis on reactions of aromatic hydrocarbons; aldehydes and ketones; the preparation, reactions and identification of carboxylic acids and their derivatives; alkyl and acyl amines; B-dicarbonyl compounds; and various classes of naturally occurring, biologically important compounds.

Prerequisite(s): CHEM-18A

Communication Studies

(See SPEECH)

Computer Science

COMPUTER SCIENCE

ASSOCIATE IN SCIENCE FOR TRANSFER

The Computer Science AS-T degree curriculum focuses on computer architecture and object oriented programming fundamentals including algorithm design, problem analysis, system design, and testing. The Computer Science AS-T degree targets four-year university transfer students interested in software system design and programming as well as those students seeking marketable programming skills aimed towards real-world application and innovation.

Computer Science is a broad field of study with an almost unlimited variety of technical career opportunities in the areas of research, design, technical systems, and network applications. The Computer Science department serves four-year transfer students and those students seeking professional or vocational training. Trained professionals are in high demand due to proficient skills in analytical analysis, problem solving, and critical thinking. Computer Science students typically transfer to four-year universities to complete a Bachelor of Science degree in Computer Science or related fields.

The following is required for the Associate in Science in Computer for Transfer Degree (pursuant to SB1440, section 66746):

1. Completion of minimum 29 semester units in the major as detailed in the program section of the catalog for Computer Science. All courses in the major must be completed with a grade of “C” or better.
2. Completion of 60 CSU-transferable semester units.
3. California State University General Education - Breadth (CSU GE-Breath) pattern 39 units; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern of 37 units.
4. Obtainment of a minimum grade point average (GPA) of 2.0.
5. Earn a grade of “C” or better in all courses required for the major or area of emphasis.

Students should consult a counselor for more information on university admission and transfer requirements.

Students who complete this program should be able to:

1. Demonstrate analysis, specification, design, implementation, and testing skills resulting in quality computer software solutions. Students will use data structures, algorithms, programming languages, and software engineering techniques to implement significant programming projects.

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2. Demonstrate the ability to analyze relevant data, and critically evaluate object oriented programming design and data structures.
3. Clearly and effectively communicate program designs and demonstrate the ability to create presentations appropriate to presented materials. Students will organize and communicate design ideas showing consistent use of appropriate code and design format.

REQUIRED COURSES		UNITS
COMSC 2	Computer Assembly Language	3
COMSC 9A	C++ Programming ***OR***	4
COMSC 12	JAVA Programming	3
COMSC 9B	Data Structures	4
COMSC 15	Discrete Structures for Computer Science	3
MATH 1A	Single Variable Calculus - Early Transcendentals	4
MATH 1B	Single Variable Calculus - Early Transcendentals	4
PHYS 4A	Mechanics	4
PHYS 4B	Electromagnetism	4
TOTAL UNITS REQUIRED FOR DEGREE MAJOR		**29-30**

Students earning an AA-T/AS-T degree must complete 60 semester units of coursework eligible for transfer to the CSU including IGETC (CSU version), all courses in the major with "C" or better or "P" (pass) grades, and achieve a minimum transferable cumulative GPA of 2.0.

COMPUTER SCIENCE

ASSOCIATE IN SCIENCE

The AS degree program in computer science is designed for students transferring to a four-year educational institute. The study of Computer science provides the theoretical foundations of computation application design and information processing combined with skills needed for system design implementation. Courses Course work covers programming fundamentals, data structures, discrete mathematics and computer architecture.

Computer Science is a broad field of study with an almost unlimited variety of technical career opportunities in the areas of research, design, technical system, and network applications. The Associate of Science degree in Computer Science prepares students for transfer to a four year institution as well as vocational training skills necessary for productivity in multiple computer disciplines.

Students who complete this program should be able to:

1. Demonstrate a theoretical skills necessary to adapt to technological development and changes in the field of Computer Science.
2. Demonstrate the ability to design and implement efficient and well organized computer applications.
3. Demonstrate the ability to communicate and document ideas and results in an efficient, well organized manner.

REQUIRED COURSES		UNITS
COMSC 9A	C++ Programming and	4
COMSC 9B	Data Structures ***OR***	4
COMSC 11	Advanced C++ Programming	3
Complete a minimum of 12 units from the following:		
COMSC 2	Computer Assembly Language	3
COMSC 5	Introduction to UNIX Operating System	3
COMSC 6	BASIC Programming	3
COMSC 7	Intro. to Visual Basic Programming	3
COMSC 8	Digital Logic Fundamentals	4
COMSC 9B	Data Structures	4
COMSC 10L	Computer Literacy	3
COMSC 11	Advanced C++ Programming	3
COMSC 12	JAVA Programming	3
COMSC 15	Discrete Structures for Computer Science	3
TOTAL UNITS REQUIRED FOR DEGREE MAJOR		**19-20**

Students earning an AA/AS degree must complete a minimum of 18 units of General Education requirements, the multicultural graduation requirement, and the health requirement, in addition to the program units listed here. Students must complete a total of 60 degree applicable units to earn an AA or AS. Please see your counselor for additional information.

COMPUTER SCIENCE

CERTIFICATE OF ACHIEVEMENT

The Certificate of Achievement in computer science provides students with fundamental skills in software engineering, information processing, and application design necessary to for entry level positions as application programmers and skilled users for scientific and business industry.

Students who complete this program should be able to:

1. Demonstrate a theoretical skills necessary to adapt to technological development and changes in the field of Computer Science
2. Demonstrate the ability to design and implement efficient and well organized computer applications.
3. Demonstrate the ability to communicate and document ideas and results in an efficient, well organized manner.

REQUIRED COURSES		UNITS
COMSC 9A	C++ Programming	4
Complete a minimum of 15 units from the following:		
COMSC 2	Computer Assembly Language	3
COMSC5	Introduction to UNIX Operating System	3
COMSC 6	Basic Language Programming	3
COMSC 7	Intro. to Visual Basic Programming	3
COMSC9B	Data Structures	4
COMSC 10L	Computer Literacy	3
COMSC 11	Advanced C++ Programming	3
COMSC 12	JAVA Programming	3
COMSC 15	Discrete Structures for Computer Science	3
TOTAL UNITS REQUIRED FOR CERTIFICATE		**19**

COURSES

COMSC-2 **3 UNITS**

Computer Assembly Language

TRANSFERABLE TO CSU AND UC
C-ID: COMP 142
36 LECTURE HOURS
54 LAB HOURS

Basic operating principles and structure of digital computers including addressing mode, stack manipulation, interrupt processing, fixed and floating point formats, subroutines, features of assemblers, directives, symbol tables, and macros. Programs are written using typical operating systems and machine language for typical modern processors. (L,M,C) Grades are P/NP Option.

COMSC-5 **3 UNITS**

Introduction to UNIX Operating System

TRANSFERABLE TO CSU
36 LECTURE HOURS
54 LAB HOURS

Comprehensive introduction to the UNIX operating system. Topics to include system programming and management covering file protection, directory control, and vi. Creation of make files and source code

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control concepts. Use of operating system calls and dynamic memory allocation. System libraries, relocation, and linking concepts including handling of symbol tables. I/O redirection, network utilities, managing processes, pipes, regular expressions, and shell programming. Grades are P/NP Option.

Prerequisite(s): COMSC-9A

COMSC-6 **3 UNITS**

Basic Language Programming

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

Introduction to programming using object-orientated programming techniques, including problem solving, algorithm development, coding solutions, program life cycle, and source code maintenance. (L,M)

COMSC-7 **3 UNITS**

Introduction To Visual Basic Programming

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

Introduction to event-driven programming in the Windows environment using Microsoft Visual BASIC.Net. Intended for those with prior experience or course work in at least one formal programming language. Includes objects, properties, user interface, forms, event procedures, custom controls, graphics, data access, report creation, and debugging methods. (L,M)

COMSC-8 **4 UNITS**

Digital Logic Fundamentals

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS
54 LAB HOURS

Properties of switching algebra. Minimization of algebraic function using Karnaugh maps and DeMorgan's theorem. Design of combinational logic networks. Design of sequential logic devices including flip-flops, registers, and counters. Analysis and applications of digital devices. Analysis and design of synchronous and asynchronous sequential state machines, state table derivation and reduction. Use of HDL compilers, schematic capture, TTL circuit implementation, and logic simulations tools. Logic design implementation using PLD, FPGA, and TTL. Grades are P/NP Option.

Prerequisite(s): COMSC-9A; MATH-52 or MATH-52B

COMSC-9A **4 UNITS**

C++ Programming

TRANSFERABLE TO CSU AND UC
C-ID: COMP 122
54 LECTURE HOURS
54 LAB HOURS

Introduction to the C++ programming language. Emphasis on structured programming methods, object-oriented design, and structured data types. The programming cycle from problem solving to debugging is emphasized. (L,M)

Entrance Requirement(s): COMSC-6 recommended

COMSC-9B **4 UNITS**

Data Structures

TRANSFERABLE TO CSU AND UC
C-ID: COMP 132
54 LECTURE HOURS
54 LAB HOURS

A continuation of Computer Science 9A using Object Oriented Programming techniques. An introduction to abstract data types, algorithm analysis, data structures including lists, hash tables, trees, and graphs. Required for Computer Science majors. (L,M)

Prerequisite(s): COMSC-9A

COMSC-10L **3 UNITS**

Computer Literacy

TRANSFERABLE TO CSU AND UC
36 LECTURE HOURS
54 LAB HOURS

Introduction to the computer and its applications. A survey of the history of computers, hardware, software, social aspects and problem-solving techniques. Hands-on microcomputer object-oriented programming will be examined.

Other: Course is Open Entry/Open Exit

COMSC-11 **3 UNITS**

Advanced C++ Programming

TRANSFERABLE TO CSU AND UC
36 LECTURE HOURS
54 LAB HOURS

Topics in object-oriented programming using the C++ programming language, including C++ programming techniques, streaming input/output, dynamic memory allocation, classes and data abstraction, operator overloading, inheritance, and polymorphism. (L,M)

Prerequisite(s): COMSC-9A

COMSC-12 **3 UNITS**

Java Programming

TRANSFERABLE TO CSU AND UC
C-ID: COMP 122
54 LECTURE HOURS

Introduction to Java Programming. Intended for those with prior experience or coursework in at least one formal programming language, preferably C or C++.Topics include: Java and HTML, Applet user interfaces, graphics and multimedia, objects, classes and methods, input and output and IO streaming, networking, threads, packages, the Java AWT and API. (L,M)

COMSC-15 **3 UNITS**

Discrete Structures for Computer Science

TRANSFERABLE TO CSU AND UC
C-ID: COMP 152
36 LECTURE HOURS
54 LAB HOURS

Introduction to the essential discrete structures for computer science with applications. Topics include: proof techniques, counting rules, elementary formal logic and set theory, functions, recursive analysis, digital logic and combinatorial circuits, real number representation, regular expressions, and finite automata. Grades are P/NP Option.

Prerequisite(s): MATH-20; COMSC-9A or COMSC-12

COMSC-20 **3 UNITS**

Beginning Web Publishing With HTML

TRANSFERABLE TO CSU
36 LECTURE HOURS
54 LAB HOURS

Fundamentals of web publishing using HTML, covering design, writing, and maintenance of webpages. Emphasis on real-life informational and interactive presentation to include testing, revising and maintenance of web presentation on the World Wide Web. (C)

Cooperative Work Experience

COURSES

CWEE-44A **V0.5-6 UNITS**

1st Semester General Work Experience

TRANSFERABLE TO CSU
30-450 LAB HOURS

Coordination of introductory on-the-job learning with college experience to develop desirable work habits, attitudes, and career awareness through supervised paid employment or volunteer experience that is not directly related to the student's specific career path and college major. Grades are P/NP Only. Advisory: Students enrolling in this class are not eligible for other Cooperative Work Experience Education (CWEE) or Internship (INTRN) classes during the same semester. Grades are P/NP Only.

Limitations on Enrollment: Students may not exceed sixteen (16) units in the combination of CWEE and INTERN classes.

Advisory: Students enrolling in this class are not eligible for other Cooperative Work Experience Education (CWEE) or Internship (INTRN) classes during the same semester.

Entrance Requirement(s): Must have local paid employment (75 hours per unit) or a volunteer position (60 hours per unit) that is not directly related to the students major or career path.

CWEE-44B **V0.5-6 UNITS**

2nd Semester General Work Experience

TRANSFERABLE TO CSU
30-450 LAB HOURS

Coordination of intermediate on-the-job learning with college experience to develop desirable work habits, attitudes, and career awareness that is progressive from the first semester. This learning experience requires supervised paid employment or volunteer experience that is not directly related to the student's specific career path and college major. Students may enroll in 1-6 units. Students may not exceed sixteen (16) units in the combination of CWEE and INTRN classes. Grades are P/NP Only.

Prerequisite(s): CWEE-44A

Advisory: Students enrolling in this class are not eligible for other Cooperative Work Experience Education (CWEE) or Internship (INTRN) classes during the same semester.

Limitations on Enrollment: Students may not exceed sixteen (16) units in the combination of CWEE and INTRN classes.

Advisory: Students enrolling in this class are not eligible for other Cooperative Work Experience Education (CWEE) or Internship (INTRN) classes during the same semester.

Entrance Requirement(s): Must have local paid employment (75 hours per unit) or a volunteer position (60 hours per unit) that is not directly related to the students major or career path.

CWEE-44C **V0.5-6 UNITS**

3rd Semester General Work Experience

TRANSFERABLE TO CSU
30-450 LAB HOURS

Coordination of intermediate on-the-job learning with college experience to develop desirable work habits, attitudes, and career awareness that is progressive from the first and second semesters. This learning experience requires supervised paid employment or volunteer experience that is not directly related to the student's specific career path and college major. Students may enroll in 1-6 units. Grades are P/NP Only.

Prerequisite(s): CWEE-44B

Advisory: Students enrolling in this class are not eligible for other Cooperative Work Experience Education (CWEE) or Internship (INTRN) classes during the same semester.

Limitations on Enrollment: Students may not exceed sixteen (16) units in the combination of CWEE and INTRN classes.

Entrance Skills: Must have local paid employment (75 hours per unit) or a volunteer position (60 hours per unit) that is not directly related to the students major or career path.

CWEE-44D **V0.5-6 UNITS**

4th Semester General Work Experience

TRANSFERABLE TO CSU
30-340 LAB HOURS

Coordination of advanced on-the-job learning with college experience to develop desirable work habits, attitudes, and career awareness that is progressive beyond the first through third semester. This learning experience requires supervised paid employment or volunteer experience that is not directly related to the student's specific career path and college major. Students may enroll in 1-6 units. Grades are P/NP Only.

Prerequisite(s): CWEE-44C

Advisory: Students enrolling in this class are not eligible for other Cooperative Work Experience Education (CWEE) or Internship (INTRN) classes during the same semester.

Limitations on Enrollment: Students may not exceed sixteen (16) units in the combination of CWEE and INTRN classes.

Entrance Requirement(s): Must have local paid employment (75 hours per unit) or a volunteer position (60 hours per unit) that is not directly related to the students major or career path.

Counseling

COURSES

COUNS-10 **3 UNITS**

College Success

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

Study skills and knowledge necessary for college success including time management, memory techniques, note taking, reading skills, test taking skills, critical thinking, writing, learning, diversity, communication skills, career planning, assessment, use of technology and other resources. (L)

COUNS-22 **1 UNIT**

Peer Advising Seminar

TRANSFERABLE TO CSU
18 LECTURE HOURS (1 UNIT)
36 LECTURE HOURS (2 UNITS)

Designed for Peer Advisors. Methods of working with students from a wide variety of backgrounds, with the emphasis on individualized assistance to help in all areas of counseling; orientation to materials and resources; development of interpersonal skills. Grades are P/NP Only.

COUNS-25 **3 UNITS**

Career Planning and Development

TRANSFERABLE TO CSU
54 LECTURE HOURS

Survey of techniques of career exploration and selection. in the context of a study of the changes that occur during a typical life span, each student will construct a personal profile of current and projected interests, aptitudes, skills, values, personality, and life and personal circumstances. (L)

Limitations on Enrollment: Course not open for credit to students with credit in GNBUS-25.

COUNS-30 **3 UNITS**

Transfer Preparation

TRANSFERABLE TO CSU
54 LECTURE HOURS

Preparation and planning for a successful transfer to a university; the UC and CSU systems, private university systems in California, HBCU, and out-of-state colleges and universities. Students will evaluate universities based on research about degrees offered, transfer guarantee programs, geographic location, transfer requirements and opportunities, including Western University Exchange, the application process, housing, financial aid, scholarship and support services. (L) Grades are P/NP Option.

COUNS-33 **3 UNITS**

Personal and Social Adjustment

TRANSFERABLE TO CSU AND UC
C-ID: PSY 115
54 LECTURE HOURS

This course is designed with an applied focus for students interested in how psychology is used in everyday life and is related to other social sciences. This course surveys different psychological perspectives and theoretical foundations and how these are applied across a person's life taking into account the influence of factors such as culture, gender, ethnicity, historical cohort and socioeconomic status. A broad understanding of how scientists, clinicians and practitioners study and apply psychology is emphasized.

COUNS-35 **1 UNIT**

College Study Skills

TRANSFERABLE TO CSU
18 LECTURE HOURS

Improvement of study skills including proper college mindset, goal setting, learning styles, memory, reading comprehension, note taking, time management, test taking strategies, public speaking, critical thinking, and basic writing skills. (L) Grades are P/NP Only.

COUNS-45 **1 UNIT**

Career College Planning

TRANSFERABLE TO CSU
18 LECTURE HOURS

Designed to assist the student in the decision-making process as it relates to maximizing potential in career, education, and personal development. Contact Counseling Department to schedule an appointment within one week after adding class. (L) Grades are P/NP Only.

COUNS-52 **1 UNIT**

Pre-Employment Skills Training

18 LECTURE HOURS

Exploration of various skills and methods vital to obtaining and retaining employment, including: developing positive attitudes, resumes, job seeking and interviewing techniques. (L) Grades are P/NP Only

Course "97"

Experimental Topics v.5-3 units

Exploration of selected topics in a subject area. Procedures for implementing the course involve cooperative planning by instructor, Dean, and Vice President of Instruction. Course "97" is not intended for transfer but is of the associate degree level. On the transcript, the course will be shown with a regular department prefix, viz Art 97, followed by a title.

Course "98"

Independent Studies, 98 A-B-C-D v1-3 units

These courses are used whenever circumstances warrant offering courses not yet part of an established curriculum. For example, media courses which are offered as Independent Studies requiring prior approval by the Chancellor's Office. Other Independent Studies courses may originate from the needs and curiosities of groups of students and faculty to study areas of mutual interest and concern. Media courses will be developed by the Instructional Services Division/ or the Northern California Telecommunications Consortium. Students and faculty may identify areas of interest not taught in other courses to: (1 unit) Describe problems within identifiable areas of interest; (2 units) use procedures likely to develop further knowledge; (3 units) develop ways of acting on basis of new knowledge; and (4 units) use integrated approach to solution of problems.'

Course "99"

Special Project, 99 — 1 unit

When special circumstances warrant offering a special course to the individual student in a particular area, an instructor, with approval, may register a student in an individual Special Projects course which will be identified by the name of the department, the course number of "99", and the title "Special Projects." Registration in the course involves signing a contract under which the student and instructor agree upon the accomplishment which must be demonstrated by the student in order to receive credit, and which is approved by the cognizant Dean.

Culinary Arts

CULINARY ARTS

ASSOCIATE IN SCIENCE

This associate degree is intended to provide students with the skills and abilities necessary to obtain employment in the growing restaurant and hospitality industry. Students that earn the degree have the ability to secure employment from restaurants, hotels, casinos, bakeries and other food service establishments. The students will learn: food safety and handling, recipe conversions, knife skills, cooking methods and techniques, menu creation and costing, basic baking methods, general restaurant management procedures and the soft skills necessary to be successful in the industry.

Students who complete this program should be able to:

1. Understand and demonstrate the ability to clean, organize and sanitize according to industry standards in food handling, and restaurant service.
2. Understand and utilize the appropriate cooking methods and techniques according to industry standards.
3. Demonstrate professionalism in appearance, teamwork and promptness.
4. Understand and be able to create an employee handbook according to industry standards.
5. Understand and be able to calculate beverage pour cost to industry standards.

REQUIRED COURSES		UNITS
CUL 51A	Basic Food Preparation	3
CUL 51B	Advanced Food Preparation	3
CUL 52A	Professional Baking	3
CUL 52B	Advanced Baking	3
CUL 54	Food Sanitation, Safety, and Storage	.5
CUL 59A	Basic Restaurant Operations	4
CUL 59B	Advanced Restaurant Operations	4
CUL 60	Advanced Foods and Catering	2
CUL 61	Introductory Purchasing for Food Service and Hospitality	1
CUL 64	Beverage Control and Operations	2
CUL 65	Food Service Operation and Management	2
HLTH 10	Principles of Nutrition	3
TOTAL UNITS REQUIRED FOR DEGREE MAJOR		**30.5**

Students earning an AA/AS degree must complete a minimum of 18 units of General Education requirements, the multicultural graduation requirement, and the health requirement, in addition to the program units listed here. Students must complete a total of 60 degree applicable units to earn an AA or AS. Please see your counselor for additional information.

CULINARY ARTS

CERTIFICATE OF ACHIEVEMENT

This certificate is intended to provide students with the skills and abilities necessary to obtain employment in the growing restaurant and hospitality industry. Students that earn the certificate have the ability to secure employment from restaurants, hotels, casinos, bakeries and other food service establishments. The students will learn: food safety and handling, recipe conversions, knife skills, cooking methods and techniques, menu creation and costing, basic baking methods, general restaurant management procedures and the soft skills necessary to be successful in the industry.

Students who complete this program should be able to:

1. Understand and demonstrate the ability to clean, organize and sanitize according to industry standards in food handling, and restaurant service.
2. Understand and utilize the appropriate cooking methods and techniques according to industry standards.
3. Demonstrate professionalism in appearance, teamwork and promptness.

REQUIRED COURSES		UNITS
CUL 51A	Basic Food Preparation	3
CUL 51B	Advanced Food Preparation	3
CUL 52A	Professional Baking	3
CUL 54	Food Sanitation, Safety, and Storage	.5
CUL 59A	Basic Restaurant Operations	4
CUL 59B	Advanced Restaurant Operations	4
CUL 60	Advanced Foods and Catering	2
CUL 65	Food Service Operation and Management	2
TOTAL UNITS REQUIRED FOR CERTIFICATE		**21.5**

COURSES

CUL-51A — **3 UNITS**

Basic Food Preparation

18 LECTURE HOURS
108 LAB HOURS

Basic Food Preparation: Modern cooking techniques (including sauce making, meat cutting, lunch and dinner entrée preparation), knife skills, operation of food service equipment and tools, history of culinary arts development, safety and sanitation, and recipe development.

Other: Course is Open Entry/Open Exit

CUL-51B — **3 UNITS**

Advanced Food Preparation

18 LECTURE HOURS
108 LAB HOURS

Advanced modern restaurant cooking methods, such as Garde Manger, French stock and sauce making, advanced principles of meat cookery, advanced meat and seafood fabrication and identification, mise en place practices, and advanced vegetable and starch identification and cookery. Advanced knife skills developed. Culinary tools such as wok station, induction cooking and steam cooking are also used. (L,M)

Prerequisite(s): CUL-51A

CUL-52A **3 UNITS**

Professional Baking

18 LECTURE HOURS
108 LAB HOURS

Modern baking techniques including, cake baking and decorating, French pastry, bread and dessert development techniques. Preparation takes place in an approved industry standard kitchen.

Other: Course is Open Entry/Open Exit

CUL-52B **3 UNITS**

Advanced Baking

18 LECTURE HOURS
108 LAB HOURS

Modern advanced baking techniques and methods including sugar and chocolate work, advanced decorating, advanced icing, French pastry and dessert making, artisan bread making and savory baked items. Also recipe costing and creating will be a theme throughout the course.

Prerequisite(s): CUL-52A

CUL-54 **0.5 UNITS**

Food Sanitation, Safety, and Storage

9 LECTURE HOURS

Preparation for the ServSafe Certification course and examination. The ServSafe program trains both managers and employees to guard against food borne illnesses. Meets the State of California (Cambell Bill) requirement for Certified Food Handler. (L) Grades are P/NP Option.

Other: Course is Open Entry/Open Exit

CUL-59A **4 UNITS**

Basic Restaurant Operations

18 LECTURE HOURS
162 LAB HOURS

Set-up and operations of the campus restaurant, including planning, preparing, cooking, and serving food in the student-operated restaurant.

CUL-59B **4 UNITS**

Advanced Restaurant Operations

18 LECTURE HOURS
162 LAB HOURS

Set-up and management of the campus restaurant including scheduling, marketing, inventory, menu planning, and costing.

Prerequisite(s): CUL-59A or CUL-60

CUL-60 **2 UNITS**

Advanced Foods and Catering

18 LECTURE HOURS
54 LAB HOURS

Plan, prepare, and serve several large and small catered events during the semester. (M)

Other: Course is Open Entry/Open Exit

CUL-61 **1 UNIT**

Introductory Purchasing for Food Service and Hospitality

18 LECTURE HOURS

Supervisory control procedures, receiving, costing, inventory and storeroom, employee access and maintenance of records for food service and hospitality professionals.

Other: Course is Open Entry/Open Exit

CUL-64 **2 UNITS**

Beverage Control and Operation

36 LECTURE HOURS

Regulations, licensing procedures, purchasing, inventory and cost control for bar and restaurant management. Emphasis on bar setup, service methods, and beverage merchandising. (L,M)

Other: Course is Open Entry/Open Exit

CUL-65 **2 UNITS**

Food Service Operation and Management

36 LECTURE HOURS

Nature and importance of food service management, including general management principles, personnel principles and customer relations. This includes business plan development and presentation.

Drafting

COURSES

DRAFT20 **3 UNITS**

Blueprint and Specifications Reading

TRANSFERABLE TO CSU
54 LECTURE HOURS

This is a beginning blueprint reading class for the student in the metal and mechanics trade. Basic visualization and drawing concepts including orthographic projection, detailing, sketching and communication skills that are needed for employment are developed in the class. Introduction to CAD Modeling.

DRAFT30 **3 UNITS**

Technical Drawing With CAD

TRANSFERABLE TO CSU
36 LECTURE HOURS
54 LAB HOURS

Fundamental technical drafting practices and documentation for part fabrication drawing. Drafting conventions and standards applied to orthographic, section, auxiliary views, isometric and oblique projection will be covered in addition to basic CAD object creation and editing and freehand sketching. ASME Y14.xM standards are emphasized. CAD software will be used to complete the applied laboratory exercises. (C)

Early Childhood Education

EARLY CHILDHOOD EDUCATION

ASSOCIATE IN SCIENCE FOR TRANSFER

The Associate in Science in Early Childhood Education for Transfer degree provides the opportunity for students to complete their freshman/sophomore level classes needed for a Bachelor's degree in ECE with the California State University System.

To earn this AS-T degree, students must meet the following Associate Degree for Transfer requirements (pursuant to SB1440 law):

- Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University.
- The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education Breadth Requirements.
- A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
- Obtainment of a minimum grade point average of 2.0.
- Earn a grade of "C" or better in all courses required for the major or area of emphasis. Note that all courses required for the major are CSU transferable and can count towards the 60 units and the GE-Breadth or IGETC requirements.

Students who complete this program should be able to:

1. Graduate from ECE with a clear understanding of developmentally and culturally appropriate practices and what it means to successfully work with children, families, and the community in an early care and education setting. Students seeking a baccalaureate in a similar discipline in Early Childhood Education or Child Development will successfully complete the transfer process to a four year institution.
2. Proficiently design developmentally appropriate curriculum, and demonstrate effective implementation using intentional teaching methods that scaffold children's co-construction of knowledge through exploration, risk-taking, reflection, and the respectful inclusion and support of individual life experiences.
3. Build partnerships with local, national and international resource organizations in order to advocate effectively for the needs of children and families and to grow in professional skills.
4. Promote higher levels of child learning through the use of intentional teaching methods that support the unique development of every child.

REQUIRED COURSES		UNITS
ECE 1A	Principles and Practices of Teaching Young Children	3
ECE 1B	Introduction to Curriculum	3
ECE 3	Child Growth and Development	3
ECE 10	Health, Safety and Nutrition	3
ECE 11	Observation and Assessment	3
ECE 27	Teaching in a Diverse Society	3
ECE 31	Child, Family, Community	3
ECE 46	Practicum-Field Experience-Preschool	3
TOTAL UNITS REQUIRED FOR DEGREE MAJOR		**24**

Students earning an AA-T/AS-T degree must complete 60 semester units of coursework eligible for transfer to the CSU including the CSU GE-B or IGETC (CSU version), all courses in the major with "C" or better or "P" (pass) grades, and achieve a minimum transferable cumulative GPA of 2.0.

ELEMENTARY TEACHER EDUCATION

ASSOCIATE IN SCIENCE FOR TRANSFER

The Associate in Arts in Elementary Teacher Education for Transfer degree provides the opportunity for students to complete their freshman/sophomore level classes needed for a Bachelor's degree in Elementary Teacher Education with the California State University System.

To earn the AA-T degree students must meet the following Associate Degree for Transfer requirements (pursuant to SB 1440 law):

- Completion of 60 semester or 90 quarter units that are eligible for transfer to the California State University.
- The Intersegmental General Education Transfer Curriculum (IGETC-CSU version) or the California State University General Education-Breadth Requirements.
- A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
- Obtainment of a minimum transferable grade point average of 2.0.
- Earn a grade of "C" or better, or "P" (pass) in all courses required for the major or area of emphasis.

Students who complete this program should be able to:

1. Evaluate arguments for validity and soundness.
2. Demonstrate integrated knowledge of development and major theoretical frameworks.
3. Analyze major historical issues and judge their significance to the development of American History up through Reconstruction.

REQUIRED COURSES		UNITS
BIOL 10L	General Biology	4
ECE 3	Child Growth and Development	3
EDUC 1	Introduction to Teaching With Field Experience	3
GEOG 5	World Regional Geography	3
ENGL 1A	College Composition and Reading ***OR***	4
ENGL 1E	College Composition and Reading Extended	5
ENGL 1B	Critical Thinking and Writing About Literature	4
ENGL 1C	Critical Thinking/Advanced Composition	3
GEOL 8	Earth Science	3
GEOL 8L	Earth Science Lab	1
HIST 5A	World Civilizations	3
HIST 17A	United States History	3
MATH 15	Concepts and Structures of Mathematics	3
PHYSC 10B	Physical Science - Physics & Chemistry	3
PHYSC 10C	Physical Science - Physics and Chemistry Lab	1
SPECH 1	Public Speaking	3
Select one course from:		
ART 5	Art Appreciation	3
MUSIC 3	Music Appreciation	3
THART 10	Introduction to Theatre	3
TOTAL UNITS REQUIRED FOR DEGREE MAJOR		**50-51**

Students earning an AA-T/AS-T degree must complete 60 semester units of coursework eligible for transfer to the CSU including the CSU GE-B or IGETC (CSU version), all courses in the major with "C" or better or "P" (pass) grades, and achieve a minimum transferable cumulative GPA of 2.0.

EARLY CHILDHOOD EDUCATION

ASSOCIATE IN SCIENCE

The Associate in Science in Early Childhood Education (ECE) is designed for students desiring an occupational or transfer course of study, providing more depth than the ECE transfer degree (ADT). This occupational course of study prepares students to work with children from birth through age eight in a variety of settings.

Students who complete this program should be able to:

1. Graduate from ECE with a clear understanding of developmentally and culturally appropriate practices and what it means to successfully work with children, families, and the community in an early care and education setting. Students seeking a baccalaureate in a similar discipline in Early Childhood Education or Child Development will successfully complete the transfer process to a four year institution.
2. Proficiently design developmentally appropriate curriculum, and demonstrate effective implementation using intentional teaching methods that scaffold children's co-construction of knowledge through exploration, risk-taking, reflection, and the respectful inclusion and support of individual life experiences.
3. Build partnerships with local, national and international resource organizations in order to advocate effectively for the needs of children and families and to grow in professional skills.
4. Promote higher levels of child learning through the use of intentional teaching methods that support the unique development of every child.

REQUIRED COURSES		UNITS
ECE 1A	Principles and Practices of Teaching Young Children	3
ECE 1B	Introduction to Curriculum	3
ECE 3	Child Growth and Development	3
ECE 10	Health, Safety and Nutrition	3
ECE 11	Observation and Assessment	3
ECE 27	Teaching in a Diverse Society	3
ECE 31	Child, Family, Community	3
ECE 1C	Positive Social Development in Young Child	3
ECE 17	The Exceptional Child	3
ECE 46	Practicum-Field Experience-Preschool ***OR***	3
ECE 46A	Practicum-Field Exp-Infant/Toddler ***OR***	3
ECE 46B	Practicum-Field Exp-School Age Children ***OR***	3
ECE 46C	Practicum-Field Exp-Children With Special Needs	3
TOTAL UNITS REQUIRED FOR DEGREE MAJOR		**30**

Students earning an AA/AS degree must complete a minimum of 18 units of General Education requirements, the multicultural graduation requirement, and the health requirement, in addition to the program units listed here. Students must complete a total of 60 degree applicable units to earn an AA or AS. Please see your counselor for additional information.

Director of Private Day Care Center/ Preschool Options

For more information on being a Director of a private day care or preschool, contact the ECE Department.

CHILD DEVELOPMENT TEACHER

CERTIFICATE OF ACHIEVEMENT

This certificate will prepare students to work in the early education and child care field, focusing on preschool age children, including California State funded and Head Start programs. After completion of this certificate (along with additional requirements listed in the note below), students may apply for the Child Development Teacher Permit issued by the Commission on Teaching Credentialing.

Note: In addition, requirements for the Child Development Teacher Permit include 16 diversified units with at least one course in each of the following General Education (graduation requirements) areas: Humanities, Social Science, Mathematics or Natural Science, and English 1A. In addition, 175 days (3 or more hours per day) of experience working with children in a child care or preschool setting, is required. Renewals are issued for five-years with verification of 105 hours of professional development.

These programs are required to possess the California Child Development (Teacher) Permit issued by Commission on Teacher Credentialing. After completing required course work of 40 total units and 175 days of experience, apply for the permit at local county schools office.

Students who complete this program should be able to:

1. Demonstrate the skills needed in order to enter the ECE workforce as a Preschool Teacher in a Title 5 Program.
2. Demonstrate their ability to identify the theories and practices of the social, emotional, creative, cognitive and physical development of young children.
3. Compare and contrast the skills necessary in working with and supporting families, diversity and program practices.
4. Demonstrate an awareness of and evaluate important factors in planning in childcare facilities and the ethical issues involved in working with young children.

REQUIRED COURSES		UNITS
ECE 1A	Principles and Practices of Teaching Young Children	3
ECE 1B	Introduction to Curriculum	3
ECE 3	Child Growth and Development	3
ECE 7A	Creative Materials	3
ECE 10	Health, Safety, and Nutrition	3
ECE 11	Observation and Assessment	3
ECE 16	Preschool Music Activities	3
ECE 27	Teaching in a Diverse Society	3
ECE 31	Child, Family, Community	3
ECE 46	Practicum-Field Exp-Preschool	3
TOTAL UNITS REQUIRED FOR CERTIFICATE		**30**

Note on Permit through Credentialing: After completing required course work of 40 total units (24 ECE and 16 GE) and 175 days of 3 or more hours per day of experience, you may apply for the California Child Development (Teacher) Permit issued by Commission on Teacher Credentialing through your local County Office of Education. Please see the Child Development Permit Matrix for required course work.

ECE Specialization Certificates of Achievement for Master Teacher Permit:

The following Certificates of Achievement can be used as ECE Specializations when combined with the Child Development Teacher Certificate of Achievement, ECE 37 (Adult Supervision), 16 units of general education with at least one course in each of the following GE areas: humanities, social sciences, math and/or science, and English, and 350 days of experience in an instructional capacity of 3 or more hours per day in the past four years when applying for the Child Development Master Teacher Permit issued by Commission on

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Teacher Credentialing. Apply for the permit at the local County Office of Education.

ECE Specializations include: Arts Specialization, Children with Special Needs Specialization, Diversity in ECE, Infant and Toddler, and Language and Literacy.

ARTS SPECIALIZATION

CERTIFICATE OF ACHIEVEMENT

This certificate will prepare students to work in the child care field, focusing on an Arts Specialization for California State funded and Head Start programs. This Certificate of Achievement can be used as an ECE Specialization when combined with the Child Development Certificate of Achievement and ECE 37 (Adult Supervision). Students can then apply for the Child Development Master Teacher Permit issued by the Commission on Teaching Credentialing. For the Master Teacher Permit, 350 days of 3 or more hours per day of experience is required.

Students who complete this program should be able to:

1. Design, implement, and evaluate effective program practices to successfully implement a culturally appropriate arts curriculum an early childhood classroom.

REQUIRED COURSES		UNITS
ECE 1A	Principles and Practices of Teaching Young Children	3
ECE 1B	Introduction to Curriculum	3
ECE 3	Child Growth and Development	3
ECE 7A	Creative Materials	3
ECE 10	Health, Safety, and Nutrition	3
ECE 11	Observation and Assessment	3
ECE 16	Preschool Music Activities	3
ECE 27	Teaching in a Diverse Society	3
ECE 31	Child, Family, Community	3
ECE 46	Practicum-Field Experience-Preschool ***OR***	3
ECE 46A	Practicum-Field Exp-Infant/Toddler ***OR***	3
ECE 46B	Practicum-Field Exp-School Age Children ***OR***	3
ECE 46C	Practicum-Field Exp-Children With Special Needs	3
TOTAL UNITS REQUIRED FOR CERTIFICATE		**30**

CHILDREN WITH SPECIAL NEEDS SPECIALIZATION

CERTIFICATE OF ACHIEVEMENT

This certificate will prepare students to work in the child care field, focusing on children with special needs, including California State funded and Head Start programs. This Certificate of Achievement can be used as an ECE Specialization when combined with the Child Development Certificate of Achievement and ECE 37 (Adult Supervision). Students can then apply for the Child Development Master Teacher Permit issued by the Commission on Teaching Credentialing. For the Master Teacher Permit, 350 days of 3 or more hours per day of experience is required.

Students who complete this program should be able to:

1. Recognize the importance of early childhood as a unique time in children's development that requires specialized developmentally appropriate activities, routines, interactions, and guidance
2. Plan and implement a curriculum for children with special needs based on a blend of routine caregiving and play/exploration activities
3. Learn and practice professional ethics, personal and social responsibility, and effective team membership in their work as child care professionals.

REQUIRED COURSES		UNITS
ECE 1A	Principles and Practices of Teaching Young Children	3
ECE 1B	Introduction to Curriculum	3
ECE 3	Child Growth and Development	3
ECE 10	Health, Safety, and Nutrition	3
ECE 11	Observation and Assessment	3
ECE 17	The Exceptional Child	3
ECE 18	Curriculum and Strategies for Children with Special Needs	3
ECE 27	Teaching in a Diverse Society	3
ECE 31	Child, Family, Community	3
ECE 46C	Practicum-Field Exp-Children With Special Needs	3
TOTAL UNITS REQUIRED FOR CERTIFICATE		**30**

DIVERSITY IN ECE

CERTIFICATE OF ACHIEVEMENT

This certificate will prepare students to work in the child care field, focusing on working with children and families from diverse backgrounds, including California State funded and Head Start programs. This Certificate of Achievement can be used as an ECE Specialization when combined with the Child Development Certificate of Achievement and ECE 37 (Adult Supervision). Students can then apply for the Child Development Master Teacher Permit issued by the Commission on Teaching Credentialing. For the Master Teacher Permit, 350 days of 3 or more hours per day of experience is required.

Students who complete this program should be able to:

1. Design, implement, and evaluate effective program practices to successfully implement culturally appropriate practices and curriculum in an early childhood classroom
2. Discuss the diverse needs, characteristics and multiple influences on the development of children, birth through age eight, as related to high quality care and education.
3. Demonstrate an understanding of family function and structure, along with familial need for information and support that respects and values diverse cultures, values, beliefs and behaviors

REQUIRED COURSES		UNITS
ECE 1A	Principles and Practices of Young Children	3
ECE 1B	Introduction to Curriculum	3
ECE 3	Child Growth and Development	3
ECE 6	Early Childhood Language Development	3
ECE 7A	Creative Materials	3
ECE 10	Health, Safety, and Nutrition	3
ECE 11	Observation and Assessment	3
ECE 16	Preschool Music Activities	3
ECE 27	Teaching in A Diverse Society	3
ECE 31	Child, Family, Community	3
ECE 46	Practicum-Field Experience-Preschool	3
TOTAL UNITS REQUIRED FOR CERTIFICATE		**33**

INFANT AND TODDLER

CERTIFICATE OF ACHIEVEMENT

This certificate will prepare students to work in the childcare field, focusing on infants and toddlers, including California State funded and Head Start programs. Other Infant Toddler career positions can be found in private homes, child development centers, and human service agencies. This Certificate of Achievement can be used as an ECE Specialization when combined with the Child Development Certificate of Achievement and ECE 37 (Adult Supervision). Students can then apply for the Child Development Master Teacher Permit issued by the Commission on Teaching Credentialing. For the Master Teacher Permit, 350 days of 3 or more hours per day of experience is required.

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Students who complete this program should be able to:

1. Evaluate and analyze the use of different developmental theories and instructional strategies that encourage development of critical thinking, problem solving, and performance skills when working with infants and toddlers and their families.
2. Recognize the importance of early childhood (emphasis on infancy) as a unique time in children's development that requires specialized developmentally appropriate activities, routines, interactions, and guidance
3. Plan and implement a curriculum based on a blend of routine caregiving and play/exploration activities.
4. Learn and practice professional ethics, personal and social responsibility, and effective team membership in their work as child care professionals.

REQUIRED COURSES		UNITS
ECE 1A	Principles and Practices of Teaching Young Children	3
ECE 1B	Introduction to Curriculum	3
ECE 3	Child Growth and Development	3
ECE 10	Health, Safety, and Nutrition	3
ECE 11	Observation and Assessment	3
ECE 27	Teaching in a Diverse Society	3
ECE 31	Child, Family, Community	3
ECE 43	Care and Education for Infants and Toddlers	3
ECE 33	Infants and Toddlers ***OR***	3
ECE 42	Infant/Toddler Development	3
ECE 46A	Practicum-Field Exp-Infant/Toddler	3
TOTAL UNITS REQUIRED FOR CERTIFICATE		**30**

LANGUAGE AND LITERACY SPECIALIZATION

CERTIFICATE OF ACHIEVEMENT

This certificate will prepare students to work in the child care field, focusing on working with children and families, including California state-funded and Head Start programs. This certificate will prepare the students to specialize in identifying and creating developmental appropriate language and literacy curriculum in an early childhood setting. This Certificate of Achievement can be used as an ECE Specialization when combined with the Child Development Certificate of Achievement. Students can then apply for the Child Development Master Teacher Permit issued by the Commission on Teaching Credentialing. For the Master Teacher Permit, 350 days of 3 or more hours per day of experience is also required.

Students who complete this program should be able to:

1. Demonstrate effective program practices to successfully design, implement, and evaluate effective literacy practices in an early childhood classroom.
2. Demonstrate understanding of how to select and use developmentally appropriate and culturally appropriate literature for children 0-8 years.
3. Utilize knowledge of appropriate language and literacy practices for young children in order to set up an effective language and literacy early childhood classroom environment.

REQUIRED COURSES		UNITS
ECE 1A	Principles and Practices of Teaching Young Children	3
ECE 1B	Introduction to Curriculum	3
ECE 3	Child Growth and Development	3
ECE 6	Early Childhood Language Development	3
ECE 10	Health, Safety, and Nutrition	3
ECE 11	Observation and Assessment	3
ECE 27	Teaching in a Diverse Society	3
ECE 31	Child, Family, Community	3
ECE 37	Adult Supervision	2
ECE 39	Children's Literature	3
ECE 46	Practicum-Field Experience-Preschool ***OR***	3
ECE46A	Practicum-Field Exp-Infant/Toddler ***OR***	3
ECE 46B	Practicum-Field Exp-School Age Children ***OR***	3
ECE 46C	Practicum-Field Exp-Children With Special	3
TOTAL UNITS REQUIRED FOR CERTIFICATE		**32**

SCHOOL AGE CHILDREN

CERTIFICATE OF ACHIEVEMENT

The coursework within this Certificate of Achievement is required to apply and possess the California Child and School Age Emphasis Teacher Permit issued by the Commission on Teacher Credentialing. After completing required course work of 40 total units and 175 days of experience, students will be eligible to apply for the Permit at the local County Office of Education.

Students who complete this program should be able to:

1. Design, implement, and evaluate effective school age program practices to successfully implement a developmentally appropriate school age curriculum in an after school or latchkey classroom serving families and children 5-12 years of age.
2. Recognize the importance of early childhood (emphasis on school-age years) as a unique time in children's development that requires specialized developmentally appropriate activities, routines, interactions, and guidance
3. Plan and implement a curriculum based on a blend the theory of industry versus inferiority as a guide to routines and activities

REQUIRED COURSES		UNITS
ECE 1A	Principles and Practices of Teaching Young Children	3
ECE 1B	Introduction to Curriculum	3
ECE 3	Child Growth and Development	3
ECE 7A	Creative Materials	3
ECE 10	Health, Safety, and Nutrition	3
ECE 11	Observation and Assessment	3
ECE 14	The School Age Child	3
ECE 27	Teaching in a Diverse Society	3
ECE 31	Child, Family, Community	3
ECE 46B	Practicum-Field Exp-School-Age Children	3
TOTAL UNITS REQUIRED FOR CERTIFICATE		**30**

SITE SUPERVISOR

CERTIFICATE OF ACHIEVEMENT

This Certificate of Achievement is required to possess the California Child Development (Site Supervisor) Permit issued by the Commission on Teacher Credentialing. After completing required course work of 60 total units (including 24 ECE and 16 GE) and 350 days of 3 or more hours per day of experience within 4 years, including at least 100 days of supervising adults, you may apply for the California Child Development (Site Supervisor) Permit issued by Commission on Teacher Credentialing through your local County Office of Education. Please see the Child Development Permit Matrix for required course work.

1. Students who complete this program should be able to:
2. Proficiently design developmentally appropriate curriculum, and demonstrate effective implementation using intentional teaching methods that scaffold children's co-construction of knowledge through exploration, risk-taking, reflection, and the respectful inclusion and support of individual life experiences.

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3. Build partnerships with local, national and international resource organizations in order to advocate effectively for the needs of children and families and to grow in professional skills.
4. Promote higher levels of child learning through the use of intentional teaching methods that support the unique development of every child.

REQUIRED COURSES		UNITS
ECE 1A	Principles and Practices of Teaching Young Children	3
ECE 1B	Introduction to Curriculum	3
ECE 2A	Administration I: Programs in Early Childhood Education	3
ECE2B	Administration of Children's Centers	3
ECE 3	Child Growth and Development	3
ECE 10	Health, Safety, and Nutrition	3
ECE 11	Observation and Assessment	3
ECE 27	Teaching in a Diverse Society	3
ECE 31	Child, Family, Community	3
ECE 37	Adult Supervision	2
ECE 46	Practicum-Field Experience-Preschool ***OR***	3
ECE 46A	Practicum-Field Exp-Infant/Toddler ***OR***	3
ECE 46B	Practicum-Field Exp-School Age Children ***OR***	3
ECE 46C	Practicum-Field Exp-Children With Special Needs	3
TOTAL UNITS REQUIRED FOR CERTIFICATE		**32**

TEACHER/FAMILY RELATIONSHIPS SPECIALIZATION

CERTIFICATE OF ACHIEVEMENT

This certificate will prepare students to work in the child care field, focusing on working with children and families, including California State funded and Head Start programs. This certificate will prepare the students to specialize in work with the families of young children, including work as a home visitor, family advocate and family service plan coordinator. This Certificate of Achievement can be used as an ECE Specialization when combined with the Child Development Certificate of Achievement. Students can then apply for the Child Development Master Teacher Permit issued by the Commission on Teaching Credentialing. For the Master Teacher Permit, 350 days of 3 or more hours per day of experience is also required.

Students who complete this program should be able to:

1. Demonstrate effective program practices to successfully implement culturally appropriate practices in working with families in an early childhood classroom.
2. Demonstrate communication strategies in order to develop effective Teacher/Family partnerships with families that benefit the child enrolled in an early childhood program.
3. Demonstrate knowledge and understanding of the challenges facing the diverse families of the children in their community.

REQUIRED COURSES		UNITS
ECE 1A	Principles and Practices of Teaching Young Children	3
ECE 1B	Introduction to Curriculum	3
ECE 3	Child Growth and Development	3
ECE 10	Health, Safety, and Nutrition	3
ECE 11	Observation and Assessment	3
ECE 27	Teaching in a Diverse Society	3
ECE 31	Child, Family, Community	3
ECE 32	Parenting	3
ECE 35	Parents as Partners in ECE	3
ECE 37	Adult Supervision	2
ECE 46	Practicum-Field Experience-Preschool ***OR***	3
ECE 46A	Practicum-Field Exp-Infant/Toddler ***OR***	3
ECE 46B	Practicum-Field Exp-School Age Children ***OR***	3
ECE 46C	Practicum-Field Exp-Children With Special	3
TOTAL UNITS REQUIRED FOR CERTIFICATE		**32**

TRANSITIONAL KINDERGARTEN AND EARLY EDUCATION

CERTIFICATE OF ACHIEVEMENT

The Transitional Kindergarten (TK) and Early Education Certificate of Achievement will fulfill the Early Childhood Education/Child Development units required for the newly passed law based on Transitional Kindergarten Senate Bill 837. The law states that a credential (or preliminary credentialed) teacher must have 24 units of early childhood education/child development to teach transitional kindergarten in a California school district. This certificate will provide preliminary and credentialed K-8 teachers the units that cover the knowledge, skills, and strategies to teach effectively in a transitional kindergarten classroom. This certificate will also provide the coursework recommended for those planning to work with children in transitional kindergarten through 3rd grade classroom settings.

Students who complete this program should be able to:

1. Recognize the importance of early childhood as a unique time in children's development that requires specialized developmentally appropriate activities, routines, interactions, and guidance
2. Plan and implement a curriculum based on a blend of routine caregiving and play/exploration activities
3. Learn and practice professional ethics, personal and social responsibility, and effective team membership in their work as child care professionals.

REQUIRED COURSES		UNITS
ECE 1A	Principles and Practices of Teaching Young Children	3
ECE 1B	Introduction to Curriculum	3
ECE 1C	Positive Social Development in Young Child	3
ECE 3	Child Growth and Development	3
ECE 11	Observation and Assessment	3
ECE 17	The Exceptional Child	3
ECE 27	Teaching in a Diverse Society	3
ECE 31	Child, Family, Community	3
TOTAL UNITS REQUIRED FOR CERTIFICATE		**24**

CHILD DEVELOPMENT ASSOCIATE TEACHER

CERTIFICATE OF TRAINING

The Early Childhood Education Certificate of Training prepares those entering the field of Early Childhood Education, entry level skills in a private preschool or daycare program. This certificate meets the academic requirements for the Associate Teacher level on the California Department of Education Child Development Permit Matrix. In order to obtain this Permit, you must also complete 50 days of experience at 3+ hours a day within 2 years and apply through the County Office of Education.

Students who complete this program should be able to:

1. Exhibit cultural competence through the development of intentional practices with respect to diversity and the inclusion of all children, families, staff, and communities
2. Proficiently design developmentally appropriate curriculum, and demonstrate effective implementation using international teaching methods that scaffolds childrens co-construction of knowledge through exploration, risk-taking, reflection, and the respectful inclusion and support of individual life experience.
3. Promote higher levels of child learning through the use of international teaching methods that support the unique development of every child.

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4. Use understanding of cognitive development and apply it to their roles as curious, confident, life-long constructors of knowledge.

REQUIRED COURSES		UNITS
ECE 1A	Principles and Practices of Teaching Young Children	3
ECE 1B	Introduction to Curriculum	3
ECE 3	Child Growth and Development	3
ECE 31	Child, Family, Community	3
TOTAL UNITS REQUIRED FOR CERTIFICATE		**12**

COURSES

ECE-1A **3 UNITS**

Principles and Practices of Teaching Young Children

TRANSFERABLE TO CSU
C-ID: ECE 120
54 LECTURE HOURS

An examination of the underlying historical contexts and theoretical perspectives of developmentally appropriate practices in early care and education for children birth through age eight. Explores the typical roles and expectations of early childhood educators. Identifies professional ethics, career pathways, and professional standards. Introduces best practices for developmentally appropriate learning environments, curriculum, and effective pedagogy for young children including how play contributes to children's learning growth, and development. (L)

ECE-1B **3 UNITS**

Introduction to Curriculum

TRANSFERABLE TO CSU
C-ID: ECE 130
54 LECTURE HOURS

This course presents an overview of knowledge and skills related to providing appropriate curriculum and environments for young children from birth to age six. Students will examine teacher's role in supporting development and fostering the joy of learning for all young children using observation and assessment strategies emphasizing the essential role of play. An overview of content areas will include but not be limited to: Language and literacy, social and emotional learning, sensory learning, art and creativity, math and science. (L)

Prerequisite(s): ECE-1A; ECE-3

ECE-1C **3 UNITS**

Positive Social Development Young Child

TRANSFERABLE TO CSU
54 LECTURE HOURS

Designed to help teachers and caregivers of young children to establish relationships with children and apply principles of behavior management. Basic principles include helping young children develop positive self-esteem, enter into group play, form friendships and learn prosocial behavior. (L)

ECE-2A **3 UNITS**

Administration I: Programs in Early Childhood Education

TRANSFERABLE TO CSU
54 LECTURE HOURS

Introduction to the administration of early childhood programs. Covers program types, budget, management, regulations, laws, development and implementation of policies and procedures. Examines administrative tools, philosophies, and techniques needed to organize, open, and operate an early care and education program.

ECE-2B **3 UNITS**

Administration of Children's Centers

TRANSFERABLE TO CSU
54 LECTURE HOURS

This course examines administrative skills, knowledge and techniques needed for effective supervision to organize, manage and operate a child development center. This includes staff development and staff relations. There will be an emphasis on the role of program director, site supervisor or owner while studying management theory, budget, personnel policies, procedures, regulatory laws, working with families and professional ethics and growth.

ECE-3 **3 UNITS**

Child Growth and Development

TRANSFERABLE TO CSU AND UC
C-ID: CDEV 100
54 LECTURE HOURS

This course examines the major physical, psychosocial, and cognitive/language developmental milestones for children, both typical and atypical, from conception through adolescence. There will be an emphasis on interactions between maturational processes and environmental factors. While studying developmental theory and investigative research methodologies, students will observe children, evaluate individual differences and analyze characteristics of development at various stages. Designed as a foundation course for careers in ECE, Education, Human Services, Health and related fields. (L)

ECE-6 **3 UNITS**

Early Childhood Language Development

TRANSFERABLE TO CSU
54 LECTURE HOURS

Language development and influences in early childhood including theories of language acquisition, interrelatedness of growth, stages of development, and appropriate curriculum for enhancing speaking, listening, pre-reading, and pre-writing skills.

ECE-7A **3 UNITS**

Creative Materials

TRANSFERABLE TO CSU
54 LECTURE HOURS

Creative activities for young children (2-8 years old) including the planning and implementation of painting, drawing, printmaking, weaving, stitchery, collage, sculpture, puppet-making, and modeling materials. Students will learn to develop a relationship with creative media. (L)

Limitations on Enrollment: Course not open for credit for students with credit in ART-7A.

ECE-10 **3 UNITS**

Health, Safety, and Nutrition

TRANSFERABLE TO CSU
C-ID: ECE 220
54 LECTURE HOURS

Laws, regulations, standards, policies, procedures and best practices related to health, safety, and nutrition in care and education settings for children birth through middle childhood. Includes the teacher's role in prevention strategies, nutrition and meal planning, integrating health safety and nutrition experiences into daily routines and overall risk management. (L)

ECE-11 **3 UNITS**

Observation and Assessment

TRANSFERABLE TO CSU
C-ID: ECE 200
54 LECTURE HOURS

This course will Introduce the appropriate use of assessment and observation tools and strategies to document young children's development and learning. The use of findings to inform and plan learning environments and experiences will be emphasized. Recording strategies, rating systems, portfolios, and multiple assessment tools will be discussed, along with strategies for collaboration with families and professionals. (L)

ECE-12 **1 UNIT**

Science for Young Children

TRANSFERABLE TO CSU
18 LECTURE HOURS

Designed to provide teachers and caregivers of young children with principles of appropriate science curriculum. Emphasis on informal science experiences and the cognitive connections made by young children as they observe, manipulate, process and communicate. Classroom organization and management, readily found materials and connections with other curriculum areas are also included.

ECE-13 **1 UNIT**

Piaget's Learning Theory Applications

TRANSFERABLE TO CSU
18 LECTURE HOURS

Overview of Piaget's theory of cognitive development and practice in relating theory to the development of games and activities for the preschool and primary classroom.

ECE-14 **3 UNITS**

The School Age Child

TRANSFERABLE TO CSU
54 LECTURE HOURS

Students will be introduced to the fundamentals of planning, implementing, and evaluating programs for the school-age child (TK-8). Emphasis will be placed on day-to-day program operation, teaching strategies, developmental levels of the school-age child and age appropriate activities. A field trip may be utilized to enhance classroom instruction.

ECE-16 **3 UNITS**

Preschool Music Activities

TRANSFERABLE TO CSU
54 LECTURE HOURS

Provides a foundation for musical experiences to involve young children in music by developing listening skills, movement, singing, playing an instrument, and incorporating the three basic elements of rhythm, melody, and harmony. Students build a resource file and create developmentally appropriate lesson plans that include music activities for transitions and cultural diversity. Introduces a variety of instruments appropriate for young children. (L)

ECE-17 **3 UNITS**

Introduction to Young Children with Special Needs

TRANSFERABLE TO CSU
54 LECTURE HOURS

Introduces the variations in development of children with special needs ages birth through eight and the resulting impact on families. Includes an overview of historical and societal Influences, laws relating to children with special needs, and the Identification and referral process. (L)

ECE-18 **3 UNITS**

Curriculum and Strategies for Children with Special Needs

TRANSFERABLE TO CSU
54 LECTURE HOURS

Covers curriculum and intervention strategies for working with children with special needs in partnership with their families. Focuses on the use of observation and assessment in meeting the individualized needs of children in inclusive and natural environments. Includes the role of the teacher as a professional working with families, collaboration with interdisciplinary teams, and cultural competence. (L)

ECE-25 **3 UNITS**

Group Experiences in Outdoor Environment

TRANSFERABLE TO CSU
54 LECTURE HOURS

Developing creative outdoor learning environments including playgrounds, activities and cooperative games. Circle time or daily planned group experiences will also be explored and developed through integrated, thematic instruction. (L)

ECE-27 **3 UNITS**

Teaching in a Diverse Society

TRANSFERABLE TO CSU
C-ID: ECE 230
54 LECTURE HOURS

Examination of the development of social identities in diverse societies including theoretical and practical implications of oppression and privilege as they apply to young children, families, programs, classrooms and teaching. Various classroom strategies will be explored emphasizing culturally and linguistically appropriate anti-bias approaches supporting all children in becoming competent members of a diverse society. Course includes self-examination and reflection on issues related to social identity, stereotypes and bias, social and educational access, media and schooling. (L)

ECE-31 **3 UNITS**

Child, Family, Community

TRANSFERABLE TO CSU AND UC
C-ID: CDEV 110
54 LECTURE HOURS

An examination of the developing child in a societal context focusing on the interrelationship of family, school and community and emphasizes historical and socio-cultural factors. The processes of socialization and identity development will be highlighted, showing the importance of respectful, reciprocal relationships that support and empower families. (L)

ECE-32 **3 UNITS**

Parenting

TRANSFERABLE TO CSU
54 LECTURE HOURS

Social competence techniques, advice, and demonstration of responsibility, which encourage positive parenting styles and effective child-rearing and guidance procedures. Focus will be creating and building positive interaction patterns and increasing levels of communication between family members, care givers, and the community.

ECE-35 **3 UNITS**

Parents as Partners in ECE

TRANSFERABLE TO CSU
54 LECTURE HOURS

An in-depth study of the relationship between parents, teachers and children in the education process. Topics include communication skills necessary for parent-teacher conferences, increasing parent volunteer involvement, family lifestyles, families with special needs, leadership and advocacy. Intended for experienced teachers. (L)

ECE-37 **2 UNITS**

Adult Supervision

TRANSFERABLE TO CSU
36 LECTURE HOURS

Methods and principles of supervising student teachers in the ECE classrooms. Emphasis is on the role of experienced classroom teachers who function as mentors to new teachers while simultaneously addressing the needs of children, parents, and other staff. Satisfies adult supervision requirements for the State Department of Social Services. (L)

ECE-39 **3 UNITS**

Children's Literature

TRANSFERABLE TO CSU
54 LECTURE HOURS

An introduction to children's literature: history, elements, and types of books of interest to children from birth through twelve years old. Students will read, share, and evaluate classical, cultural, and award-winning books. Methods of selecting and evaluating books will be applied. (L)

ECE-42 **3 UNITS**

Infant/Toddler Development

TRANSFERABLE TO CSU
54 LECTURE HOURS

A study of infants and toddlers from pre-conception to age three including physical, cognitive, language, social, and emotional growth and development. Applies theoretical frameworks to interpret behavior and interactions between heredity and environment. Emphasizes the role of family and relationships in development. (L)

ECE-43 **3 UNITS**

Care and Education for Infants and Toddlers

TRANSFERABLE TO CSU
54 LECTURE HOURS

Study of current theory and research to the care and education of infants and toddlers in group settings. Emphasis will be placed on the essential policies, principles and practices that lead to quality care and developmentally appropriate curriculum for children birth to 36 months. (L)

ECE-46 **3 UNITS**

Practicum-Field Experience-Preschool

TRANSFERABLE TO CSU
C-ID: ECE 210
18 LECTURE HOURS
108 LAB HOURS

A demonstration of developmentally appropriate early childhood teaching competencies under guided supervision. Students will utilize practical classroom experiences to make connections between theory and practice, develop professional behaviors, and build a comprehensive understanding of children and families. Child centered, play-oriented approaches to teaching, learning, and assessment; and knowledge of curriculum content areas will be emphasized as student teachers design, implement and evaluate experiences that promote positive development and learning for all young children. (L)

Prerequisite(s): ECE-1A; ECE-1B; ECE-3; ECE-31

ECE-46A **3 UNITS**

Practicum - Field Experience Infant/Toddler

TRANSFERABLE TO CSU
C-ID: ECE 210
18 LECTURE HOURS
108 LAB HOURS

A demonstration of developmentally appropriate early childhood teaching competencies under guided supervision. Students will utilize practical classroom experiences to make connections between theory and practice, develop professional behaviors, and build a comprehensive understanding of children and families. Child centered, play-oriented approaches to teaching, learning, and assessment and knowledge of curriculum content areas will be emphasized as student teachers design, implement and evaluate experiences that promote positive development and learning for Infants and Toddlers. (L)

Prerequisite(s): ECE-1A; ECE-1B; ECE-3; ECE-31; ECE-33

ECE-46B **3 UNITS**

Practicum - Field Experience - School Age Children

TRANSFERABLE TO CSU
C-ID: ECE 210
18 LECTURE HOURS
108 LAB HOURS

A demonstration of developmentally appropriate early childhood teaching competencies under guided supervision. Students will utilize practical classroom experiences to make connections between theory and practice, develop professional behaviors, and build a comprehensive understanding of children and families. Child centered, play-oriented approaches to teaching, learning, and assessment and knowledge of curriculum content areas will be emphasized as student teachers design, implement and evaluate experiences that promote positive development and learning for all school age children. (L)

Prerequisite(s): ECE-1A; ECE-1B; ECE-3; ECE-14; ECE-31

ECE-46C **3 UNITS**

Practicum - Field Experience - Children With Special Needs

TRANSFERABLE TO CSU
C-ID: ECE 210
18 LECTURE HOURS
108 LAB HOURS

A demonstration of developmentally appropriate early childhood teaching competencies under guided supervision. Students will utilize practical classroom experiences to make connections between theory and practice, develop professional behaviors, and build a comprehensive understanding of children and families. Child centered, play-oriented approaches to teaching, learning, and assessment and knowledge of curriculum content areas will be emphasized as student teachers design, implement and evaluate experiences that promote positive development and learning for all young children, with emphasis on children with special needs. (L)

Prerequisite(s): ECE-1A; ECE-1B; ECE-3; ECE-17; ECE-31

ECE-210 **0.5 UNITS**

California Child Care Health Safety Course

9 LECTURE HOURS

Designed to meet the requirements of Assembly Bill 962. Subject matter relates to child day care and is appropriate for anyone dealing with children on a regular basis where knowledge of CPR, Pediatric First Aid, and Health and Safety training may be needed. Satisfies all requirements of the American Red Cross California Childcare Course. (L) Grades are P/NP Option only.

Ecology

ENVIRONMENTAL SCIENCE

ASSOCIATE IN SCIENCE FOR TRANSFER

The Associate in Science degree in Environmental Science for Transfer (AS-T) is intended to provide students with the first two years of core curriculum leading to a bachelor's degree in Environmental Science at a California State University. This interdisciplinary field focuses on how humans interact with their surroundings. Careers in environmental science include conducting research or advising policy at government agencies (such as the National Park Service or Environmental Protection Agency), environmental consulting, or conducting health inspections.

To earn this AS-T degree, students must meet the following Associate in Science Degree for Transfer requirements (pursuant to SB 1440 law):

- Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University. The Intersegmental General Education Transfer Curriculum (IGETC) for STEM or the California State University General Education-Breadth for STEM.
- A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
- Obtainment of a minimum grade point average of 2.0.
- Earn a "C" or better in all courses required for the major or area of emphasis or a 'P" if the course is taken on a pass/no pass basis.

Students who complete this program should be able to:

1. Demonstrate an understanding of topics revolving around the interactions between humans and their environment. This could be illustrated by knowledge of species interactions, natural cycles, environmental issues, or other topics.
2. Apply the scientific method by creating or assessing hypotheses, conducting experiments, correctly analyzing and interpreting data, and effectively communicating findings.
3. Practice decision making and problem solving by applying existing scientific research to environmental issues.

REQUIRED COURSES		UNITS
BIOL 1	Principles of Biology	5
CHEM 1A	General Chemistry	5
CHEM 1B	General Chemistry	5
ECOL 10	Environment-Concepts and Issues	3
ECON 1B	Economics-Macro	3
GEOL 10L	Physical Geology	4
Complete one course from:		
MATH 1A	Single Variable Calculus I-Early Transcendentals ***OR***	4
MATH 9	Calculus for Business, Social and Life Sciences	4
Complete one course from:		
PSYCH 6	Introduction to Statistics in Social and Behavioral Science ***OR***	4
STAT 1	Introduction To Statistical Methods	4
Complete eight units from one of the following groups;		
PHYS 2A	General Physics I	3
PHYS3A	General Physics I with Laboratory	1
PHYS 2B	General Physics II	3
PHYS 3B	GeberalPhysics II with Laboratory	1
OR		
PHYS 4A	Mechanics	4
PHYS 4B	Electromagnetism	4
TOTAL UNITS REQUIRED FOR DEGREE MAJOR		**41**

Students earning an AA-T/AS-T degree must complete 60 semester units of coursework eligible for transfer to the CSU including the IGETC (CSU version) for STEM, all courses in the major with "C" or better or "P" (pass) grades, and achieve a minimum transferable cumulative GPA of 2.0.

COURSES

ECOL-10 **3 UNITS**

Environment-Concepts and Issues

TRANSFERABLE TO CSU AND UC
C-ID: ENVS 110
54 LECTURE HOURS

The course presents fundamental physical, chemical, and biological principles in examining how natural ecosystems function and how human actions affect natural ecosystems. Emphasis is placed on the role of science in determining causes and in contributing sustainable solutions to local and global environmental problems. Topics include ecological principles, biodiversity, climate change, sustainability, renewable and non-renewable energy, water resources, air and water pollution, and solid waste management. (M,C)

ECOL-11 **1 UNIT**

Environment Lab

TRANSFERABLE TO CSU AND UC
54 LAB HOURS

Laboratory and field studies demonstrating the systematic study of both the biological and physical components of ecosystems, especially as seen in local organisms and ecosystems. (L,M,C) Grades are P/NP Option.

Co-requisite: ECOL-10

ECOL-12 **3 UNITS**

Marine Ecology

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

An introduction to the physical marine environment, marine life, and the interactions between the two. Course also includes a study of human impact upon the the marine environment. (L,M,C) Grades are P/NP Option.

Economics

ECONOMICS

ASSOCIATE IN ARTS FOR TRANSFER

Economics is the study of how the individual or society allocates scarce resources to satisfy unlimited wants.

The Associate in Arts in Economics for Transfer is designed to prepare students for a seamless transfer into the California State University (CSU) system to complete a baccalaureate degree in Economics or similar major. Students interested in transferring to a CSU campus to pursue a bachelor's degree in Economics should meet with a counselor to confirm the courses required for lower-division preparation in the major.

For Economics majors with the goal of applying to CSU as well as the University of California (UC), there is considerable overlap in coursework; students who are applying to UC should opt to take both MATH 1A and 1B. Students completing a bachelor's or more advanced degree in Economics may find employment as market researchers, educators, budget analysts, statisticians, economists, or government or banking employees.

This program has the following completion requirements:

- 60 semester units that are eligible for transfer to the CSU, including either:

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- The CSU General Education Breadth Requirements pattern, or
- The Intersegmental General Education Transfer Curriculum (IGETC) pattern.
- A minimum of 18 semester units in a major or area of emphasis, as described below, earning a grade of "C" or better, or "P" (pass) in these courses; and
- A minimum grade point average of 2.0 in the 60 transferable semester units.

Students who complete this program should be able to:

1. Explain terms and concepts used in macroeconomics and microeconomics.
2. Apply critical thinking skills to evaluate the credibility of economic theories, concepts, and research.
3. Solve problems requiring the application of economics, statistics, and mathematics.

REQUIRED COURSES

ECON 1A	Elementary Economics-Macro	3
ECON 1B	Elementary Economics-Micro	3
STAT 1	Introduction To Statistical Methods ***OR***	4
PSYCH 6	Introduction to Statistics in Social and Behavioral Science	4
MATH 1A	Single Variable Calculus I-Early Transcendentals ***OR***	4
MATH 9	Calculus for Business, Social and Life Sciences	4

List A: **Complete 3-5 units from the following:**

ACCT 1	Principles of Accounting-Financial ***AND***	4
ACCT 1A	Principles of Accounting-Financial Lab	0.5
ACCT 2L	Principles of Accounting-Managerial	5
MATH 1B	Single Variable Calculus II-Early Transcendentals	4
MATH 25	Finite Mathematics	3
COMSC 9A	C++ Programming ***OR***	4
COMSC 12	Java Programming	3

List B: **Complete 3-4 units from the following:**
Any course in List A not already used

MATH 1C	Multivariable Calculus	4
MATH 3	Linear Algebra	3
POLSC 7	International Relations	3
PSYCH 1A	General Psychology	3
SOCIL 1	Introduction to Sociology	3

TOTAL UNITS FOR DEGREE MAJOR 20-23

Students earning an AA-T/AS-T degree must complete 60 semester units of coursework eligible for transfer to the CSU including the CSU GE-B or IGETC (CSU), all courses in the major with "C" or better or "P" (pass) grades, and achieve a minimum transferable cumulative GPA of 2.0.

COURSES

ECON-1A **3 UNITS**

Elementary Economics-Macro

TRANSFERABLE TO CSU AND UC
C-ID: ECON 202
54 LECTURE HOURS

An introduction to macroeconomic concepts and principles of economic analysis. Topics include: foundations of economic life, national income and employment, financial systems, business cycles, money and banking, monetary and fiscal policy, economic growth and stability, public finance, international trade and the position of the U.S. within the context of the global economy, World Trade Organization policies, International Monetary Fund, World Bank structure, and global agricultural subsidies.

Prerequisite(s): MATH-101

ECON-1B **3 UNITS**

Elementary Economics-Micro

TRANSFERABLE TO CSU AND UC
C-ID: ECON 201
54 LECTURE HOURS

An introduction to Microeconomic concepts, principles, scarcity problems and policies. Theories include: equilibrium price, supply and demand, elasticity, marginal utility, cost and revenue concepts, market structure, labor economics, comparative economic systems and pricing the factors of production. Students learn to use economic principles to analyze the economic challenges facing the individual and business organization. (L)

Prerequisite(s): MATH-101 or MATH-101B or qualifying score on the mathematics placement test.

ECON-8 **3 UNITS**

Introduction to Public Policy

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

This course will provide students with an introductory course in Public Policy, and could serve as a foundation course for a future certificate program in Public Management. Public Management is identified as a high growth sector for jobs in the adjacent region to the south centered in Sacramento County, California. At Folsom Lake College in the Los Rios Community College District (Sacramento County), this course is identified with the following degrees and certificates: Business Analyst (Certificate); Business Analyst/Data Analytics (A.A. Degree); Law, Public Policy, and Society (A.A. for Transfer (AA-T) Degree); Public Management/Civil Service (A.A. Degree); and Public Management/Civil Service (Certificate). Grades are P/NP Option.

Limitations on Enrollment: Course not open for credit to students with credit in POLSC-8

Education

COURSES

EDUC-1 **3 UNITS**

Introduction To Teaching With Field Experience

TRANSFERABLE TO CSU AND UC
C-ID: EDUC 200
36 LECTURE HOURS
54 LAB HOURS

This course introduces students to the concepts and issues related to teaching diverse learners in today's contemporary schools, Kindergarten through Grade 12 (K-12). Topics include teaching as a profession and career, historical and philosophical foundations of the American education system, contemporary educational issues, California's content standards and frameworks, and teacher performance standards. in addition to class time, the course requires a minimum of 45 hours of structured fieldwork in public school elementary classrooms that represent California's diverse student population, and includes cooperation with at least one carefully selected and campus-approved certificated classroom teacher. (L)

Entrance Requirement(s): May require TB testing and fingerprint clearance.

EDUC-20 **1 UNIT**

Tutoring Seminar

TRANSFERABLE TO CSU
18 LECTURE HOURS

Tutor training involving the role and function of tutoring, the phases through which each tutoring session should progress, the behaviors of tutors and tutees during tutoring activities and the principal strategies by which the business of teaching and learning is handled in tutorials. (L)

Emergency Medical Technician

COURSES

EMT-61 **7 UNITS**

Emergency Medical Technician

112 LECTURE HOURS
58 LAB HOURS

The EMT program is a comprehensive curriculum that provides knowledge and critical thinking skills necessary to provide Emergency Medical Care in a pre-hospital environment. Academic rigor encompasses legal and moral aspects, scene safety, primary and secondary patient assessments, intervention and stabilization skills, proper use of emergency medical equipment, awareness of blood-borne pathogens and communicable diseases, recognizing signs and symptoms, and pathophysiology of medical emergencies and traumatic injuries. Practical skills training includes hands-on skills training and interactive simulations. This course meets EMT curriculum requirements of the California Code of Regulations Title 22, the California EMS Authority and the National Registry of Emergency Medical Technicians (NREMT). Upon successful completion, students are eligible to take the National Registry EMT certifying examination and qualify for a California State EMT certification. (L)

Prerequisite(s): EMT-510 or Current American Heart Association Basic Life Support CPR certification that will not expire during the course.

EMT-510 **0 UNITS**

Health Care Provider CPR

8 LECTURE HOURS
3 LAB HOURS

The American Heart Association's new basic life support course includes science and education from the 2015 Guidelines Update for CPR and ECC. This course teaches both single-rescuer and team basic life support skills for application in both prehospital and in-facility environments, with a focus on high-quality CPR and team dynamics. Grades are Satisfactory Progress (Noncredit).

EMT-552 **0 UNITS**

EMT-I Refresher

16 LECTURE HOURS
8 LAB HOURS

Designed to provide the student with review, up-date information, and skills assessment necessary for pre-hospital care of medical and traumatic emergencies. Includes AED instruction. Satisfies National Registry instruction and State requirements for EMT-1 refresher certification. (L) Grades are P/NP Only.

Entrance Requirement(s): Current certification as EMT-1.

Engineering

COURSES

ENGR-6 **3 UNITS**

Computational Problem Solving for Engineers

TRANSFERABLE TO CSU AND UC
36 LECTURE HOURS
54 LAB HOURS

This course focuses on numerical methods with computer application programs such as MATLAB and EXCEL to solve problems in engineering and science. Programming in MATLAB is a key skill developed in this course. Problems and applications from applied math, electrical circuits, biology, and other engineering and science fields are used. Grades are P/NP Option.

Prerequisite(s): MATH-1A

ENGR-10 **3 UNITS**

Introduction to Engineering & Science

TRANSFERABLE TO CSU AND UC
36 LECTURE HOURS
54 LAB HOURS

Exploration of the Science, Technology, Engineering and Mathematics (STEM) fields, particularly engineering, for both the decided engineering/STEM majors and others who may be curious about engineering. This course will provide the student with added college success skills which will improve his/her chances of succeeding in a technical field such as engineering. The course surveys the contemporary role of STEM professions in society, the engineering approach to problem solving, the design process, and ethics/responsibilities of engineers and scientists. The course offers a variety of hands-on activities and interactive laboratories. (L,M) Grades are P/NP Option.

ENGR-17 **3 UNITS**

Circuits for Engineers

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

This course covers introductory laws and theorems of electrical circuits; DC circuit analysis; natural and forced response analysis of first and second-order systems; and solutions using differential equations. Steady-state AC analysis covers the use of phasors, AC power calculations, power transfer, and energy concepts. Introduction is given to circuit devices and systems including resistors, capacitors, inductors, dependent sources, operational amplifiers, switches, transfer functions and frequency-selective circuits. (L,M)

Prerequisite(s): PHYS-4B

ENGR-17L **1 UNIT**

Circuits Laboratory for Engineers

TRANSFERABLE TO CSU AND UC
54 LAB HOURS

Electronic and electrical experiments to reinforce the principles taught in Engineering 17. Grades are P/NP Option. (L,M)

Co-requisite: ENGR-17

ENGR-45 **4 UNITS**

Properties of Materials

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS
54 LAB HOURS

An introductory course in properties of materials used in engineering; emphasis on the theory underlying the behavior of engineering materials. Includes a face-to-face laboratory component covering the testing of metals, polymers, composites, wood, and other materials. (L,M)

Prerequisite(s): CHEM-1A; PHYS-4A

English

ENGLISH

ASSOCIATE IN ARTS FOR TRANSFER

The Associate in Arts in English for Transfer degree gives students a broad background in writing, literature, and language analysis. It prepares students for the further study of English or a related field at a four-year school. As such, the AA-T in English is a good gateway toward a bachelor's degree in English and later a career in teaching, law, technical writing, creative writing, editing/publishing, marketing, or any occupation requiring clear communication skills.

The Associate in Arts in English for Transfer specifically provides a clearly articulated curricular track for students who wish to transfer to a California State University campus, while also serving the diverse needs of students interested in the breadth and depth of the field of English. This degree also exposes students to the core principles and practices of the field in order to build a foundation for their future personal or academic paths.

In addition to the major requirements, students seeking an Associate in Arts in English for Transfer degree (AA-T in English), must also complete or attain the following to comply with state law (SB 1440):

- 60 semester CSU-transferable units.
- The California State University-General Education Breadth Pattern (CSU GE-Breadth) or the Intersegmental General Education Transfer Curriculum (IGETC) pattern (CSU version).
- A minimum of 18 semester units in the major area of emphasis.
- 2.0 GPA.
- A grade of "C" or better in all courses required for the major or area of emphasis.

Students who complete this program should be able to:

1. Analyze the effects of their rhetorical choices.
2. Critically analyze a variety of texts.
3. Demonstrate proficiency in the academic writing process.
4. Explain the relevance of literary expression.
5. Analyze and interpret literary works with respect to their historical, cultural, and sociopolitical contexts.

REQUIRED COURSES		UNITS
ENGL 1B	Critical Thinking and Writing About Literature	4
List A - Complete two courses from the following:		
ENGL 30A	Introduction to American Literature I	3
ENGL 30B	Introduction to American Literature II	3
ENGL 46A	Intro to British Literature I	3
ENGL 46B	Intro to British Literature II	3
List B - Complete two courses from the following:		
Any course from List A not already used		3
ENGL 31A	Creative Writing I: Intro to the Genres	3
ENGL 36	American Ethnic Voices	3
ENGL 37	Women's Voices	3
ENGL 42	Introduction to Shakespeare	3
List C - Complete one course from the following:		
Any course from List A or List B not already used		3
ENGL 1C	Critical Thinking/Advanced Composition	3
ENGL 34	Introduction To Film	3
ENGL 38	Classic and Contemporary Youth Literature	3
ENGL 39	LGBT+ Literature and Film	3
HUMAN 34	Introduction To Film	3
MCOMM 19	News Writing and Reporting	3
SPECH 2	Oral Interpretation of Literature	3
THART 34	Introduction To Film	3
TOTAL UNITS REQUIRED FOR DEGREE MAJOR		**19**

Students earning an AA-T/AS-T degree must complete 60 semester units of coursework eligible for transfer to the CSU including the CSU GE-B or IGETC (CSU version), all courses in the major with "C" or better or "P" (pass) grades, and achieve a minimum transferable cumulative GPA of 2.0.

ENGLISH

ASSOCIATE IN ARTS

Students who complete this program should be able to:

1. Make effective rhetorical choices based on an accurate analysis of rhetorical context.
2. Analyze and interpret works from different historical and cultural traditions using appropriate conventions of literary analysis.
3. Apply reading strategies in order to critically analyze texts.
4. Gather, evaluate, and effectively integrate research materials.

REQUIRED COURSES		UNITS
ENGL 1B	Critical Thinking and Writing About Literature	4
ENGL 30A	Introduction to American Literature I ***OR***	
ENGL 30B	Introduction to American Literature II	3
ENGL 46A	Intro to English Literature I ***OR***	
ENGL 46B	Intro to English Literature II	3
Complete a minimum of nine units from the following:		
ENGL 1C	Critical Thinking/Advanced Composition	3
ENGL 30A	Introduction to American Literature I (if not already used)	3
ENGL 30B	Introduction to American Literature II (if not already used)	3
ENGL 31A	Creative Writing I: Intro to the Genres	3
ENGL 31B	Creative Writing II: Writing and Editing for Publication	3
ENGL 34	Introduction To Film	3
ENGL 36	American Ethnic Voices	3
ENGL 37	Women's Voices	3
ENGL 38	Classic and Contemporary Youth Literature	3

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ENGL 40A	Tutoring Reading and Writing I	1
ENGL 40B	Tutoring Reading and Writing II	1
ENGL 40C	Tutoring Reading and Writing III	1
ENGL 42	Introduction to Shakespeare	3
ENGL 46A	Introduction To British Literature I (if not already used)	3
ENGL 46B	Introduction To British Literature II (if not already used)	3
HUMAN 34	Introduction to Film	3
MCOMM 8	Introduction to Media Writing	3
MCOMM 19	News Writing and Reporting	3
MCOMM 20A	News Media Production 1	3
THART 34	Introduction to Film	3

TOTAL UNITS REQUIRED FOR DEGREE MAJOR 19

Students earning an AA/AS degree must complete a minimum of 18 units of General Education requirements, the multicultural graduation requirement, and the health requirement, in addition to the program units listed here. Students must complete a total of 60 degree applicable units to earn an AA or AS. Please see your counselor for additional information.

COURSES

ENGL1A **4 UNITS**

College Composition and Reading

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
C-ID: ENGL 100
72 LECTURE HOURS

An introductory course offering instruction in expository and argumentative writing, appropriate and effective use of language, close reading, cogent thinking, research strategies, information literacy, and documentation. Focus on the recursivity of writing processes and integrating reading, writing, and speaking skills. Students will write a minimum of 6000 words.

Prerequisite(s): ENGL-51 or ENGL-56 or by placement.

ENGL-1B **4 UNITS**

Critical Thinking and Writing About Literature

TRANSFERABLE TO CSU AND UC
C-ID: ENGL 110, ENG 120
72 LECTURE HOURS

Critical thinking and writing about literature; develops critical thinking, reading, and writing skills applicable to the analysis of prose, poetry, drama, and criticism from diverse cultural sources and perspectives; emphasis on the techniques and principles of effective written argument; some research required. (L)

Prerequisite(s): ENGL-1A or ENGL-1E

ENGL-1C **3 UNITS**

Critical Thinking/Advanced Composition

TRANSFERABLE TO CSU AND UC
C-ID: ENGL 105
54 LECTURE HOURS

Principles of critical thinking, reading, and writing beyond freshman composition; focuses on the principles of, and the development of, logical and analytical reasoning, argumentative writing, and on the principles of rhetoric (invention, arrangement, style, memory, delivery, modes of discourse, audience).

Prerequisite(s): ENGL-1A or ENGL-1E

ENGL-1E **5 UNITS**

College Composition and Reading Extended Instruction

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
C-ID: ENGL 100
90 LECTURE HOURS

An introductory course offering instruction in expository and argumentative writing, appropriate and effective use of language, close reading, cogent thinking, research strategies, information literacy, and documentation. Focus on the recursivity of writing processes and integrating reading, writing, and speaking skills. Emphasis on developing academic mindsets and student skills. Students will write a minimum of 6000 words.

Prerequisite(s): ENGL-51 or ENGL-56 or by placement.

ENGL-10 **1 UNIT**

Extended Instruction for College Composition and Reading

TRANSFERABLE TO CSU
18 LECTURE HOURS

This course incorporates and contextualizes reading, writing, and research strategies aligned with English 1A coursework. Coursework and class activities will be aligned to student need. Grades are P/NP Only.

Co-requisite: ENGL-1A or by placement.

ENGL-30A **3 UNITS**

Introduction To American Literature I

TRANSFERABLE TO CSU AND UC
C-ID: ENGL 130
54 LECTURE HOURS

A survey of American literature from its beginnings in 1620 to 1865. The course readings and discussion cover the evolution of literary traditions, contexts, and genres during that time period. Writers include, among others, Bradstreet, Taylor, Franklin, Emerson, Thoreau, Hawthorne, Melville, Poe, Whitman, Dickinson. Special attention will be paid to major literature genres, themes, and historical backgrounds.

Entrance Requirement(s): Successful completion of ENGL-1A or ENGL- 1E strongly recommended.

ENGL-30B **3 UNITS**

Introduction To American Literature II

TRANSFERABLE TO CSU AND UC
C-ID: ENGL 135
54 LECTURE HOURS

A survey of American Literature from 1865 through the early 21st Century. Writers covered include, among others, Clemens, Du Bois, James, Wharton, Frost, Faulkner, Hemingway, Hughes, Brooks, Wright, Roth, Rich, and Morrison.

Entrance Requirement(s): Successful completion of ENGL-1A or ENGL-1E strongly recommended.

ENGL-31A **3 UNITS**

Creative Writing I: Intro to the Genres

TRANSFERABLE TO CSU
C-ID: ENGL 200
54 LECTURE HOURS

Introduction to the craft of writing poetry, drama, fiction, and creative non-fiction. Conducted primarily as a workshop in which students analyze examples by professional writers in the various genres, write original pieces in the various genres, practice and apply specific craft techniques, and critique their own work and the work of other students. (L,C)

ENGL-31B **3 UNITS**

Creative Writing II: Writing and Editing for Publication

TRANSFERABLE TO CSU
54 LECTURE HOURS

This course focuses on literary editing and preparing poetry, drama, fiction, and creative non-fiction for publication. This includes both original work by students and the evaluation of submissions for inclusion in a literary journal/publication. The course is conducted primarily as a workshop. Students will give and apply in-depth criticism of original student pieces and work as an editorial board, evaluating creative work submitted for publication. (L)

Prerequisite(s): ENGL-31A

Entrance Requirement(s): Successful completion of ENGL 1A is strongly recommended. Complete or be enrolled in ENGL 1B is encouraged.

ENGL-34 **3 UNITS**

Introduction to Film

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

Study of film as art and its influence on society, including interpretation, criticism, and technical developments; students view and discuss full-length feature films. (L)

Limitations on Enrollment: Course not open for credit for students with credit in HUMAN-34 or THART-34.

ENGL-36 **3 UNITS**

American Ethnic Voices

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

Survey of selected American ethnic writers of African, European, Native American, Central/South American, Mexican-American, Asian, and Middle Eastern descent, focusing on how these writings contribute to the dialogue of American voices and how the writings both reflect and shape a definition of American Culture.

ENGL-37 **3 UNITS**

Women's Voices

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

An exploration of the thematic and stylistic elements of literature by and about women. Texts will be selected from a variety of ethnic groups in the United States and/or the world with an emphasis on the ways women's lives have been shaped by societal expectations: gender roles, sexuality identity and expression, socio-economic status, and ethnic and/or religious identities. The course will also focus on the ways that historical and ancient cultures are a foundation for understanding contemporary women's literature.

ENGL-38 **3 UNITS**

Classic and Contemporary Youth Literature

TRANSFERABLE TO CSU AND UC
C-ID: ENGL 180
54 LECTURE HOURS

Examines representative works of children's and young adult literature, with emphasis on developing students' close reading and analytical writing skills while promoting an appreciation for the aesthetic qualities of literature directed at young people. Emphasizes contemporary texts, classic works, and the socio-historical contexts of children's and YA literature. Explores common literary elements and subgenres, such as fantasy and the quest, the school story, fable and folk tale, cautionary tales, and coming-of-age stories. Emphasizes literature from diverse authors and communities. (L)

ENGL-39 **3 UNITS**

LGBT+ Literature and Film

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

A course that focuses on the work of lesbian, gay, bisexual, transgender, queer, questioning, intersex, asexual, and pansexual (LGBTQ+) authors and filmmakers and introduces students key themes, historical contexts, and theoretical frameworks. Readings and viewings will examine the representation of "queer" identities in modern literature and film and how LGBTQ+ artists have responded to dominate cultural ideas about gender and sexuality in their work. The course will emphasize how LGBTQ+ authors of diverse backgrounds and cultures have contributed to the major artistic movements of the 20th and 21st centuries while producing their own creative traditions. Grades are P/NP Option.

ENGL-40A **1 UNIT**

Tutoring Reading and Writing I

TRANSFERABLE TO CSU
18 LECTURE HOURS

A training program that prepares student tutors to support peers as they work with academic reading and writing assignments across the disciplines. This course includes an introduction to research-backed learning theories and tutoring strategies.

Prerequisite(s): ENGL-1A or ENGL-1E

ENGL-40B **1 UNIT**

Tutoring Reading and Writing II

TRANSFERABLE TO CSU
18 LECTURE HOURS

An advanced training program in English composition to prepare students to tutor writing skills in a coherent and supportive manner.

Prerequisite(s): ENGL-40A

ENGL-40C **1 UNIT**

Tutoring Reading and Writing III

TRANSFERABLE TO CSU
18 LECTURE HOURS

An advanced training program that further prepares student tutors to support English Language Learner (ELL) peers as they work with academic reading and writing assignments in non-ESL courses across the disciplines. This course includes additional inquiry into research-backed ELL learning theories and tutoring strategies, with an emphasis on adapting tutoring strategies to specific ELL contexts.

Prerequisite(s): ENGL-40B

ENGL-42 **3 UNITS**

Introduction to Shakespeare

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

Studies significant features of Shakespeare's life, Renaissance theatre, Elizabethan and Jacobean English. Covers a selection of plays, including comedies, tragedies, and histories, and many sonnets. (L)

ENGL-46A **3 UNITS**

Introduction To British Literature I

TRANSFERABLE TO CSU AND UC
C-ID: ENGL 160
54 LECTURE HOURS

Survey of English Literature from its beginnings to the end of the 18th Century; writers include, among others, Chaucer, Shakespeare, Donne, Milton, and Pope; special attention paid to major literary genres.

Entrance Requirement(s): Successful completion of ENGL-1A or ENGL-1E strongly recommended.

ENGL-46B **3 UNITS**

Introduction To British Literature II

TRANSFERABLE TO CSU AND UC
C-ID: ENGL 165
54 LECTURE HOURS

Survey of English Literature from the end of the 18th Century to the present; writers include, among others, Blake, Wordsworth, Coleridge, Tennyson, Arnold, Joyce, Yeats, and Eliot; special attention paid to major literary genres.

Entrance Requirement(s): Successful completion of ENGL-1A or ENGL-1E strongly recommended.

ENGL-56 **5 UNITS**

Accelerated Preparation for College Composition and Reading

90 LECTURE HOURS

Accelerated preparation for College Composition and Reading (English 1A). Intensive instruction in the academic mindsets, reading,reasoning, and writing expected in transfer and associate-degree courses. Students engage in extensive academic reading of college-level texts and write a minimum of 10,000 words. Successful completion allows students to enroll in English 1A.

Entrance Requirement(s): ENGL-105 or by placement.

English as a Second Language

ACADEMIC PREPAREDNESS AND CAREER DEVELOPMENT

CERTIFICATE OF ADVANCEMENT

The Certificate of Advancement in Academic Preparedness and Career Development prepares advanced level students with the English language and literacy skills needed to function independently in most vocational and academic situations. The certificate focuses on developing the requisite level of grammar, reading, writing and speaking skills needed to transition into mainstream courses or to be successful in seeking appropriate employment.

Students who complete this program should be able to:

1. Demonstrate ability to write coherent expository essays and/or summary-responses at a level sufficient to transition to 56 and/or ENG 1A.
2. Demonstrate ability to produce and comprehend advanced grammatical structures at a level sufficient to transition to 56 and/or ENG 1A.
3. Demonstrate grammar, listening, speaking, and reading skills needed to clearly communicate and understand information and ideas in personal, academic, and vocational settings.

REQUIRED COURSES

ESL 40A	Low-Advanced Grammar and	3
ESL 116A	Academic Reading and Writing for ESL 1 ***OR***	4
ESL 116B	Academic Reading and Writing for ESL 2	4

TOTAL UNITS REQUIRED FOR CERTIFICATE **7**

ACADEMIC PREPAREDNESS AND CAREER DEVELOPMENT

CERTIFICATE OF COMPETENCY

The Certificate of Competency in Academic Preparedness and Career Development prepares advanced-level students with the English language and literacy skills needed to function independently in most vocational and academic situations. The certificate focuses on developing the requisite level of grammar, reading, writing and speaking skills needed to transition into mainstream courses or to be successful in seeking appropriate employment.

Students who complete this program should be able to:

1. Demonstrate ability to write coherent expository essays and/or summary-responses at a level sufficient to transition to ENG 56 and/or ENG 1A.
2. Demonstrate ability to produce and comprehend advanced grammatical structures at a level sufficient to transition to 56 and/or ENG 1A.
3. Demonstrate grammar, listening, speaking, and reading skills needed to clearly communicate and understand information and ideas in personal, academic, and vocational settings.

REQUIRED COURSES		**UNITS**
ESL 540A	Low-Advanced Grammar	0
ESL 516A	Academic Reading and Writing for ESL 1 ***OR***	
ESL 516B	Academic Reading and Writing for ESL 2	0

TOTAL UNITS REQUIRED FOR CERTIFICATE **0**

FOUNDATIONS OF LITERACY

CERTIFICATE OF COMPETENCY

The Certificate of Competency in Foundations of Literacy prepares students with little or no knowledge of English with basic English language and literacy skills needed to function at a beginning level in everyday situations at work, school and in the community.

Students who complete this program should be able to:

1. Write simple paragraphs containing simple sentences in simple present and present continuous sentences.
2. Demonstrate ability to function in basic English listening and speaking situations at work, school, and in the community:

REQUIRED COURSES		**UNITS**
ESL 524	English Conversation, Level 2	0
ESL 525	Integrated ESL Skills, Level 2	0

TOTAL UNITS REQUIRED FOR CERTIFICATE **0**

INTERPERSONAL COMMUNICATION

CERTIFICATE OF COMPETENCY

The Certificate of Competency in Interpersonal Communication prepares students who have a low-intermediate background in English with the language skills required to function at a high-intermediate level in a variety of vocational and academic situations. The program focuses particularly on the acquisition of grammar, reading, writing and speaking skills needed to function independently at work, school and in the community.

Students who complete this program should be able to:

1. Demonstrate listening and speaking skills needed to communicate at work, at school, and in the community using studied materials, vocabulary, and grammar.
2. Use reading and writing skills to read and understand a variety of written texts at work, school, and in the community.

REQUIRED COURSES

ESL 563	High-Intermediate Grammar	0
ESL 568	High-Intermediate Writing and	0

PLUS ONE OF THE FOLLOWING:

ESL 539 ECE	English Skills for Parents and Child Care Providers	0
ESL 549 COM	Computer Skills for ESL Students	0
ESL 559 EMP	English for Employment	0
ESL 559 MAT	The Language of Mathematics for ESL Students	0
ESL 565	Integrated ESL Skills, Level 6	0

TOTAL UNITS REQUIRED FOR CERTIFICATE 0

LIFE SKILLS

CERTIFICATE OF COMPETENCY

The Certificate of Competency in Life Skills prepares students with beginning academic background in English with life skills needed to function at a low-intermediate level in everyday situations at work, school, and in the community.

Students who complete this program should be able to:

1. Write a well-developed paragraph with a topic sentence, supporting ideas, and a concluding sentence at a low-intermediate level.
2. Create, format, type, save, and revise a Word document on a computer for academic assignments and personal needs.

REQUIRED COURSES		UNITS
ESL 543	Low Intermediate Grammar	0
ESL 545	Integrated ESL Skills, Level 4	0

PLUS ONE OF THE FOLLOWING:

ESL 539 ECE	English Skills for Parents and Child Care Providers	0
ESL 539 MAT	The Language of Arithmetic for ESL Students	0
ESL 549 COM	Computer Skills for ESL Students	0

TOTAL UNITS REQUIRED FOR CERTIFICATE 0

COURSES

ESL-40A **3 UNITS**

Low-Advanced Grammar

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

Low-advanced grammar for ESL students. This course introduces students to a theme-based grammar and teaches them to read, write and speak English with grammatical accuracy and fluency in real-life contexts. Includes a functional study of the 12 tenses.

Prerequisite(s): ESL-263 or ESL-563 or by placement.

Advisory: Concurrent enrollment in ESL-116A/B, ESL-516A/B, or ENGL-51/56/1A is highly recommended.

ESL-116A **4 UNITS**

Academic Reading and Writing for ESL 1

72 LECTURE HOURS

This course emphasizes the development of basic reading and writing skills including active reading and writing processes, vocabulary development, grammar and mechanics, simple and compound sentences, paragraph development, summary-response compositions, and small group and whole class work to strengthen basic reading and writing skills. Concurrent enrollment in 40A, 40B, and/or 40C recommended.

Prequisite(s): ESL-265 or ESL-565 or ESL-268 or ESL-568 or by placement.

ESL-116B **4 UNITS**

Academic Reading and Writing for ESL 2

72 LECTURE HOURS

This course emphasizes the development of reading and writing skills including varied sentence types, use of phrases and clauses, grammar and mechanics, paragraphs, summary-response, short essays, the writing process, and small group and whole class work to strengthen basic reading skills, make inferences and read critically.

Prerequisite(s): ESL-116A or ESL-516A or by placement.

ESL-253 **3 UNITS**

Intermediate Grammar

54 LECTURE HOURS

Intermediate grammar for ESL students. This course introduces students to writing paragraphs and/or compositions containing compound and complex sentences in present, past, and future tenses.

Prerequisite(s): ESL-243 or ESL-543 or by placement.

Advisory: Concurrent enrollment in ESL-255/555 or 258/558 is highly recommended.

ESL-255 **5 UNITS**

Integrated ESL Skills, Level 5

90 LECTURE HOURS

Language development for high-intermediate limited English speakers. Concentration on all language skills - reading, writing, speaking, listening, and grammar. This course is the fifth in a series of six integrated skill courses (515, 525, 535, 545, 555/255, and 565/265).

Prerequisite(s): ESL-245

ESL-258 **4 UNITS**

Intermediate Writing

72 LECTURE HOURS

Writing for intermediate ESL. Develops ability to write more detailed paragraphs using simple and compound sentences in varied verb tenses with proper grammar and mechanics.

Prerequisite(s): ESL-245 or by placement.

Advisory: Concurrent enrollment in ESL-253/553 or 255/555 is highly recommended.

ESL-259EMP **3 UNITS**

English for Employment

54 LECTURE HOURS

Prepares students for vocational training and/or employment. Includes vocabulary for the world of work and skill development for job search, application and job retention. Intended for non- native English speakers with at least intermediate English proficiency. (L,C)

ESL-259MAT **3 UNITS**

The Language of Mathematics for ESL Students

54 LECTURE HOURS

This course develops the English speaking abilities of non-native English speakers specifically in regards to the language and vocabulary of mathematics as it is used in the American educational system. Students will learn to read, write, and verbally express mathematical words, numbers, and notations.

ESL-263 **3 UNITS**

High-Intermediate Grammar

54 LECTURE HOURS

High-intermediate grammar for ESL students. This course introduces students to reading and writing short paragraphs and/or compositions containing compound and complex sentences in present, past, present perfect, and future tenses.

Prerequisite(s): ESL-253 or ESL-553 or by placement.

Advisory: Concurrent enrollment in ESL 265/565 or 268/568 is highly recommended.

ESL-265 **5 UNITS**

Integrated ESL Skills, Level 6

90 LECTURE HOURS

Language development for high-intermediate limited English speakers. Concentration on all language skills - reading, writing, speaking, listening, and grammar. This course is the last in a series of six integrated skill courses (225, 225, 235, 245, 255, and 265) leading to a certificate of completion in English at the high-intermediate level. Prepares students for college-level courses.

Prerequisite(s): ESL-255

ESL-268 **4 UNITS**

High-Intermediate Writing

72 LECTURE HOURS

Writing for high-intermediate ESL students. Further develops ability to write longer, correctly formatted paragraphs and short compositions with simple, compound, and complex sentences using proper grammar, spelling, and verb tenses.

Prerequisite(s): ESL-255 or ESL-555 or ESL-258 or ESL-558 or by placement.

Advisory: Concurrent enrollment in ESL-263/563 and 265/565 is highly recommended.

ESL-512 **0 UNITS**

Low-Beginning Listening and Pronunciation

54 LECTURE HOURS

Listening and pronunciation for beginners. Emphasis on increased listening and comprehension and oral fluency of simple spoken English in common daily personal communication. Novice vocabulary and structures.

Prerequisite(s): By placement.

Advisory: Concurrent enrollment in ESL- 514 and 515 is highly recommended.

ESL-514 **0 UNITS**

English Conversation, Level 1

28-36 LECTURE HOURS

The first course in conversation for low-beginning ESL students. Develops basic listening and speaking skills using everyday conversation in small groups and one-on-one. Emphasis on listening comprehension, pronunciation, intonation, and role-playing simulations. Students will develop basic English vocabulary and grammar necessary for successful communication. Topics include personal and family information, daily activities, and other subjects of general interest. Grades are P/NP Only.

Advisory: Concurrent enrollment in ESL-512, 515, and 562L is highly recommended.

ESL-515 **0 UNITS**

Integrated Skills, Level 1

90 LECTURE HOURS

Language development for low-beginning, limited English speakers. Concentration on all language skills-reading, writing, listening, speaking, and grammar. This is the first course in a series of six. Prepares students for ESL 525 and other level two ESL courses.

ESL-516A **0 UNITS**

Academic Reading and Writing for ESL 1

64-72 LECTURE HOURS

This course emphasizes the development of basic reading and writing skills including active reading and writing processes, vocabulary development, grammar and mechanics, simple and compound sentences, paragraph development, summary-response compositions, and small group and whole class work to strengthen basic reading and writing skills.

Prerequisite(s): ESL-265 or ESL-565 or ESL-268 or ESL-568 or by placement.

Advisory: Concurrent enrollment in ESL-40A, 40B, and/or 40C is recommended.

ESL-516B **0 UNITS**

Academic Reading and Writing for ESL 2

64-72 LECTURE HOURS

This course emphasizes the development of reading and writing skills including varied sentence types, use of phrases and clauses, grammar and mechanics, paragraphs, summary-response, short essays, the writing process, and small group and whole class work to strengthen basic reading skills, make inferences and read critically.

Prerequisite(s): ESL116A/516A or by placement.

ESL-522 **0 UNITS**

Beginning Listening and Pronunciation

48-54 LECTURE HOURS

This course covers listening and pronunciation for beginners. Emphasis will be placed on increasing listening comprehension and oral fluency of simple spoken English in common daily personal and academic communication.Grades are P/NP Only.

Advisory: Concurrent enrollment in ESL-524, 525, and 526L is highly recommended.

ESL-524 **0 UNITS**

English Conversation, Level 2

28-36 LECTURE HOURS

The second course in conversation for low-beginning ESL students. Builds on basic listening and speaking skills using everyday conversation in small groups and one-on-one. Emphasis on listening comprehension, pronunciation, intonation, and role-playing simulations. Students will further develop English vocabulary and grammar necessary for successful communication. Topics include comparison of students' and American cultures, geographic directions, clarification techniques, and other subjects of interest. ades are P/NP Only.

Advisory: Concurrent enrollment in ESL-225/525, 222/522, 223/523, and 226L/526L is highly recommended.

ESL-525 **0 UNITS**

Integrated ESL Skills, Level 2

90 LECTURE HOURS

Language development for beginning, limited English speakers. Concentration on all language skills: reading, writing, listening, speaking, and grammar. This is the second course in a series of six. Prepares students for ESL 535 and other level three ESL courses. Grades are P/NP Only.

ESL-526L **0 UNITS**

English As a Second Language, Lab 1

36-54 LECTURE HOURS

Supplements English as a Second Language Levels 1 through 3 courses by providing additional academic support, practice, and exercises in grammar, reading, writing, vocabulary, listening comprehension, pronunciation, speaking and conversation. Students receive individualized and group instruction under supervision as needed. Grades are P/NP Only.

ESL-533 **0 UNITS**

High-Beginning Grammar

48-54 LECTURE HOURS

High-beginning grammar for ESL students. This course introduces students who have beginning language skills to simple sentences and short paragraphs in simple past and past continuous tenses Grades are P/NP Only.

Advisory: Concurrent enrollment in ESL-535 is highly recommended.

ESL-535 **0 UNITS**

Integrated ESL Skills, Level 3

90 LECTURE HOURS

Language development for high-beginning limited English speakers; concentration on all language skills: listening, speaking, reading, writing, and grammar. This is the third course in a series of six. Prepares students for ESL 545 and ESL level four courses. Grades are P/NP Only.

ESL-539ECE **0 UNITS**

English Skills for Parents and Child Care Providers

90 LECTURE HOURS

This high-beginning course develops oral and written communication skills in standard English within the context of childcare, child rearing, and parenting. Students develop and practice the listening, speaking, reading, and writing skills useful for communicating with and about children at different stages of development on topics including day-to-day care, health, and safety. This course is intended for non-native speakers of English who are parents, grandparents, childcare providers, preschool teachers, and students of Child Development. This course is recommended for non-native speakers at high-beginning level. Grades are P/NP Only.

Advisory: It is recommended that students enroll in or have successfully completed ESL-235/535.

ESL-539MAT **0 UNITS**

The Language of Arithmetic for ESL Students

54 LECTURE HOURS

This course is intended to develop the abilities of speakers of other languages and cultures to (1) read and comprehend, (2) write, in words, numbers, and notations, and (3) verbally express the language of arithmetic necessary for appropriate computations using whole numbers within standards of the American educational system, including, but not necessarily limited to addition, subtraction, multiplication, and division. Grades are P/NP Only.

Prerequisite(s): ESL-223 or ESL-523; ESL- 225 or ESL-525 or by placement.

ESL-540A **0 UNITS**

Low-Advanced Grammar

48-54 LECTURE HOURS

Low-advanced grammar for ESL students. This course introduces students to a theme-based grammar and teaches them to read, write and speak English with grammatical accuracy and fluency in real-life contexts. Includes a functional study of the 12 tenses. Grades are P/NP Only.

Prerequisite(s): ESL-263 or ESL-563 or by placement.

Advisory: Concurrent enrollment in ESL-116A/B, ESL-516A/B or ENGL-51/56/1A is highly recommended.

ESL-543 **0 UNITS**

Low-Intermediate Grammar

48-54 LECTURE HOURS

Low-intermediate grammar for ESL students. This course introduces students to writing paragraphs containing both compound and complex sentences in past, present, and future tenses. Grades are P/NP Only.

Advisory: Concurrent enrollment in ESL-545 is recommended.

ESL-545 **0 UNITS**

Integrated Skills, Level 4

90 LECTURE HOURS

Language development for low-intermediate limited English speakers. Concentration on all language skills: listening, speaking, reading, writing, and grammar. This is the fourth course in a series of six leading to a certificate of completion in English at the low-intermediate level. Grades are P/NP Only.

ESL-546LR **0 UNITS**

English as a Second Language, Lab 2

36-54 LAB HOURS

Supplements English as a Second Language Levels 4 through 6 courses by providing additional academic support, practice, exercises and other academic activities in grammar, reading, writing, vocabulary, listening comprehension, pronunciation, and conversation. Students receive individualized and group instruction under supervision. Grades are P/NP Only.

Other: Course is Open Entry/Open Exit

ESL-549COM **0 UNITS**

Computer Skills for ESL Students

54 LECTURE HOURS

Provides students with the basic computer and word processing skills necessary to format, type, retrieve, and revise simple documents. Students learn to use varied software and perform basic research related to their academic needs and future employment using the internet. Additionally, students will work on English skills, such as reading and following directions (both reading and listening), and development of vocabulary related to computers. Intended for non-native English speakers with at least low-intermediate English proficiency. Grades are P/NP Option.

Advisory: Concurrent enrollment in level 4 ESL courses (e.g. 245, 243) is strongly recommended.

ESL-553 **0 UNITS**

Intermediate Grammar

48-54 LECTURE HOURS

Intermediate grammar for ESL students. This course introduces students to writing paragraphs containing compound and complex sentences in present, past, and future tenses. Grades are P/NP Only.

Prerequisite(s): ESL-243 or ESL-543 or by placement.

ESL-555 **0 UNITS**

Integrated ESL Skills, Level 5

90 LECTURE HOURS

Language development for intermediate limited English speakers. Concentration on all language skills - reading, writing, speaking, listening, and grammar. This non-credit course is the fifth in a series of six non-credit integrated skill courses (515, 525, 535, 545, 555, and 565) leading to a certificate of completion in English at the high-intermediate level. Grades are P/NP Only.

Prerequisite(s): ESL-245 or ESL-545 or by placement.

ESL-558 **0 UNITS**

Intermediate Writing

Writing for intermediate ESL. Develops ability to write more detailed paragraphs using simple and compound sentences in varied verb tenses with proper grammar and mechanics. Grades are P/NP Only.

Prerequisite(s): ESL-245 or ESL-545 or by placement.

Advisory: Concurrent enrollment in ESL 253/553 and 255/555 is highly recommended.

ESL-559EMP **0 UNITS**

English for Employment

48 LECTURE HOURS

Prepares students for vocational training and/or employment. Includes vocabulary for the world of work and skill development for job search, application and job retention. Intended for non-native English speakers with at least intermediate English proficiency. (L,C) Grades are P/NP Only.

Prerequisite(s): By placement

Advisory: Concurrent enrollment in ESL-253/553, ESL-255/555 and ESL-258/558 is highly recommended.

ESL-559MAT **0 UNITS**

The Language of Mathematics for ESL Students

54 LECTURE HOURS

This course develops the English speaking abilities of non-native English speakers specifically in regards to the language and vocabulary of mathematics as it is used in the American educational system. Students will learn to read, write, and verbally express mathematical words, numbers, and notations. Grades are P/NP Only.

ESL-563 **0 UNITS**

High-Intermediate Grammar

48-54 LECTURE HOURS

High-intermediate grammar for ESL students. This course introduces students to reading and writing short paragraphs and/or compositions containing compound and complex sentences in present, past, present perfect, and future tenses. Grades are P/NP Only.

Prerequisite(s): ESL-253 or ESL-533 or by placement.

Advisory: Concurrent enrollment in ESL-265/565 or 268/568 is highly recommended.

ESL-565 **0 UNITS**

Integrated ESL Skills, Level 6

90 LECTURE HOURS

Language development for high-intermediate limited English speakers. Concentration on all language skills - reading, writing, speaking, listening, and grammar. This non-credit course is the fifth in a series of six non-credit integrated skill courses (515, 525, 535, 545, 555, and 565) leading to a certificate of completion in English at the high-intermediate level. Grades are P/NP Only.

Prerequisite(s): ESL-255 or ESL-555 or by placement.

ESL-568 **0 UNITS**

High-Intermediate Writing

72 LECTURE HOURS

Writing for high-intermediate ESL students. Further develops ability to write longer, correctly formatted paragraphs and short compositions with simple, compound, and complex sentences using proper grammar, spelling and verb tenses. Concurrent enrollment in ESL 263/563 and 265/565 is highly recommended. Grades are P/NP Only.

Prerequisite(s): ESL-255 or ESL-555 or ESL-258 or ESL-558 or by placement.

Advisory: Concurrent enrollment in ESL-253/553 and 255/555 is highly recommended.

Ethnic Studies

COURSES

ETHN-1 **3 UNITS**

Introduction to Chicana and Chicano Studies

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

This course surveys the origins of Chicana/o Studies in relation to contemporary Chicano culture. Analysis placed on the development of the field and theories of racialization and intersectionality. A cultural politics approach examines a range of expressive arts such as: muralism, film, literature, music, comedy, dance, and celebrations. Intended for students interested in history, Chicano and Ethnic Studies, or other social issues. (L,C) Grades are P/NP Option.

ETHN-4 **3 UNITS**

Chicana Thought and Cultural Expression

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

This course is the study of the Chicana in American society in historical and sociological perspective. Emphasis is placed on Chicana feminist scholarship, cultural representations, and resistance to racism, patriarchy, and white supremacy. This course is designed for all students interested in Gender, Chicana, and Ethnic Studies. (L,C) Grades are P/NP Option

ETHN-11 **3 UNITS**

Introduction to Ethnic Studies

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

This course provides an introduction to the interdisciplinary study of race and ethnicity in the United States. The course will examine key topics such as racial discrimination, immigration, economics, labor, political conditions, cultural expression and resistance, social justice movements, racial and ethnic identity, and gender and sexuality. A comparative approach covering African American, Arab American, Asian American, Chicanx/Latinx, Native American, and Pacific Islander American groups. (L,C) Grades are P/NP Option.

Fire Technology

FIRE TECHNOLOGY

ASSOCIATE IN SCIENCE

The Fire Technology program prepares students for a career in the fire service and provides educational and training opportunities for employment with Career, Combination, and Volunteer agencies. in addition, this program provides courses to enable students to advance in their career and apply for promotion at the driver operator and company officer level. The Associate Degree and Certificate programs incorporate the standardized Fire Technology curriculum identified as model curriculum through the offices of the California State Chancellor. in addition, the required courses and many electives are compliant with the National Fire Administration's Fire and Emergency Services Higher Education (FESHE) model. Many elective courses are developed under the guidelines of related fire service training and educational programs such as the California State Fire Marshal (C.F.S.T.E.S, and F.S.T.E.P.), DOT (Department of Transportation), FEMA (Federal Emergency Management Agency), and the National Fire Academy.

Students who complete this program should be able to:

1. Demonstrate technical, cognitive, and psycho-motor skills necessary to achieve and maintain employment in the fire service.
2. Demonstrate knowledge and understanding of fire service industry history, trends, operational developments, and legal implications.
3. Demonstrate respect and acceptance for differing opinions, feelings, and values of others through the development of listening skills that promote ethical and equitable application of FIRE and EMS services through classroom discussion, activities, and written assignments.
4. Communicate effectively in both oral presentation and written reports.

REQUIRED COURSES		UNITS
FIRTC 1	Fire Protection and Emergency Services	3
FIRTC 2	Fire Prevention Technology	3
FIRTC 3	Fire Protection Equipment and Systems	3
FIRTC 4	Building Construction for Fire Protection	3
FIRTC 5	Fire Behavior and Combustion	3
FIRTC 6	Principles of Fire and Emergency Services Safety and Survival	3
Complete a minimum of six units from the following:		
EMT 61	Emergency Medical Technician	7
FIRTC 60	Title 22 Public Safety First Aid/CPR Course (21 hour)	0.5
FIRTC 66	Basic Wildland Firefighter	9
FIRTC 69	Firefighter II Academy	4.5
FIRTC 70A	Company Officer 2A-Human Resources	2
FIRTC 70B	Company Officer 2B-General Administrative Functions	1
FIRTC 70C	Company Officer 2C-Fire Inspections and Investigation	2
FIRTC 70D	Company Officer 2D-All Risk Command Operations	2
FIRTC 70E	Company Officer 2E-Wildland Incident Operations	2
FIRTC 70F	Instructor 1-Instructional Methodology	2
FIRTC 74	Intermediate Wildland Fire Behavior S-290	1.5
FIRTC 75	Hazardous Materials-FRO/Decon	1
FIRTC 77	HAZMAT Incident Commander	0.5
FIRTC 84	Low Angle Rope Rescue Operations	1
TOTAL UNITS REQUIRED FOR DEGREE MAJOR		**24**

Students earning an AA/AS degree must complete a minimum of 18 units of General Education requirements, the multicultural graduation requirement, and the health requirement, in addition to the program units listed here. Students must complete a total of 60 degree applicable units to earn an AA or AS. Please see your counselor for additional information.

FIRE FIGHTER 1 ACADEMY

ASSOCIATE IN SCIENCE

General Information: Yuba College offers an Associate Degree-Fire Academy program leading to certification as a Fire Fighter 1 through the California State Fire Marshall. A career ladder program for Fire Fighters wishing to advance to positions such as Fire Fighter 2, Driver Operator, and Company Officer is also available. All students are advised to check the Yuba College Website for Fire Technology (https://yc.yccd.edu/publicsafety/home-page/fire-technology/) often for new information relative to application and admission. Graduates of the Fire Fighter 1 course will have a variety of employment opportunities in local, state and federal firefighting positions. This program offers two versions of the Fire Fighter 1 academy with and without EMT 1 included.

Costs: In addition to the expenses of regularly enrolled students (living costs, activity fees, books, tuition, etc.), Fire Academy students have the additional expenses of uniforms, personal protective equipment, state certification testing, health examination, drug testing, and criminal

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background checks. Fire Technology students are eligible for grants and loans available to any Yuba College student meeting the financial aid criteria.

Drug Policy: Yuba College has a "zero tolerance" policy; all campuses and centers are to be alcohol and drug free. See the student manual for more information.

Criminal Background Checks: For students choosing the academy with EMT 1 included, background checks will be required. All clinical agencies used in the EMT 1 programs require criminal background screening. Applicants who are found to have certain violations that preclude clinical placement will not be able to complete the EMT 1 requirements. National Registry Testing and State EMT 1 Certification requires an additional Live Scan criminal background check. Costs associated with the background screening is the responsibility of the student.

Prerequisite Advisory: It is highly recommended to complete FIRTC 1-Introduction to the Fire Service and Emergency Services and FIRTC 6-Fire Fighter Safety and Survival.

Ee=nrollment Eligibiility: To apply for enrollment in the program, the student must complete an application which must be received by the Fire Technology Department prior the application deadline as explained on the department website. If more applications are received than available course openings, a scoring matrix will be used to admit applicants to the program. Information about the scoring matrix is available on the Fire Technology Website.

Enrollment Process: Once eligible students are selected for the program, additional actions must be taken such as completing a physical exam, purchase all books, unforms, and procure required personal protective equipment.

Students who complete this program should be able to:

1. Demonstrate technical, cognitive, and psycho-motor skills necessary to achieve and maintain employment in the fire service.
2. Demonstrate knowledge and understanding of fire service industry history, trends, operational developments, and legal implications.
3. Demonstrate respect and acceptance for differing opinions, feelings, and values of others through the development of listening skills that promote ethical and equitable application of FIRE and EMS services through classroom discussion, activities, and written assignments.
4. Communicate effectively in both oral presentation and written reports.

REQUIRED COURSES		UNITS
FIRTC 63	Fire Fighter 1 Academy without EMT 1 ***OR***	15
FIRTC64	Fire Fighter 1 Academy with EMT 1	22

Complete five to nine (5-9) units from the following:

FIRTC 1	Fire Protection and Emergency Services	3
FIRTC 2	Fire Prevention Technology	3
FIRTC 3	Fire Protection Equipment and Systems	3
FIRTC 4	Building Construction for Fire Protection	3
FIRTC 5	Fire Behavior and Combustion	3
FIRTC 6	Principles of Fire and Emergency Services Safety and Survival	3
FIRTC 65	Firefighter I Certification Testing	1
FIRTC 66	Basic Wildland Firefighter	9
FIRTC 69	Firefighter II Academy	4.5
FIRTC 70A	Company Officer 2A-Human Resources	2
FIRTC 70B	Company Officer 2B-General Administrative Functions	1
FIRTC 70C	Company Officer 2C-Fire Inspections and Investigation	2
FIRTC 70F	Instructor 1-Instructional Methodology	2

TOTAL UNITS REQUIRED FOR DEGREE MAJOR 20-31

Students earning an AA/AS degree must complete a minimum of 18 units of General Education requirements, the multicultural graduation requirement, and the health requirement, in addition to the program units listed here. Students must complete a total of 60 degree applicable units to earn an AA or AS. Please see your counselor for additional information.

FIRE TECHNOLOGY

CERTIFICATE OF ACHIEVEMENT

The Fire Technology Certificate of Achievement program prepares students for a career in the fire service and provided educational training opportunities for employment with Career, Combination, and Volunteer agencies. In addition this program provides courses to enbable students to advance in their career and apply for promotion at the driver operator and company officer level.

The Certificate program incorporates the standardized Fire Technology curriculum identified as model curriculum through the offices of the California State Chancellor. In addition, the required courses and many electives are compliant with the National Fire Administration's Fire and Emergency Services Higher Education (FESHE) model. Many elective courses are developed under the guidelines of related fire service training and educational programs such as the California State Fire Marshal (C.F.S.T.E.S, and F.S.T.E.P.), DOT (Department of Transportation), FEMA (Federal Emergency Management Agency), and the National Fire Academy.

Students who complete this program should be able to:

1. Demonstrate technical, cognitive, and psycho-motor skills necessary to achieve and maintain employment in the fire service.
2. Demonstrate knowledge and understanding of fire service industry history, trends, operational developments, and legal implications.
3. Demonstrate respect and acceptance for differing opinions, feelings, and values of others through the development of listening skills that promote ethical and equitable application of FIRE and EMS services through classroom discussion, activities, and written assignments.
4. Communicate effectively in both oral presentation and written reports.

REQUIRED COURSES		UNITS
FIRTC 1	Fire Protection and Emergency Services	3
FIRTC 2	Fire Prevention Technology	3
FIRTC 3	Fire Protection Equipment and Systems	3
FIRTC 4	Building Construction for Fire Protection	3
FIRTC 5	Fire Behavior and Combustion	3
FIRTC 6	Principles of Fire and Emergency Services Safety and Survival	3

Complete a minimum of twelve units from the following:

FIRTC 65	Firefighter I Certification Testing	1
FIRTC 60	Title 22 Public Safety First Aid/CPR Course (21 units)	0.5
FIRTC 66	Basic Wildland Firefighter	9
FIRTC 69	Firefighter II Academy	4.5
FIRTC 70A	Company Officer 2A-Human Resources	2
FIRTC 70B	Company Officer 2B-General Administrative Functions	1
FIRTC 70C	Company Officer 2C-Fire Inspections and Investigation	2
FIRTC 70D	Company Officer 2D-All Risk Command Operations	2
FIRTC 70E	Company Officer 2E-Wildland Incident Operations	2
FIRTC 70F	Instructor 1-Instructional Methodology	2
FIRTC 74	Intermediate Wildland Fire Behavior S-290	1.5
FIRTC 75	Hazardous Materials-FRO/Decon	1
FIRTC 77	HAZMAT Incident Commander	0.5
FIRTC 84	Low Angle Rope Rescue Operations	1

TOTAL UNITS REQUIRED FOR CERTIFICATE 30

FIRE ACADEMY-FIRE FIGHTER I

CERTIFICATE OF ACHIEVEMENT

The Fire Fighter I Academy is an intensive training program which academically prepares students for entry-level jobs in the fire fighting field. The California State Fire Fighter I curriculum and Emergency Medical Technician guidelines are followed throughout the program and cover the basic skills and knowledge needed to work in the fire service field. While students who are not yet 18 years of age may enroll in the academy, they must be 18 years of age or older to complete the EMT portion of the class and successfully complete the academy. Students must also provide a physician's approval to participate in the physical training portion of the academy.

Students who successfully complete the academy may be certified by the State of California after completing either one year as a volunteer fire fighter or six months as a paid fire fighter with a California fire department. To assist graduates of the academy in obtaining the required experience at a California fire department, Yuba College also offers the Fire Technology Practicum.

Students who complete this program should be able to:

1. Analyze the elements of firefighter safety and survival; differentiate fire prevention, firefighting, and the types of fire apparatus.
2. Demonstrate the ability to analyze, appraise and evaluate fire and emergency incidents and identify components of emergency management and fire fighter safety.
3. Demonstrate knowledge and understand of the fire service industry.

REQUIRED COURSE		UNITS
FIRTC	64 Fire Fighter I Academy	26

COURSES

FIRTC-1 **3 UNITS**

Fire Protection and Emergency Services

TRANSFERABLE TO CSU
54 LECTURE HOURS

Introduction to fire protection. This course provides an overview to Fire Protection and Emergency Services ; career opportunities in fire protection and related fields; philosophy and history of fire protection, fire loss analysis; organization and function of public and private fire protection services; fire department as part of local government; laws and regulations affecting the fire service; fire service nomenclature; specific fire protection functions; basic fire chemistry and physics; introduction to fire protection systems; introduction to fire strategy and tactics. (L,C)

FIRTC-2 **3 UNITS**

Fire Prevention Technology

TRANSFERABLE TO CSU
C-ID: FIRE 110X
54 LECTURE HOURS

This course provides fundamental knowledge relating to the field of fire prevention. Topics include: history and philosophy of fire prevention; organization and operation of a fire prevention bureau; use and application of codes and standards; plans review; fire inspections; fire and life safety education; and fire investigation. (L)

FIRTC-3 **3 UNITS**

Fire Protection Equipment and Systems

TRANSFERABLE TO CSU
C-ID: FIRE 120X
54 LECTURE HOURS

Provides information relating to the features of design and operation of fire detection and alarm systems, heat and smoke control systems, special protection and sprinkler systems, water supply for fire protection and portable fire extinguishers. (L)

FIRTC-4 **3 UNITS**

Building Construction for Fire Protection

TRANSFERABLE TO CSU
54 LECTURE HOURS

This course provides the components of building construction related to firefighter and life safety. The elements of construction and design of structures are shown to be key factors when inspecting buildings, preplanning fire operations, and operating at emergencies. (L)

FIRTC-5 **3 UNITS**

Fire Behavior and Combustion

TRANSFERABLE TO CSU
C-ID: FIRE 140X
54 LECTURE HOURS

Theory and fundamentals of how and why fires start, spread, and are controlled; an in-depth study of fire chemistry and physics, fire characteristics of materials, extinguishing agents, and fire control techniques. (L,C)

FIRTC-6 **3 UNITS**

Principles of Fire and Emergency Services Safety and Survival

TRANSFERABLE TO CSU
54 LECTURE HOURS

This course introduces the basic principles and history related to the natinal firefighter life safety initiatives, focusing on the need for cultural and behavior throughout the emergency services.

FIRTC-60 **0.5 UNIT**

Title 22 Public Safety First Aid/CPR Course (21 Hour)

15 LECTURE HOURS
6 LAB HOURS

This course fulfills the California State Title 22 requirements designed to give the entry level rescuer/firefighter, peace officer and lifeguard training in First Aid, CPR for the Professional Rescuer, and AED. The course includes training in the following areas: CPR, AED, patient assessment, splinting, bleeding control, bandaging, airway management, shock treatment, medical emergencies, trauma emergencies, infectious disease control, and emergency childbirth. (L) Grades are P/NP Only.

FIRTC-63 **15 UNITS**

Fire Fighter 1 Academy without EMT 1

150 LECTURE HOURS
370 LAB HOURS

Provides student with the basic skills and knowledge to work in the fire service. The California State Firefighter I curriculum will be followed. Provides training in basic concepts including fire department organization, fire control, equipment operation, prevention, protection, hose, nozzles, and breathing apparatus. Includes physical training. (L,M,C)

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Advisory: FIRTC-1 and FIRTC-6

Entrance Requirement(s): Must be accepted to the Fire Fighter 1 Academy program. Medical clearance is required. Must be 18 years old at time of program start or have parent permission and waiver of liability If under 18 years of age.

FIRTC-64 **22 UNITS**

Fire Fighter I Academy with EMT 1

262 LECTURE HOURS
428 LAB HOURS

Provides student with the basic skills and knowledge to work in the fire service. The California State Firefighter I curriculum and emergency medical technician (EMT) guidelines will be followed. Provides training in basic concepts including fire department organization, fire control, equipment operation, prevention, protection, hose, nozzles, and breathing apparatus. Includes physical training. (L)

Advisory: FIRTC-1 and FIRTC-6

Entrance Requirement(s): Must be 18 years old at time of program start or have parent permission and waiver of liability if under 18 years of age. Physician's clearance is required.

FIRTC-65 **1 UNIT**

Firefighter I Certification Testing

4 LECTURE HOURS
48 LAB HOURS

This course is offered to students that meet the State Fire Training (SFT) requirements to test for the Firefighter I (FFI) including the capstone knowledge and skills required to pass the FFI. Upon successful completion, the student will receive a pass letter from SFT and a FFI pass certificate from the college. Grades are P/NP Only.

Prerequisite(s): FIRTC-64 or a signed statement by the agency's Fire Chief or designee stating the sponsored student has completed all SFT training requirements and skills sheets for FFI.

FIRTC-67 (REPLACES FIRCT 66 EFFECTIVE SPRING 2023) **2.5 UNITS**

Basic Wildland Firefighter (FF1C)

30 LECTURE HOURS
70 LAB HOURS

This course provides the skills and knowledge needed for the entry-level fire fighter to recognize hazards and unsafe situations; don, doff, and maintain wildland personal protective equipment; deploy a fire shelter; maintain suppression hand tools and equipment; assemble and prepare for response; construct and secure a fire line; reduce the threat of fire exposure to improved properties; and mop up and patrol a fire area when working with wildland fires. The curriculum is based on State Fire Marshal FF 1-C (Wildland) course plan, and 2012 edition NFPA 1051 Standard for Wildland Firefighter Professional Qualifications. This course is designed to provide graduates with employment opportunities with Cal Fire or other agencies that accept this level of training. Grades are P/NP Only.

Advisories: FIRTC60; FIRTC75

Entrance Requirement: Students are required to purchase uniforms and personal protective equipment.

FIRTC-69 **4.5 UNITS**

Firefighter II Academy

70 LECTURE HOURS
50 LAB HOURS

This course provides the skills and knowledge needed for the fire fighter to take on increased leadership roles and responsibilities pertaining to fire department communications, fireground operations, rescue operations, and fire and life safety initiatives, preparedness, and maintenance.

Prerequisite(s): FIRTC-64; EMT-61

FIRTC-70A **2 UNITS**

Company Officer 2A -Human Resources

C-ID: FIRE 200X
40 LECTURE HOURS

This course provides information on the use of human resources to accomplish assignments, evaluating member performance, supervising personnel, and integrating health and safety plans, policies, and procedures into daily activities as well as the emergency scene. (L,M,C)

Entrance Requirement(s): Fire Fighter II educational requirements or four (4) years as a career fire fighter or six (6) years as a volunteer fire fighter. These are State Fire Training Requirements.

FIRTC-70B` **1 UNIT**

Company Officer 2B - General Administrative Functions

C-ID: FIRE 210X
20 LECTURE HOURS

This course provides information on general administrative functions and the implementation of department policies and procedures and addresses conveying the fire department's role, image, and mission to the public. (L,M,C)

Entrance Requirement(s): Fire Fighter II educational requirements or four (4) years as a career fire fighter or six (6) years as a volunteer fire fighter. These are State Fire Training Requirements.

FIRTC-70C **2 UNITS**

Company Officer 2C - Fire Inspection and Investigation

C-ID: FIRE 220X
40 LECTURE HOURS

This course provides an overview of the information necessary to conduct inspections, identify hazards and addresses violations. Students will learn how to perform a fire investigation to determine preliminary cause and to secure the incident scene and preserve evidence. (L,M,C)

Entrance Requirement(s): Fire Fighter II educational requirements or four (4) years as a career fire fighter or six (6) years as a volunteer fire fighter. These are State Fire Training Requirements.

FIRTC-70D **2 UNITS**

Company Officer 2D - All Risk Command Operations

C-ID: FIRE 230X
40 LECTURE HOURS

This course provides information on conducting Incident size-up, developing and implementing an initial plan of action involving single and multi unit operations for various types of emergency incidents to mitigate the situation following agency safety procedures, conducting pre-Incident planning, and develop and conduct a post-incident analysis. (L,M,C)

Prerequisite(s): FIRTC-77 or HAZMAT Incident Commander course taken elsewhere.

Entrance Requirement(s): Fire Fighter II educational requirements or four (4) years as a career fire fighter or six (6) years as a volunteer fire fighter. These are State Fire Training Requirements.

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FIRTC-70E **2 UNITS**

Company Officer 2E - Wildland Incident Operations

C-ID: FIRE 240X
40 LECTURE HOURS

This course provides information on evaluating and reporting incident conditions, analyzing incident needs, developing and implementing a plan of action to deploy incident resources completing all operations to suppress a wildland fire, establishing an incident command post, creating an incident action plan, and completing incident records and reports. (L,M,C) Grades are P.NP Only

Prerequisite(s): FIRTC-74

Entrance Requirement(s): Fire Fighter II educational requirements or four (4) years as a career fire fighter or six (6) years as a volunteer fire fighter. These are State Fire Training Requirements.

FIRTC-70F **2 UNITS**

Instructor 1 - Instructional Methodology

C-ID: FIRE 250X
40 LECTURE HOURS

This course provides the skills and knowledge needed for the entry level professional instructor to perform his or her duties safely, effectively, and competently. The curriculum is based on the 2012 edition of NFPA 1041 Standard for Fire Service Instructor Professional Qualifications. At the end of this course, candidates for Instructor I certification will be able to teach and deliver instruction from a prepared lesson plan utilizing instructional aids and evaluation instruments. The Instructor I will also be able to adapt a lesson plan and complete the reporting requirements to the local jurisdiction. (L,M,C)

Entrance Requirement(s): Fire Fighter II educational requirements or four (4) years as a career fire fighter or six (6) years as a volunteer fire fighter. These are State Fire Training Requirements.

FIRTC-74 **1.5 UNITS**

Intermediate Wildland Fire Behavior S-290

32 LECTURE HOURS

Aligns with S-290 Intermediate Fire Behavior of the National Wildfire Coordinating Group (NWCG). Provides professional development related to the topic of wildland fire behavior. Provides instruction in the identification and prediction of wildland fire behavior in various fuel types and under varying weather conditions. Prepares municipal, county, state, and federal fire personnel to meet certification standards set forth by the National Inter-agency Incident Management System. (L) Grades are P/NP Only.

Entrance Requirement(s): S-190 or equivalent.

FIRTC-75 **1 UNIT**

Hazardous Materials-FRO/Decon

20 LECTURE HOURS
4 LAB HOURS

Designed primarily for First Responders who are at risk of exposure to toxic substances. Covers type, nature, and physiological effects of hazardous materials. Designed to develop new First Responder attitudes toward health and safety and to increase safe behaviors in responding to hazardous material incidents. Upon completion of the course, students will receive certification from the California Specialized Training Institute (CSTI) in FRO and FRO-Decontamination. (L,M,C) Grades are P/NP Only.

FIRTC-77 **`0.5 UNIT**

HAZMAT IC

16 LECTURE HOURS

Provides participants with the capability to assume the role of Incident Commander, as defined in the Occupational Safety and Health Act Hazardous Waste Operations and Emergency Response (OSHA HAZWOPR) regulation, during an emergency response to an actual or potential hazardous materials release. Students will receive a certificate in Hazardous Materials IC from the California Specialized Training Institute (CSTI) (L,C) Grades are P/NP Only.

Entrance Requirement(s): Students must be trained in HAZMAT First Responder Operations and have completed ICS 100.S-190 or equivalent

FIRTC-84 **1 UNIT**

Low Angle Rope Rescue Operations

12 LECTURE HOURS
12 LAB HOURS

Designed primarily for those working in the fire service, but is open to anyone. This course will equip the student with the techniques and methods for using rope, webbing, hardware friction devices, and litters in low angle rescues. Areas covered include: rope and related equipment, anchor systems, safety lines, stretcher lashing and rigging, mechanical advantage systems along with single line and two line rescue systems. Upon successful completion of the course, students will receive State Fire Marshal certification. (L) Grades are P/NP only.

FIRTC-100 **1.5 UNITS**

Driver Operator 1A

24 LECTURE HOURS
16 LAB HOURS

Provides information on fire apparatus, preventative maintenance and driving /operating. Topics include routine test, inspections, and servicing functions; operate, backing, maneuver, and turn a fire apparatus in a variety of conditions; and operate all fixed systems and equipment on a fire apparatus. Students must provide full structural personal protective equipment and fire apparatus for the final two days of class. Fulfills the requirements for a Class C Firefighter Endorsement. (L,C) Grades are P/NP Only.

Entrance Requirement(s): Must be a member of a fire department as a FT/PT or volunteer firefighter. Must have access to appropriate department fire apparatus for lab use.

FIRTC-101 **1.5 UNITS**

Driver Operator 1B

23 LECTURE HOURS
17 LAB HOURS

This course provides the knowledge and skills needed to operate and perform preventative maintenance on a pumping apparatus. Topics include routine tests, inspections, and servicing functions; producing hand, master, and foam fire streams; relay pump operations; and supplying water to fire sprinkler and standpipe systems. (L,M,C) Grades are P/NP Only

Prerequisite(s): FIRTC-100

Entrance Requirement(s): Must be a member of a fire department as a FT/PT or volunteer firefighter. Must have access to appropriate department fire apparatus for lab use.

French

COURSES

FRNCH-1 **4 UNITS**

Elementary French, Part 1

TRANSFERABLE TO CSU AND UC
72 LECTURE HOURS

Introduction to the language and culture of the French-speaking world. It includes the development of listening, speaking, reading, and writing French with an emphasis on the communicative skills, as well as the fundamentals of French grammar. This course is equivalent to one year of high school French.

FRNCH-2 **4 UNITS**

Elementary French, Part 2

TRANSERABLE TO CSU AND UC
72 LECTURE HOURS

A continuation of French 1. Provides further basic communication skills through listening, speaking, reading and writing. It includes practice at the intermediate level and review of the fundamentals of French grammar. (L)

Prerequisite(s): FRNCH-1 or One year of high school French or Placement exam: Students must score 70% or higher on a placement test administered by the Foreign Language Department

General Education

The CSU GE-Breadth Certificate of Achievement is designed for students who plan to transfer to a California State University (or California private or out of state college/university that accepts this general education pattern). The IGETC-Intersegmental General Education Transfer Curriculum Certificate of Achievement is primarily designed for students planning to transfer to a University of California but can be used for students planning to transfer to a California State University (or California private or out of state college/university that accepts this general education pattern). Students pursuing an AS-T or AA-T degree must complete the entire CSU GE-B or IGETC. These Certificates of Achievement may also be used by students who are undecided about their educational/career goals and need time to explore their options.

The General Education degree is approved by the California Community College Chancellor's Office and is designed to provide students with the opportunity to earn an Associate in Arts or Associate in Science degree in a broad area of study. Students who wish to transfer to a four-year college or university should consult with a counselor prior to beginning one of these general education majors for appropriate course selection. Note: Only one of these General Education degrees may be earned.

For the General Education Degree, complete one of the three broad areas of study listed below:

1. ARTS & HUMANITIES - Associate in Arts Degree
2. NATURAL SCIENCE - Associate in Science Degree
3. SOCIAL AND BEHAVIORAL SCIENCES - Associate in Science Degree

ARTS & HUMANITIES

ASSOCIATE IN ARTS DEGREE

This degree emphasizes the study of cultural, literary, humanistic activities and artistic expression of human beings. Students will evaluate and interpret the ways in which people through the ages in different cultures have responded to themselves and the world around them in artistic and cultural creation. Students will learn to value aesthetic understanding and incorporate these concepts when constructing value judgments.

REQUIRED COURSES		UNITS
Complete a minimum of 18 units from at least three different departments below (example: ENGL, PHIL, and THART):		
ART 1A	History of Art-I	3
ART 1B	History of Art-II	3
ART 3A	Women in Art I	3
ART 3B	Women in Art II	3
ART 5	Art Appreciation	3
ASIAN 31	Asian-American Humanities and Culture	3
ECE 39	Children's Literature	3
ENGL 1B	Critical Thinking and Writing About Literature	4
ENGL 30A	Introduction to American Literature I	3
ENGL 30B	Introduction to American Literature II	3
ENGL 31A	Creative Writing I: Introduction to the Genres	3
ENGL 31B	Creative Writing II: Writing and Editing for Publication	3
ENGL 34	Introduction to Film	3
ENGL 36	American Ethnic Voices	3
ENGL 37	Women's Voices	3
ENGL 42	Introduction to Shakespeare	3
ENGL 46A	Introduction To British Literature I	3
ENGL 46B	Introduction to British Literature II	3
FRNCH 1	Elementary French, Part 1	4
HIST 4A	Western Civilization I: From Pre-History to the 18th Century	3
HIST 4B	Western Civilization II: From 18th Century to Modern	3
HIST 5A	World Civilizations	3
HIST 5B	World Civilizations	3
HIST 7	Indians of North America	3
HIST 14	Asian-American History	3
HIST 15	Mexian-American History	3
HIST 16A	African-American History To 1865	3
HIST 16B	African-American History	3
HIST 17A	United States History	3
HIST 17B	United States History	3
HUMAN 10	Introduction to Western Humanities	3
HUMAN 11	Art, Literature and Music in Humanities	3
HUMAN 20	Introduction To World Myth	3
HUMAN 26A	Women in Art I	3
HUMAN 26B	Women in Art II	3
HUMAN 31	Asian-American Humanities & Cultures	3
MUSIC 1	Music Fundamentals	3
MUSIC 1A	Music Theory I	3
MUSIC 1B	Music Theory II	3
MUSIC 3	Music Appreciation	3
MUSIC 8A	Music History I	3
MUSIC 8B	Music History II	3
MUSIC 12	Jazz Appreciation	3
MUSIC 15	Popular Music in The United States	3
MUSIC 16	World Music	3
PHIL 1	Introduction to Philosophy	3

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PHIL 2	Ethics	3
PHIL 3	Philosophy of Religion	3
PHIL 20	World Religions	3
PHOTO 13	Introduction to Digital Photograph	3
SIGN 1	American Sign Language 1	4
SIGN 2	American Sign Language 2	4
SIGN 3	American Sign Language 3	4
SPAN 1	Elementary Spanish Part 1	4
SPAN 2	Elementary Spanish Part 2	4
SPAN 3	Intermediate Spanish Part 1	4
SPAN 4	Intermediate Spanish Part 2	4
SPAN 10	Introduction to Spanish	3
SPAN 20A	Spanish for Heritage Speakers	4
SPAN 20B	Spanish for Heritage Speakers	4
SPAN 36	Literatura Hispano-Americana	3
SPECH 2	Oral Interpretation of Literature	3
THART 10	Introduction To Theatre	3
THART 33	History of Film	3
THART 34	Introduction to Film	3

TOTAL UNITS REQUIRED FOR DEGREE MAJOR 18

Students earning an AA/AS degree must complete a minimum of 18 units of General Education requirements, the multicultural graduation requirement, and the health requirement, in addition to the program units listed here. Students must complete a total of 60 degree applicable units to earn an AA or AS. Please see your counselor for additional information.

NATURAL SCIENCE

ASSOCIATE IN SCIENCE DEGREE

This degree allows the student to take courses that will prepare them for possible majors within the fields of science, including the allied health fields, nursing preparation, health science and related fields, pre-med and more.

Students who complete this program should be able to:

1. Analyze data effectively using current technology.
2. Communicate scientific ideas and principles clearly and effectively.
3. Analyze and apply fundamental mathematical, physical, and chemical concepts and techniques to scientific issues.
4. Apply fundamental concepts and techniques.

REQUIRED COURSES **UNITS**

Complete a minimum of 18 units from at least three different departments below (example: ASTRO, GEOL, and STAT). At least one course must be Mathematics or Statistics.

ANTHR 1	Introduction to Physical Anthropology	3
ASTRO 1	Introduction To Astronomy	3
BIOL 1	Principles of Biology	5
BIOL 2	General Zoology	4
BIOL 3	General Botany	4
BIOL 4	Human Anatomy	4
BIOL 5	Human Physiology	4
BIOL 6	Microbiology	4
BIOL 10	General Biology	3
BIOL 10L	General Biology	4
BIOL 11	General Biology Laboratory	1
BIOL 15	Bioscience	4
BIOL 25	Human Genetics	3
CHEM 1A	General Chemistry	5
CHEM 1B	General Chemistry	5
CHEM 2A	Introductory Chemistry I	5
CHEM 2B	Introductory Chemistry II	4
CHEM 10	Concepts of Chemistry	3
ECOL 10	Environment-Concepts and Issues	3
ECOL 11	Enviornment Lab	1
ECOL 12	Marine Ecology	3
GEOG 1	Physical Geography	3
GEOL 8	Earth Science	3
GEOL 10L	Physical Geology	4
GEOL 11L	Historical Geology	4
MATH 1A	Single Variable Calculus-Early Transcendentals	4
MATH 1B	Sincle Variable Calculus-Early Transcendentals	4
MATH 9	Calculus for Business, Social and Life Sciences	4
MATH 10	Liberal Arts Mathematics	3
MATH 15	Concepts and Structures of Mathematics	3
MATH 16	Concepts and Structures of Mathematics	3
MATH 21	Plane Trigonometry	4
MATH 25	Finite Mathematics	4
PHYS 2A	General Physics I	3
PHYS 2B	General Physics II	3
PHYS 3A	General Physics Laboratory I	1
PHYS 3B	General Physics Laboratory II	1
PHYS 4A	Mechanics	4
PHYS 4B	Electomagnetism	4
PHYSC 10B	Physical Science-Physics & Chemistry	3
PHYSC 10C	Physical Science-Physics and Chemistry Lab	1
PLSCI 20	Principles of Plant Science	3
PLSCI 20A	Principles of Plant Science Lab	1
PLSCI 22	Introduction To Soils	3
PLSCI 22A	Introduction To Soils Lab	1
STAT 1	Introduction To Statistical Methods	4

TOTAL UNITS REQUIRED FOR MAJOR DEGREE 18

Students earning an AA/AS degree must complete a minimum of 18 units of General Education requirements, the multicultural graduation requirement, and the health requirement, in addition to the program units listed here. Students must complete a total of 60 degree applicable units to earn an AA or AS. Please see your counselor for additional information.

SOCIAL AND BEHAVIORAL SCIENCES

ASSOCIATE IN SCIENCE DEGREE

This degree emphasizes the perspective, concepts, theories and methodologies of the disciplines typically found in the vast variety of disciplines that comprise study in the Social and Behavioral Sciences. Students will study about themselves and as members of a larger society. Topics and discussion to stimulate critical thinking about ways people have acted in response to their societies will allow students to evaluate how societies and social subgroups operate.

Students who complete this program should be able to:

1. Employ concepts and research methodologies from a variety of social and behavioral science disciplines.
2. Demonstrate understanding of how the self is shaped by membership in modern society.
3. Demonstrate understanding of and ability to delineate how different social subgroups have responded to their societies under different historical and cultural conditions.

REQUIRED COURSES **UNITS**

Complete a minimum of 18 units from at least three different departments below (example: ECON, PSYCH, and SOCIL):

AJ 10	Introduction to Criminal Justice System	3
ANTHR 2	Cultural Anthropoly	3
ANTHR 3	Introduction to Archeoplogy	3
ECE 3	Child Growth and Development	3
ECE 31	Child, Family, Community	3
ECON 1A	Elementary Economics-Macro	3
ECON 1B	Elementary Economics-Micro	3
ETHN 1	Introduction to Chicana and Chicano Studies	3
HIST 4A	Western Civilizations I: From Pre-History to the 18th Century	3
HIST 4B	Western Civiliations II: From 18th Century to Modern	3
HIST 5A	World Civilizations	3

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HIST 5B	World Civilizations	3
HIST 7	Indians of North America	3
HIST 14	Asian American History	3
HIST 15	Mexican-American History	3
HIST 16A	African-American History To 1865	3
HIST 16B	African-American History Since 1865	3
HIST 17A	United States History	3
HIST 17B	Untied States History	3
MCOMM 2	Introduction to Electronic Media	3
POLSC 1	Introduction to American Government	3
PSYCH 1A	General Psychology	3
PSYCH 12	Human Sexuality and Sexual Behavior	3
PSYCH 22	Social Psychology	3
PSYCH 33	Personal and Social Adjustment	3
PSYCH 41	Lifespan Development	3
PSYCH 46	Abnormal Psychology	3
SOCIL 1	Introduction to Sociology	3
SOCIL 2	Social Problems	3
SOCIL 5	Sociology of Race and Ethnicity	3
SOCIL 10	Sociology of Marriage and Family	3
SOCIL 30	Sociology of Aging	3
SPECH 8	Intercultural Communication	3

TOTAL UNITS REQUIRED FOR DEGREE MAJOR 18

Students earning an AA/AS degree must complete a minimum of 18 units of General Education requirements, the multicultural graduation requirement, and the health requirement, in addition to the program units listed here. Students must complete a total of 60 degree applicable units to earn an AA or AS. Please see your counselor for additional information.

CSU GE-BREADTH

CERTIFICATE OF ACHIEVEMENT

This Certificate of Achievement is designed for students planning to transfer to a California State University (CSU) campus. Completion ensures that the student has met the lower division general education-breadth requirements (CSU GE-B) for all CSU campuses as well as the lower division general education of some California private and out-of-state colleges and universities. In addition, students pursuing an AS-T or AA-T degree must complete the entire CSU GE-B pattern for a minimum total of 39 units (or IGETC for a minimum total of 37 units).

A minimum of 39 total units is required with a specified number of units in each area. Courses may be listed in more than one area, but shall not be counted in more than one area, unless otherwise noted. A grade of "C-" or higher (or "P" Pass) is required for A1, A2, A3, and B4 courses. A minimum total of 30 units of general education must be completed with "C" grades or better for CSU admission.

Each year courses are added and removed from the list of approved courses for this program. For courses to count for this certificate, the course must be on the approved list at the time it is completed. These changes are listed in the Yuba College catalog, on the Counseling Department CSU GE-B advising sheets, and on the ASSIST.org site. Students are advised to consult a counselor to ensure that they are enrolled in courses that will satisfy these requirements. Students considering applying to a UC campus should NOT use CSU GE-B for general education.

At this time, this Certificate of Achievement will not replace the CSU GE-B Certification document. Certification of CSU GE-B is a separate process initiated at the Admissions and Records Office and is usually completed at the same time students request final, official transcripts to be sent to the CSU campus to which the student has been accepted and plans to attend.

Students who complete this program should be able to:

1. Demonstrate effective expository and persuasive writing skills.
2. Demonstrate global awareness with an understanding of cultural pluralism.
3. Evaluate the methods of inquiry and evidence used in the behavioral and social sciences.
4. Evaluate ideas about the natural universe using testable methodology.

For courses that satisfy the Areas listed below, see the CSU GE-B pattern on page 43, www.assist.org, or meet with a counselor.

REQUIRED COURSES	UNITS
AREA A: English Language Communication and Critical Thinking (9 units minimum; one course required in each area below:)	
Area A1: Oral Communication	3
Area A2: Written Communication	3
Area A3: Critical Thinking	3
AREA B: Scientific Inquiry and Quantitative Reasoning (9 units minimum; one course required in each area below)	
Area B1: Physical Science	3
Area B2: Life Science	3
Area B3: Laboratory Activity	0-1
Area B4: Mathematics/Quantitative Reaonsoning	3
Area C: Arts and Humanities (9 units minimum; one course required in each area below:)	
Area C1: Arts	3
Area C2: Humanities	3
Area C1: Arts or C2: Humanites	3
Area D: Social Sciences (6 units minimum; one course required in each area below:)	
Area D: Social Science	3
Area D: Social Science	3
Area E: Lifelong Learning and Self Development (3 units minimum; one course required from the area below:)	
Area E: Lifelong Learning and Self Development	3
Area F: Ethnic Studies (3 units minimum; one course required from the area below:)	
Area F: Ethnic Studies	3
TOTAL UNITS REQUIRED FOR CERTIFICATE	**39**

IGETC - INTERSEGMENTAL GENERAL EDUCATION TRANSFER CURRICULUM

CERTIFICATE OF ACHIEVEMENT

This Certificate of Achievement is designed primarily for students planning to transfer to a University of California (UC) campus. It would also work for students planning to transfer to a California State University (CSU) campus, many California private and some out-of-state colleges and universities. Completion ensures that the student has met the lower division general education for all UC and CSU campuses as well as the lower division general education of some California private and out-of-state colleges and universities. In addition, students pursuing an AS-T or AA-T degree may complete the entire general education pattern for the degree by completing the CSU version of the IGETC for a minimum total of 37 units.

A minimum of 34 total units is required with a specified number of units in each area for students following the UC version. (Students who have not met the Language Other Than English requirement will need additional units.) A minimum of 37 units is required with a specified number of units in each area for students following the CSU version. Courses may be listed in more than one area, but shall not be counted in more than one area, unless otherwise noted.

Each year courses are added and removed from the list of approved courses for this program. For courses to count for this certificate, the course must be on the approved list at the time it is completed. These changes are listed in the Yuba College catalog, on the Counseling Department IGETC advising sheets, and on the ASSIST.org site.

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Students are advised to consult a counselor to ensure that they are enrolled in courses that will satisfy these requirements.

At this time, this Certificate of Achievement will not replace the IGETC Certification document. Certification of IGETC is a separate process initiated at the Admissions and Records Office and is usually completed at the same time students request final, official transcripts to be sent to the UC, CSU, California private, or out-of-state college or university to which the student has been accepted and plans to attend. IGETC certification requires all classes to be completed with a "C" or better grade.

Students who complete this program should be able to:

1. Demonstrate effective expository and persuasive writing skills.
2. Demonstrate effective mathematical computation and quantitative reasoning skills.
3. Evaluate ideas about the natural universe using testable methodology.
4. Demonstrate global awareness with an understanding of cultural pluralism.
5. Evaluate methods of inquiry and evidence used in the behavioral sciences.

TOTAL UNITS REQUIRED FOR CERTIFICATE 34-37

For required courses, see the IGETC Pattern on page 47 or meet with a counselor.

Geography

COURSES

GEOG-1 **3 UNITS**

Physical Geography

TRANSFERABLE TO CSU AND UC
C-ID: GEOG 110
54 LECTURE HOURS

A spatial study of Earth's dynamic physical systems and processes. Topics include maps, earth-sun relations, weather, climate, water, landforms, soils, and the biosphere. Emphasis is on interrelationships among systems and processes and their resulting patterns and distributions. (L)

GEOG-5 **3 UNITS**

World Regional Geography

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

Survey of the world's culture regions and nations as interpreted by geographers, including physical, cultural, and economic features. Emphasis on spatial and historical influences on population growth, transportation networks, and natural environments. Identification and importance of the significant features of regions.

Geology

GEOLOGY

ASSOCIATE IN SCIENCE FOR TRANSFER

Geology is an interdisciplinary science that combines geological observations and concepts with those of physics, chemistry, biology and mathematics in order to study the earth, its physical environments, and its history. By studying rocks, fossils, and minerals, and by learning to read and interpret maps, geologists seek to understand those geologic principles and processes that shape the earth and its environments.

Associates in Science in Geology for Transfer requirements (as stated in SB1440 law) requires students to complete the following:

1. Completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:

   a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education Breadth Requirements.

   b. Minimum of 18 semester units in a major or area of emphasis, as determined by the community college district.
2. Obtainment of a minimum grade point average of 2.0.
3. Students must earn a "C" grade or better in all courses required for the major or area of emphasis.

Students who complete this program should be able to:

1. Identify basic rock types and describe the formation environment.
2. Describe the geologic time scale and significant earth events that define eras, periods, and epochs.
3. Describe the unique tectonic evolution of California and its major geologic provinces.

REQUIRED COURSES		UNITS
GEOL 10L	Physcial Geology	4
GEOL 11L	Historical Geology	4
CHEM 1A	General Chemistry	5
CHEM 1B	General Chemistry	5
MATH 1A	Single Variable Calculus 1 - Early Transcendentals	4
MATH 1B	Single Variable Calculus II - Early Transcendentals	4

TOTAL UNITS REQUIRED FOR DEGREE MAJOR 26

Students earning an AA-T/AS-T degree must complete 60 semester units of coursework eligible for transfer to the CSU including the CSU GE-B or IGETC (CSU version), all courses in the major with "C" or better or "P" (Pass) grades, and achieve a minimum transferable cumulative GPA of 2.0.

COURSES

GEOL-8 **3 UNITS**

Earth Science

TRANSFERABLE TO CSU AND UC
C-ID: GEOL 120
54 LECTURE HOURS

Survey course with topics chosen principally from oceanography, geology, physical geography, meteorology, and astronomy. Topics are presented within a theme of understanding the earth. (L)

GEOL-8L **1 UNIT**

Earth Science Laboratory

TRANSFERABLE TO CSU AND UC
54 LAB HOURS

Laboratory activities in Earth Science to reinforce and complement the materials presented in GEOL 8.

Co-requisite: GEOL-8

Limitations on Enrollment: Course not open for credit to students with credit in PHYSC 10AL

GEOL-10L **4 UNITS**

Physical Geology

TRANSFERABLE TO CSU AND UC
C-ID: GEOL 101
54 LECTURE HOURS
54 LAB HOURS

Physical geology introduces the processes that are at work changing the Earth today. Covers rocks and minerals, volcanoes, earthquakes and plate tectonics. It also examines how water and wind shape the Earth's surface. (L,C)

Limitations on Enrollment: Course not open for credit to students with credit in GEOL-10

GEOL-11L **4 UNITS**

Historical Geology

TRANSFERABLE TO CSU AND UC
C-ID: GEOL 111
54 LECTURE HOURS
54 LAB HOURS

Historical Geology is the study of the evolution of life and landforms through geologic time through the examination of the rock record. in this course one will learn how the study of fossils, rocks, tectonic processes, and geologic structures can provide us with information regarding Earth's geologic and biologic history. (L)

GEOL-12 **3 UNITS**

Oceanography

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

General introduction to the basic principles of oceanography, including the study of geological, physical, and chemical oceanography. Topics will include the origin of Earth and the oceans, plate tectonics, marine provinces, sediment, seawater composition and geochemical distributions, surficial and deep-water oceanic circulation, waves, tides, coastal erosion and deposition, marine ecosystems and human's effects on the oceans. (L)

GEOL-20 **3 UNITS**

Geology of California

TRANSFERABLE TO CSU AND UC
C-ID: GEOL 200
54 LECTURE HOURS

General introduction to the geological sciences with emphasis on the geology of California. Topics covered will include the tectonic provinces, landforms, natural resources, geologic history, natural hazards, and related geologic environmental problems in the state. (L)

GEOL-40 **V1-2 UNITS**

Regional Geology - Sierra Nevada

TRANSFERABLE TO CSU
16.2 LECTURE HOURS AND 5.4 LAB HOURS (1 UNIT)
32.4 LECTURE HOURS AND 10.8 LAB HOURS (2 UNITS)

This field course focuses on the geology of the Sierra Nevada, with an emphasis on the tectonic and erosional history of the area. The course includes study of the various intrusive rocks and the minerals they contain, as well as the relative ages of the plutons. Glacial erosional and depositional processes will be discussed.

GEOL-42 **V1-3 UNITS**

Regional Geology - California Volcanoes

TRANSFERABLE TO CSU
12 LECTURE HOURS AND 12 ACTIVITY HOURS (1 UNIT)
24 LECTURE HOURS AND 24 ACTIVITY HOURS (2 UNITS)
36 LECTURE HOURS AND 36 ACTIVITY HOURS (3 UNITS)

This field course provides an opportunity to explore a specific site of volcanic interest in California. The course will explore the tectonic setting, the rock cycle, weather and erosion, and topics secific to volcanoes. Trip location will vary depending on season and accessibility. Varying amounts of hiking will be required depending on the location. Students are responsible for the costs of meals, transportation, and camping or lodging.

GEOL-43 **V1-3 UNITS**

Regional Geology - California Coasts

TRANSFERABLE TO CSU
16.2 LECTURE HOURS AND 5.4 LAB HOURS (1 UNIT)
32.4 LECTURE HOURS AND 10.8 LAB HOURS (2 UNITS)
48.6 LECTURE HOURS AND 16.2 LAB HOURS (3 UNITS)

This field course provides an opportunity to explore a specific area of coastal interest in California. The course will explore the tectonic setting, the rock cycle, weather and erosion, and topics specific to coastlines. Trip location will vary depending on season and accessibility. Varying amounts of hiking will be required depending on the location. Students are responsible for the costs of meals, transportation, and camping or lodging.

GEOL-44 **V1-3 UNITS**

Regional Geology - California Deserts

TRANSFERABLE TO CSU
16.2 LECTURE HOURS AND 5.4 LAB HOURS (1 UNIT)
32.4 LECTURE HOURS AND 10.8 LAB HOURS (2 UNITS)
48.6 LECTURE HOURS AND 16.2 LAB HOURS (3 UNITS)

This course will explore one or multiple desert locations specific to California. Content will focus on specific features of geologic interest, and will include geographic features. Historical climates will also be considered as well as human impact and preservation.

GEOL-45 **V1-3 UNITS**

Regional Geology - Field Trip

TRANSFERABLE TO CSU
16.2 LECTURE HOURS AND 5.4 LAB HOURS (1 UNIT)
32.4 LECTURE HOURS AND 10.8 LAB HOURS (2 UNITS)
48.6 LECTURE HOURS AND 16.2 LAB HOURS (3 UNITS)

This field course provides an opportunity to explore specific areas of geologic interest. Tectonic setting, sedimentary processes and rock formation will be emphasized. Trip location will vary depending on season and accessibility.

Health Education

HLTH-1 **3 UNITS**

Health and Life Style Choices

TRANSFERABLE TO CSU AND UC - UC UNIT LIMIT
54 LECTURE HOURS

This course focuses on health and wellness concepts important in making informed choices about one's physical, mental, and emotional well-being. A personal approach to health and wellness will be explored through self-assessment and practical application to every day life. Topics such as fitness, obesity, weight management, nutrition, stress, substance use and abuse, prevention of diseases, sexual health, relationships, mental health, cardiovascular disease, cancer, and healthy aging will be discussed.

HLTH-2 **1 UNIT**

First Aid/ Cardiopulmonary Resuscitation

TRANSFERABLE TO CSU
18 LECTURE HOURS

Learn the skills needed for standard First Aid and Cardiopulmonary Resuscitation/AED. This course is highly recommended for volunteer coaches, parents, child care givers and individuals who are interested in helping save lives. Upon successful completion of the course, students may receive a Red Cross certification card. Students will have an additional fee to recieve the American Red Cross CPR card.

HLTH-3 **3 UNITS**

First Aid & CPR for Kinesiology Majors

TRANSFERABLE TO CSU AND UC
C-ID: KIN 101
54 LECTURE HOURS

This course involves the theory and detailed demonstration of the first aid care of the injured. The student will learn to assess a victim's condition and incorporate proper treatment. Standard first aid, CPR, and AED certification(s) will be granted upon successful completion of requirements. Grades are P/NP Option.

HLTH-4 **3 UNITS**

Psychosocial Health

TRANSFERABLE TO CSU AND UC - UC UNIT LIMIT
54 LECTURE HOURS

Explores how attitudes and emotions affect physical health along with emotional health, and how psychosocial health can play a role in prevention of disease. This class presents current research on the link between the mind and the body. (L)

HLTH-5 **3 UNITS**

Sport Psychology

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

Provides a concentrated study of human behavior in the context of participating in sport and how behavior (performance) is affected by other sources. Includes study about motivation, the brain's impact on performance, stress, goal setting, sport imagery and current research into sport performance.

HLTH-6 **3 UNITS**

Aging and Health

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

Designed to introduce students to the basic aging and health concerns of older people and to broader issues of aging, health and society. Examines the: demography of the aging population, biological theories of aging, social and psychological aspects of aging, and the aging of the body's major physiological systems. Grades are P/NP Option.

HLTH-10 **3 UNITS**

Principles of Nutrition

TRANSERABLE TO CSU AND UC
C-ID: NUTR 110
54 LECTURE HOURS

In-depth study of nutrients and their functions, chemical composition of foods and their utilization in the body. Course topics such as weight loss, sports nutrition, food safety, the diet-disease relationship, global nutrition, and individual's nutritional needs throughout the life cycle are emphasized. Course includes assessment of the student's own nutritional health.

HLTH-13 **3 UNITS**

Nutrition and Life Fitness

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

The analysis and evaluation of current practices and theories regarding nutrition and exercise and their relationship to weight control and physical fitness. Individualized exercise prescription and nutritional analysis will be completed by each student. (L).

History

HISTORY

ASSOCIATE IN ARTS FOR TRANSFER

The Associate in Arts in History for Transfer degree provides students with the opportunity to complete the freshman/sophomore level classes needed for a Bachelors degree in History within the California State University System. Upon completion of the Associate in Arts in History for Transfer degree, students will be able to use knowledge of the past and accumulated analytical and critical thinking skills to gain perspective on current social, political, and economic dynamics and apply any conclusions about the past and present to the process of creating better local, national, and global societies.

History is a study of the past. The past not only defines our lives, society, and the world we live in today, but shapes the pathway to the future. Students of history study individuals, groups, communities, nations, people, and cultures from different times and places. Many different methods are applied to effectively learn about history. History students examine the past through different perspectives and apply various analytical techniques to raise questions and think critically about the past. In addition to learning about amazing events, history provides us with a better understanding of our present lives.

The Associate in Arts in History for Transfer requirements (as stated in SB 1440) requires students to also complete the following:

- Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University.

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- The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth Requirements.
- Obtainment of a minimum grade point average of 2.0.
- Earn a grade of "C" grade or better in all courses required for the major or area of emphasis.
- A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.

Students who complete this program should be able to:

1. Analyze evidence of key turning points in history.
2. Examine the experiences of people upon global development.
3. Recognize the impact of historical events on contemporary issues.

REQUIRED COURSES		UNITS
Required Courses (6 units)		
HIST 17A	United States History	3
HIST 17B	United States History	3
List A: Complete two courses from the following:		
HIST 4A	Western Civilization ***OR***	3
HIST 5A	World Civilizations	3
HIST 4B	Western Civilization ***OR***	3
HIST 5B	World Civilizations	3
List B: Complete one course from Group 1 and one course from Group 2		
Group 1: Complete one course from the following or HIST 5A or HIST 5B if not already used in List A:		
HIST 5A	World Civilizations (if not already used)	3
HIST 5B	World Civilizations (if not already used)	3
HIST 7	Indians of North America	3
HIST 14	Asian-American History	3
HIST 15	Mexican-American History	3
HIST 16A	African-American History To 1865	3
HIST 16B	African-American History	3
HIST 29	Women in American History	3
Group 2: Complete one course from the following or HIST 4A, HIST 4B, HIST 5A, or HIST 5B if not already used:		
ANTHR 2	Cultural Anthropology	3
ASIAN 31	Asian-American Humanities and Cultures	3
ECON 1A	Elementary Economics-Macro	3
ECON 1B	Elementary Economics-Micro	3
HIST 4A	Western Civilization (if not already used)	3
HIST 4B	Western Civilization (if not already used)	3
HIST 5A	World Civilizations (if not already used)	3
HIST 5B	World Civilizations (if not already used)	3
HUMAN 10	Introduction To Western Humanities	3
HUMAN 11	Art, Literature and Music in Humanities	3
POLSC 1	Introduction to American Government	3
POLSC 2	Comparative Politics	3
SOCIL 1	Introduction to Sociology	3
SOCIL 5	Sociology of Race and Ethnicity	3
HUMAN 31	Asian-American Humanities & Cultures	3
TOTAL UNITS REQUIRED FOR DEGREE MAJOR		**18**

Students earning an AA-T/AS-T degree must complete 60 semester units of coursework eligible for transfer to the CSU including the CSU GE-B or IGETC (CSU version), all courses in the major with "C" or better or "P" (pass) grades, and achieve a minimum transferable cumulative GPA of 2.0.

HISTORY

ASSOCIATE IN ARTS

Upon completion of the Associate in Arts in History, students will be able to use knowledge of the past and accumulated analytical and critical thinking skills to gain perspective on current social, political, and economic dynamics and apply any conclusions about the past and present to the process of creating better local, national, and global societies.

History is a study of the past. The past not only defines our lives, society, and the world we live in today, but shapes the pathway to the future. Students of history study individuals, groups, communities, nations, people, and cultures from different times and places. Many different methods are applied to effectively learn about history. History students examine the past through different perspectives and apply various analytical techniques to raise questions and think critically about the past. In addition to learning about amazing events, history provides us with a better understanding of our present lives.

The Associate in Arts in History requires students to also complete the following:

- Completion of 60 semester units or 90 quarter units.
- Obtainment of a minimum grade point average of 2.0.
- Earn a grade of "C" or better in all courses required for the major or area of emphasis.
- A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.

Students who complete this program should be able to:

1. Demonstrate a breadth and depth of historical knowledge including but not limited to analysis of historical evidence to evaluate the causes and effects of key turning points in the human experience.
2. Examine the experiences of various people throughout time and space and their significance to global development.
3. Demonstrate an understanding of the ways in which modern day people are profoundly impacted by historical events and how an appreciation of the past should inform how we approach contemporary issues.

REQUIRED COURSES		UNITS
Required Courses (6 units)		
HIST 17A	United States History	3
HIST 17B	United States History	3
List A: Complete two courses from the combination of HIST 4A and HIST 4B or the combination of HIST 5A and HIST 5B:		
HIST 4A	Western Civilization ***AND***	3
HIST 4B	Western Civilization	3
OR		
HIST 5A	World Civilizations ***AND***	3
HIST 5B	World Civilizations	3
List B: Complete two courses from the following or HIST 5A or HIST 5B if not used above:		
HIST 5A	World Civilizations (if not already used) ***OR***	3
HIST 5B	World Civilizations (if not already used)	3
HIST 7	Indians of North America	3
HIST 14	Asian-American History	3
HIST 15	Mexican-American History	3
HIST 16A	African-American History To 1865	3
HIST 16B	African-American History	3
HIST 29	Women in American History	3
ECON 1A	Elementary Economics-Macro	3
ECON 1B	Elementary Economics-Micro	3
HUMAN 10	Introduction To Western Humanities	3

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POLSC 1	Introduction to American Government	3
SOCIL 1	Introduction to Sociology	3
SOCIL 5	Sociology of Race and Ethnicity	3

TOTAL UNITS REQUIRED FOR DEGREE MAJOR 18

Students earning an AA/AS degree must complete a minimum of 18 units of General Education requirements, the multicultural graduation requirement, and the health requirement, in addition to the program units listed here. Students must complete a total of 60 degree applicable units to earn an AA or AS. Please see your counselor for additional information.

COURSES

HIST-4A **3 UNITS**

Western Civilizations I: From Pre-History to the 18th Century

TRANSFERABLE TO CSU AND UC
C-ID: HIST 170
54 LECTURE HOURS

Broad historical study of the major elements of the western tradition from earliest times to the Eighteenth century. Introduction of ideas, values, and institutions basic to Western civilizations. (L) Grades are P/NP Option.

HIST-4B **3 UNITS**

Western Civilizations II: From 18th Century to Modern

TRANSFERABLE TO CSU AND UC
C-ID: HIST 180
54 LECTURE HOURS

Historical study of the major elements of the western experience for the Eighteenth century to the present. Includes major political and social developments that have revolutionized the modern mode of human existence. (L) Grades are P/NP Option.

HIST-5A **3 UNITS**

World Civilizations

TRANSFERABLE TO CSU AND UC
C-ID: HIST 150
54 LECTURE HOURS

Survey of the experience of all peoples with vastly different cultures inhabiting a single globe. Emphasizes the emergence of human communities, formation of complex societies, development of major belief systems and interaction with the environment based on experience, knowledge, and technology to c. 1500. (L)

HIST-5B **3 UNITS**

World Civilizations

TRANSFERABLE TO CSU AND UC
C-ID: HIST 160
54 LECTURE HOURS

This course covers the experiences of all the world's people from the early modern era to the present. Emphasis is upon the interaction of people with the environment based upon the development of technology and conflicts between traditional systems and new(er) orders. (L)

HIST-7 **3 UNITS**

Indians of North America

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

Survey history of Indians of the United States and Canada from pre-Columbian societies through European conquest to the modern day. (L)

HIST-14 **3 UNITS**

Asian-American History

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

Chronological study of Asian-Americans from the early immigrants to recent arrivals. Emphasis on Chinese, Kanaka, East Indian, Japanese, Korean, Filipino-Americans and the boat people (Cambodians, Laotians and Vietnamese). (L)

Limitations on Enrollment: Course not open for credit to students with credit in ASIAN-14.

HIST-15 **3 UNITS**

Mexican-American History

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

Historical development of Mexican Americans from Mexican origin, settlement in the United States, to the present time. Emphasis is given to the pre-Columbian setting, the indigenous heritage, European conquest and legacy, distinctive colonial institutions, and the growth of independence movements in the United States and Mexico. Major political, social, economic, and cultural factors will be presented, focusing on the roles played by diverse peoples and cultures who share in the development of the United States and Mexico. Satisfies CSU Title 5, Section 40404, U.S. History, Constitution, and American Ideals requirement when both HIST 15 and POLSCI 1 are completed. (L)

Limitations on Enrollment: Course not open for credit to students with credit in ETHN-15 or LARAZ-15

HIST-16A **3 UNITS**

African-American History To 1865

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

Survey of African-American history from pre-colonial period to the Civil War. (L)

HIST-16B **3 UNITS**

African-American History

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

Survey of African-American history from Civil War to the present. (L)

Limitations on Enrollment: Not open for credit to student with credit in African-American 16B (Ethnic Studies).

HIST-17A **3 UNITS**

United States History

TRANSFERABLE TO CSU AND UC
C-ID: HIST 130
54 LECTURE HOURS

Survey of U.S. history tracing the political, social, economic, and cultural development of American ideals and actions from the Pre-Revolutionary Period through the Civil War and Reconstruction Eras. Satisfies CSU Title V, Section 40404, U.S. History, Constitution, and American Ideals requirement when both HIST 17A and POLSC 1 are completed. (L)

HIST-17B **3 UNITS**

United States History

TRANSFERABLE TO CSU AND UC
C-ID: HIST 140
54 LECTURE HOURS

Political, social, economic, and cultural history of the United States from the Industrial Revolution to the present. Focuses on the ideals,

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decisions, forces, institutions, individuals, events, and processes that affected the continuity and change during this time. Satisfies CSU Title V, Section 40404, U.S. History, Constitution, and American Ideals requirement when both HIST 17B and POLSC 1 are completed. (L)

HIST-29 **3 UNITS**

Women in American History

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

General introduction to the history of women in America from colonial times to the present. Emphasis on the changing political, economic, social and ethnic history. (L)

Limitations on Enrollment: Course not open for credit to students with credit in WOMAN 29.

Human Services

CHEMICAL DEPENDENCY COUNSELOR

ASSOCIATE IN SCIENCE

The Chemical Dependency Counseling program develops and strengthens specific skills and abilities needed to provide comprehensive chemical dependency treatment. Course work addresses a wide-range of issues and ethics in chemical dependency treatment, including the twelve counselor core functions: screening, intake, assessment, client orientation, treatment planning, counseling, case management, crisis intervention, client education, referral, report and record keeping, and consultation with other professionals. Chemical Dependency Counselors support individuals with addressing and maintaining sobriety. The Chemical Dependency Counseling Associate degree exceeds the minimum standards for entry into certification as a Certified Addictions Treatment Counselor II (CATC II), established by the federal Substance Abuse and Mental Health Services Administration, and certification agencies in the State of California and includes a 260 hour supervised internship. Degree completers will qualify to apply for certification as a CATC II through state-approved certification boards.

Completion of the Associate of Science degree will assist students in obtaining multiple career opportunities including but not limited to, Behavioral Health and Chemical Dependence Case Manager, Behavioral Health Counselor, Chemical Dependency Counselor and Treatment Facilities Counselor.

Students who complete this program should be able to:

1. Demonstrate skills and abilities and appropriately apply knowledge to chemical dependency counseling settings and situations.
2. Acquire sufficient hours of experience in the twelve core counseling functions as required by California certification agencies in the context of a field work placement.
3. Demonstrate communication skills (verbal, non-verbal, and written) the ensure that they can work effectively with clients and other professionals in diverse communities.
4. Understand and demonstrate ethical behavior in a variety of challenging and diverse environments and situations.
5. Display an appreciation and respect for people from diverse backgrounds, including, but not limited to, cultural elements, gender, race/ethnicity, sexual orientation/identification, religion, ability/disability, and socio-economic status.

REQUIRED COURSES		UNITS
HUSEV 11	Working with Diverse Communities	3
HUSEV 20	Introduction to Chemical Dependency Studies	3
HUSEV 21	Introduction to Physiological and Psychological Effects of Drug Abuse	3
HUSEV 22	Development and Progression of Addictive Patterns of Behavior	3
HUSEV 23	Legal and Ethical Aspects of Human Services.	3
HUSEV 24	Introduction to Case Management	3
HUSEV 25	Basic Chemical Dependency Counseling	3
HUSEV 28	Skills and Techniques of Group Counseling	3
HUSEV 40	Family and Addiction	3
HUSEV 41	Co-Occurring Disorders	3
HUSEV 44	Chemical Dependency Internship Seminar	2.5
HUSEV 45	Supervised Chemical Dependency Internship	3.5-4.5
TOTAL UNITS REQUIRED FOR DEGREE MAJOR		**36-37**

Students earning an AA/AS degree must complete a minimum of 18 units of General Education requirements, the multicultural graduation requirement, and the health requirement, in addition to the program units listed here. Students must complete a total of 60 degree applicable units to earn an AA or AS. Please see your counselor for additional information

CHEMICAL DEPENDENCY COUNSELOR

CERTIFICATE OF ACHIEVEMENT

The Chemical Dependency Counseling Certificate develops and strengthens specific skills and abilities needed to provide comprehensive chemical dependency treatment. Course work addresses a wide-range of issues and ethics in chemical dependency treatment, including the twelve counselor core functions: screening, intake, assessment, client orientation, treatment planning, counseling, case management, crisis intervention, client education, referral, report and record keeping, and consultation with other professionals. The Chemical Dependency Counseling program exceeds the minimum standards for entry into certification for the Basic Certified Addictions Treatment Counselor (CATC), and CATC 1 certification process, established by the federal Substance Abuse and Mental Health Services Administration, and certification agencies in the State of California and includes a 260 supervised practicum. Certificate completers will qualify to apply for certification through state-approved certification boards. Completion of the Certificate will assist students in obtaining entry-level employment toward CATC Basic and CATC 1 certification, and increase promotional opportunities for employees of chemical dependency treatment programs.

Students who complete this program should be able to:

1. Summarize the process of certification required for entry level employment as Addiction Treatment Counselors, and the career ladder opportunities open to them with further education.
2. Acquire sufficient hours of experience in the twelve core counseling functions as required by California certification agencies in the context of a field work placement.
3. Demonstrate communication skills (verbal, non-verbal, and written) the ensure that they can work effectively with clients and other professionals in diverse communities.
4. Illustrate respect and inclusivity with people form diverse backgrounds and communities, including, but not limited to, cultural elements, gender, race and ethnicity, sexual orientation/identification, religion, ability/disability, and socio-economic.
5. Explain and demonstrate ethical behavior in a variety of challenging and diverse environments and situations.
6. Demonstrate skills and abilities and appropriately apply knowledge to chemical dependency counseling settings and situations.

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REQUIRED COURSES		UNITS
HUSEV 11	Working with Diverse Communities	3
HUSEV 20	Introduction to Chemical Dependency Studies	3
HUSEV 21	Introduction to Physiological and Psychological Effects of Drug Abuse	3
HUEV 22	Development and Progression of Addictive Patterns of Behavior	3
HUSEV 23	Legal and Ethical Aspects of Human Services.	3
HUSEV 24	Introduction to Case Management	3
HUSEV 25	Basic Chemical Dependency Counseling	3
HUSEV 28	Skills and Techniques of Group Counseling	3
HUSEV 44	Chemical Dependency Internship Seminar	2.5
HUSEV 45	Supervised Chemical Dependency Internship	3.5-4.5

Complete one course from the following:

HUSEV 10	Introduction to Human Services	3
HUSEV 41	Co-Occurring Disorders	3
PSYCH 1A	General Psychology	3
SOCIL 1	Introduction to Sociology	3

TOTAL UNITS REQUIRED FOR CERTIFICATE 30-31

COURSES

HUSEV-10 **3 UNITS**

Introduction to Human Services

TRANSFERABLE TO CSU
54 LECTURE HOURS

The course presents an introduction, overview and historical perspective on social work and human services. Special attention is given to current service delivery systems, their policies and procedures, and the tasks of culturally responsive social workers and human service workers within those settings. The course provides an opportunity to strengthen skills to work with all people and explore human service topics such as poverty, mental and physical health, disabilities, life stages, unequal access to resources and education, and substance abuse. (L)

HUSEV-11 **3 UNITS**

Working with Diverse Communities

TRANSFERABLE TO CSU
C-ID: ADS 195X
54 LECTURE HOURS

This course will examines the unique needs, issues, and concerns within diverse communities in respect to the impact of substance use disorders, intervention needs, and responses to treatment. An overview of historical, cultural, social, health and environmental factors impacting diverse communities will be discussed, as well as the role of ethnic and cultural practices. Particular attention will be given to population characteristics such as ethnicity/race, gender, age, economic, sexual orientation, and disability status. Ethnic and cultural differences will be emphasized to provide students with the skills needed to communicate effectively with diverse populations to create equitable, healthier and safer counseling environments (L) Grades are P/NP Option.

HUSEV-20 **3 UNITS**

Introduction to Chemical Dependency Studies

TRANSFERABLE TO CSU
C-ID: ADS 110X
54 LECTURE HOURS

This course provides an historical and sociological perspective on the use, abuse, and social control of drugs associated with substance use disorder. Included are overviews of the biopsychosocial nature of addiction; the impact of addiction on children, families and society; contemporary treatment and prevention approaches; and the addiction counseling profession. (L) Grades are P/NP Option.

HUSEV-21 **3 UNITS**

Introduction to Physiological and Psychological Effects of Drug Abuse

TRANSFERABLE TO CSU
C-ID: ADS 140X
54 LECTURE HOURS

This course provides an overview of the neurochemical, physical, and mental effects of commonly used addictive substances. Emphasis is placed on the pharmacology of addictive substances, the medical consequences of use, and therapeutic approaches for managing withdrawal, overdose, and substance use disorder. (L) Grades are P/NP Option.

HUSEV-23 **3 UNITS**

Introduction to the Development and Progression of Addictive Patterns of Behavior

TRANSFERABLE TO CSU
C-ID: ADS 150X
54 LECTURE HOURS

This course provides a comprehensive overview of theories and strategies for the prevention of substance use disorders. Primary, secondary, and tertiary evidence-based prevention models will be introduced and assessed. Prevention programs and activities appropriate for the community, school, parents and family, and work-sites will be covered. Strategies such as education, public policies, media/information dissemination, ethnic, cultural, and gender-specific approaches, environmental risk reduction, and alternatives will be presented and assessed for their application to different target populations. Introduction to the causes and development of addiction and co-dependency. Exploration of the process of denial, use of defense mechanisms, and the influences of the family. The sociological aspects of the addictive process will be explored and discussed. (L) Grades are P/NP Option.

HUSEV-28 **3 UNITS**

Legal and Ethical Aspects of Human Services

TRANSFERABLE TO CSU
C-ID: ADS 160X
54 LECTURE HOURS

This course explores the legal and ethical responsibilities in the human services and chemical dependency field. Emphasis is placed on professional responsibility and patient rights as well as issues of the work place and professional growth. Students will explore frameworks for addressing legal and ethical issues arising from engagement, assessment, and treatment of individuals, families, groups, and at-risk populations. Develops understanding of laws, code of ethics, and client rights. Examines the relationship between personal values and professional behavior. (L) Grades are P/NP Option.

HUSEV-24 **3 UNITS**

Introduction to Case Management

TRANSFERABLE TO CSU
C-ID: ADS 170X
54 LECTURE HOURS

This course provides an introduction and practical aspects of case management to implement in the human services field and substance-related disorder treatment. Topics covered include case management skills, collaboration, intake, orientation, screening and assessment, record documentation, ethics, clients' rights, confidentiality, interventions, crisis counseling techniques and theories, treatment and recovery planning, aftercare, and consultation and referrals. (L) Grades are P/NP Option.

HUSEV-25 **3 UNITS**

Basic Chemical Dependency Counseling

TRANSFERABLE TO CSU
C-ID: ADS 120X
54 LECTURE HOURS

Counseling is a relationship in which the counselor helps the client mobilizes resources to resolve problems and/or to modify attitudes and values. This is an introduction to the basic skills and techniques used in treating chemical dependency. i.e., psycho-dynamic, behavioral, cognitive-behavioral, multi-modal, client-centered, couples and family counseling. This course describes characteristics of an effective counselor, explores several theoretical models of counseling, and assists the individual to develop skills in active listening, building trust, reflecting feelings and content, and using motivational interviewing techniques. Case histories and specific theories will be analyzed. (L) Grades are P/NP Option.

HUSEV-28 **3 UNITS**

Skills and Techniques of Group Counseling

TRANSFERABLE TO CSU
C-ID ADS 130X
54 LECTURE HOURS

This course provides an introduction to group dynamics and group leadership skills within the context of human services and addiction treatment work settings including theoretical foundation, stages and processes; roles, responsibilities and ethics; strategies and techniques for facilitating group process. The focus is on group development, interpersonal and intrapersonal processes, and group facilitation skills. Topics included are communication skills in a group setting, theories of group counseling, best practices, guidelines and diversity issues. (L). Grading is P/NP Option.

HUSEV-33 **1 UNIT**

Self-Awareness: The Key To Non-Addictive Behavior

TRANSFERABLE TO CSU
18 LECTURE HOURS

Emphasis on techniques to build a healthy relationship with oneself as fundamental for releasing addictive behavior patterns and guard against counselor burnout. (L) Grades are P/NP Option.

HUSEV-40 **3 UNITS**

Family and Addiction

TRANSFERABLE TO CSU
C-ID: ADS 180X
54 LECTURE HOURS

This course provides an overview of the family systems approach to addiction counseling including analysis and examination of the relationship patterns that develop in families including multicultural families. The student will develop treatment strategies for assisting families and significant others during the stages of active addiction, addiction treatment, long-term recovery and relapse prevention using family-involved approaches. This would include the following: drug adolescent drug issues, co-dependency, enabling, adult children of alcoholics (ACA) with an interdisciplinary perspective. (L) Grades are P/NP Option

Advisory: HUSEV-20; HUSEV-21; HUSEV-23

HUSEV-41 **3 UNITS**

Co-Occurring Disorders

TRANSFERABLE TO CSU
C-ID: ADS 190X
54 LECTURE HOURS

This course reviews the major concepts, definitions, and features of co-occurring mental health disorders associated with addiction. Emphasis is placed on identifying the most current, evidence-based practices for treating co-occurring disorders and applying screening, assessment, referral, and treatment protocols for persons with co-occurring disorders who enter substance use treatment facilities. Students demonstrate the skills necessary to apply for California state certification as an alcohol and drug counselor as they relate to treating co-occurring disorders and familiarity with the terminology, diagnoses, and treatment conditions of the mental health field. (L) Grades are P/NP Option.

Prerequisite(s): HUSEV-20

HUSEV-44 **2.5 UNITS**

Chemical Dependency Internship Seminar

TRANSFERABLE TO CSU
C-ID: ADS 210X
45 LECTURE HOURS

This course reviews the major concepts, definitions, and features of co-occurring mental health disorders associated with addiction. Emphasis is placed on identifying the most current, evidence-based practices for treating co-occurring disorders and applying screening, assessment, referral, and treatment protocols for persons with co-occurring disorders who enter substance use treatment facilities. Students demonstrate the skills necessary to apply for California state certification as an alcohol and drug counselor as they relate to treating co-occurring disorders and familiarity with the terminology, diagnoses, and treatment conditions of the mental health field. (L) Grades are P/NP Option.

Co-requisites: HUSEV-45; HUSEV-20

Prerequisite(s): HUSEV-23; HUSEV-24; HUSEV-25; HUSEV-28

HUSEV-45 **V3.5-4.5 UNITS**

Supervised Chemical Dependency Internship

TRANSFERABLE TO CSU
255 LAB HOURS

This course offers students a supervised field experience in a community organization, agency, or institution, allowing the student to apply knowledge and learn new skills outside of the classroom environment. This course is designed to provide the student with an opportunity to develop skills that would facilitate gaining employment in the chemical dependency or human services fields. (L) Grades are P/NP Option.

Co-requisite: HUSEV-44

Humanities

Humanities is the study of making connections, a quest to understand "life in all of its manifestations." Art, sculpture, architecture, myth, religion, music, philosophy, and literature all provide a mirror to reflect the characteristics of a culture, its values, themes, and visions. Each is part of the web of life, giving insight into the totality.

Humanities seeks to explore the vital creativity and instinct of artists who brought about new insights in emerging cultures, the creative geniuses that helped to forge innovative ideas and modes of understanding, the creation and focus of religions that tapped the depths of the human spirit, philosophies and modes of thinking that shaped the consciousness of humankind, and the architecture that brought new ideas to form.

COURSES

HUMAN-5 **3 UNITS**

Art Appreciation

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

Introduction to art appreciation with an emphasis on basic 2D, 3D, and film mediums and their relationship to humanities. Historical and contemporary work with a multicultural focus will be emphasized. (L)

Limitations on Enrollment: Course not open for credit to students with credit in ART-5.

HUMAN-10 **3 UNITS**

Introduction To Western Humanities

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

Learning the habit of making connections through integration of the arts, architecture, music, literature, philosophy, religion and history from pre-history to the Medieval Age. (L) Grades are P/NP Option.

HUMAN-11 **3 UNITS**

Art, Literature and Music in Humanities

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

Art, literature, and music in the humanities, from the Middle Ages through the twentieth century. (L)

HUMAN-20 **3 UNITS**

Introduction To World Myth

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

Compares and contrasts ethnic and universal messages of myth. Explores life's great themes across many cultures. This class will cover myths from around the world, including at least four of the following cultures each semester: India, Mesopotamia, Africa, North and South America, Celtic, Nordic, East Asia, and others. (L)

HUMAN-26A **3 UNITS**

Women in Art I

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

The role of women as artists in the western world, beginning in the middle ages and concluding in the Twentieth Century art world. Grades are P/NP Option.

Limitations on Enrollment: Course not open for credit to students with credit in ART-3A.

HUMAN-26B **3 UNITS**

Women in Art II

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

Role of women as visual artists in Europe and the Americas, focusing on the Twentieth Century. Grades are P/NP Option.

Limitations on Enrollment: Course not open for credit to students with credit in ART-3B.

HUMAN-31 **3 UNITS**

Asian-American Humanities & Cultures

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

Survey of Asian-American cultures, including religions, traditions, and some highlights of history. (L)

Limitations on Enrollment: Course not open for credit to students with credit in ASIAN-31.

HUMAN-34 **3 UNITS**

Introduction To Film

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

Study of film as art and its influence on society, including interpretation, criticism, and technical developments; students view and discuss full-length feature films. (L)

Limitations on Enrollment: Course not open for credit to students with credit in THART-34 or ENGL-34.

Internship

COURSES

INTRN-45A **V0.5-8 UNITS**

First Semester Internship

TRANSFERABLE TO CSU
30-600 LAB HOURS

Coordination of introductory on-the-job learning within a career path and college major to improve employment skills and career opportunities through supervised paid employment or volunteer experience. Grades are P/NP Only.

Entrance Requirement(s): Must have local paid employment (75 hours per unit) or a volunteer position (60 hours per unit) related to the student's major. student's supervisor must agree to participate in the program, which entails communicating and meeting with college staff (Work Experience Mentor), assisting the student in writing and

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completing learning objectives, verifying the student's hours, evaluating the student, and otherwise training/guiding the student.

Limitations on Enrollment: Students enrolling in this class are not eligible for other CWEE or INTRN classes during the same semester. Students may not exceed sixteen (16) units in the combination of CWEE and INTRN classes.

INTRN-45B **V0.5-8 UNITS**

Second Semester Internship

TRANSFERABLE TO CSU
30-600 LAB HOURS

Coordination of intermediate on-the-job learning within a career path and college major to improve employment skills and career opportunities through supervised paid employment or volunteer experience, progressive from the first semester. Students may enroll in 1-8 units. Grades are P/NP Only.

Prerequisite(s): CWEE-45A or CWEE-45B or INTRN-45A or INTRN-46

Limitations on Enrollment: Students enrolling in this class are not eligible for other Cooperative Work Experience Education (CWEE) or Internship (INTRN) classes during the same semester. Students may not exceed sixteen (16) units in the combination of CWEE and INTRN classes.

INTRN-45C **V0.5-8 UNITS**

Third Semester Internship

TRANSFERABLE TO CSU
30-600 LAB HOURS

Coordination of intermediate on-the-job learning within a career path and college major to improve employment skills and career opportunities through supervised paid employment or volunteer experience, progressive from the first and second semesters. Grades are P/NP Only.

Prerequisite(s): INTRN-45B

INTRN-45D **V0.5-8 UNITS**

Fourth Semester Internship

TRANSFERABLE TO CSU
30-600 LAB HOURS

Coordination of advanced on-the-job learning within a career path and college major to improve employment skills and career opportunities through supervised paid employment or volunteer experience, progressive beyond the first through third semesters. Students may enroll in 1-8 units. Grades are P/NP Only.

Prerequisite(s): INTRN-45C

Entrance Requirement(s): Must have local paid employment (75 hours per unit) or a volunteer position (60 hours per unit) related to the student's major. Student's supervisor must agree to participate in the program, which entails communicating and meeting with college staff (Work Experience Mentor), assisting the student in writing and completing learning objectives, verifying the student's hours, evaluating the student, and otherwise training/guiding the student.

Limitations on Enrollment: Students enrolling in this class are not eligible for other Cooperative Work Experience (CWEE) or Internship (INTRN) classes during the same semester. Students may not exceed sixteen (16) units in the combination of CWEE and in INTRN classes.

Kinesiology

KINESIOLOGY

ASSOCIATE IN ARTS FOR TRANSFER

The Associate in Arts in Kinesiology for Transfer degree is designed to prepare students with the opportunity to complete their freshman/sophomore level classes required for a Bachelor's degree in Kinesiology within the California State University System (CSU). Upon completion of the Associate in Arts in Kinesiology degree, students will be prepared for transfer to a CSU for studies in Physical Therapy, Kinesiology, Pre-Medicine, and Exercise Science programs.

Associate in Arts in Kinesiology for Transfer requirements (as stated in SB1440 law) requires students to also complete the following:

- a minimum of 18 semester units in the major or area of emphasis as determined by the community college district
- 60 semester CSU transferable units
- California State University General Education-Breadth (CSU GE-Breadth) pattern of 39 units; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern of 37 units.
- Obtainment of a minimum grade point average (GPA) of 2.0.
- Earn a grade of "C" or better in all courses required for the major or area of emphasis.

Students who complete this program should be able to:

1. Demonstrate proficiency of skills needed in activities commonly included in human movement programs
2. Examine and evaluate physical activities and their relationship to wellness and fitness.
3. Analyze theoretical approaches and major concepts of health and nutrition.
4. Demonstrate knowledge and apply the fundamental rules and regulations of a variety of sports.

REQUIRED COURSES		UNITS
BIOL 4	Human Anatomy	4
BIOL 5	Human Physiology	4
KINES 20	Introduction to Kinesiology	3

Complete two courses from the following: (6-9 units)

BIOL 10L	General Biology ***OR***	4
BIOL 15	Bioscience ***OR***	4
BIOL 24L	Human Biology with Laboratory	4
CHEM 1A	General Chemistry ***OR***	5
CHEM 2A	Introductory Chemistry I	5
HLTH 3	First Aid & CPR for Kinesiology Majors	3
PHYS 2A	General Physics ***AND***	3
PHYS 3A	General Physics Laboratory	5
STAT 1	Introduction to Statistical Methods	4

Complete one course from three of the four movement-based areas: Team Sports; Individual Sports; Fitness; and Dance (4.5 units)

Team Sports

KINES 1.71	Basketball	1.5
KINES 1.75	Soccer	1.5
KINES 1.77	Volleyball-Beginning	1.5
KINES 1.78	Grass Doubles Volleyball	1.5
KINES 1.79	Volleyball-Intermediate	1.5

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Individual Sports

KINES 1.24	Bowling	1.5
KINES 1.25	Badminton	1.5
KINES 1.31	Golf-Beginning	1.5
KINES 1.33	Golf-Advanced	1.5

Fitness

KINES 1.21	Aerobic Exercise	1.5
KINES 1.22	Step Aerobics	1.5
KINES 1.26	Body Toning	1.5
KINES 1.27	Fitness Walking/Jogging	1.5
KINES 1.34	Boot Camp Fitness	1.5
KINES 1.36	Yoga	1.5
KINES 1.37	Club Fitness	1.5
KINES 1.57	Weight Training-Beginning	1.5
KINES 1.57B	Weight Training-Intermediate	1.5
KINES 1.59	Weight Training-High Intensity	1.5
KINES 4	Low Impact Fitness	1.5

Dance

KINES 1.42	Dance Techniques-Beginning	1.5
KINES 1.43	American Style Swing and Latin Dance	1.5

TOTAL UNITS REQUIRED FOR DEGREE MAJOR 21.5-24.5

Students earning an AA-T/AS-T degree must complete 60 semester units of coursework eligible for transfer to the CSU including the CSU GE-B or IGETC (CSU version), all courses in the major with "C" or better or "P" (pass) grades, and achieve a minimum transferable cumulative GPA of 2.0.

KINESIOLOGY

ASSOCIATE IN ARTS

The Kinesiology Associate in Arts degree provides an opportunity for students to explore the areas of health, fitness, and kinesiology. This degree is designed to provide an introductory foundation in these areas and to prepare students for life in the global community by developing a core of knowledge, skills and attitudes essential for personal and professional success. The health and nutrition courses emphasize practical and theoretical knowledge necessary for maintenance of physical and mental health. Students will develop and learn to promote an active and healthy life style. This Kinesiology AA does not guarantee transfer to a CSU or UC.

This degree in Kinesiology can lead to job opportunities in personal training, health education, coaching and employment at fitness clubs. Students transferring to a four year institution are advised to meet with a counselor for appropriate specific general education course requirements needed for the many careers associated with a Kinesiology degree before selecting courses.

Students who complete this program should be able to:

1. Examine and evaluate physical activities and their relationship to wellness and fitness.
2. Demonstrate proficiency of skills needed in activities commonly included in human movement programs.
3. Analyze theoretical approaches and major concepts of health and nutrition.
4. Demonstrate knowledge and apply the fundamental rules and regulations of a variety of sports.

REQUIRED COURSES **UNITS**

Complete four courses from the following:

HLTH 1	Health and Life Style Choices	3
HLTH 3	First Aid & CPR for Kinesiology Majors	3
HLTH 4	Psychosocial Health	3
HLTH 5	Sport Psychology	3
HLTH 6	Aging and Health	3
HLTH 10	Principles of Nutrition	3
HLTH 13	Nutrition and Life Fitness	3
KINES 20	Introduction to Kinesiology	3
KINES 26	Care and Prevention of Athletic Injuries	3

Complete a minimum of nine (9) units from:

KINES 1.21	Aerobic Exercise	1.5
KINES 1.22	Step Aerobics	1.5
KINES 1.24	Bowling	1.5
KINES 1.25	Badminton	1.5
KINES 1.26	Body Toning	1.5
KINES 1.27	Fitness Walking/Jogging	1.5
KINES 1.31	Golf-Beginning	1.5
KINES 1.33	Golf-Advanced	1.5
KINES 1.34	Boot Camp Fitness	1.5
KINES 1.36	Yoga	1.5
KINES 1.36B	Yoga-Intermediate	1.5
KINES 1.37	Club Fitness	1.5
KINES 1.42	Dance Techniques-Beginning	1.5
KINES 1.43	American Style Swing and Latin Dance	1.5
KINES 1.57	Weight Training-Beginning	1.5
KINES 1.57B	Weight Training-Intermediate	1.5
KINES 1.58	Cross Fit/Weight Training for Women	1.5
KINES 1.59	Weight Training-High Intensity	1.5
KINES 1.71	Basketball	1.5
KINES 1.75	Soccer	1.5
KINES 1.76	Advanced Soccer	1.5
KINES 1.77	Volleyball-Beginning	1.5
KINES 1.79	Volleyball-Intermediate	1.5
KINES 4	Low Impact Fitness	1.5
KINES 6	Adapted Total Fitness	1.5
KINES 7	Adapted Weight Training and Fitness	1.5
KINES 9	Adapted Weight Training and Recreational Activities	1.5
KINES 10	Adapted Yoga and Cardio Fitness	1.5
KINES 21A	Analysis of Softball: Offense	2
KINES 21B	Analysis of Softball: Defense	2
KINES 22	Analysis of Basketball	2
KINES 24	Analysis of Football	2
KINES 28	Analysis of Soccer	2
KINES 29A	Analysis of Baseball: Offense	2

TOTAL UNITS REQUIRED FOR DEGREE MAJOR 21

Students earning an AA/AS degree must complete a minimum of 18 units of General Education requirements, the multicultural graduation requirement, and the health requirement, in addition to the program units listed here. Students must complete a total of 60 degree applicable units to earn an AA or AS. Please see your counselor for additional information.

COURSES

KINES-1.21 **1.5 UNITS**

Aerobic Exercise

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
13.5 LECTURE HOURS
40.5 LAB HOURS

Aerobic exercise designed to develop and/or maintain cardiovascular endurance, muscular strength, flexibility, and coordination through the use of continuous vigorous movements. Fitness knowledge and nutritional practices will be presented. Grades are P/NP Option.

KINES-1.22 **1.5 UNITS**

Step Aerobics

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
13.5 LECTURE HOURS
40.5 LAB HOURS

Step aerobic exercise designed to develop and/or maintain cardiovascular fitness and endurance, muscular strength and endurance, flexibility, and coordination. Includes fitness and general health analysis and safety procedures. Grades are P/NP Option.

KINES-1.24 **1.5 UNITS**

Bowling

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
13.5 LECTURE HOURS
40.5 LAB HOURS

Coeducational bowling; the techniques and skills of bowling; emphasis on fundamentals, rules, and etiquette.

KINES-1.25 **1.5 UNITS**

Badminton

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
13.5 LECTURE HOURS
40.5 LAB HOURS

Skills and fundamentals in individual and doubles play with an emphasis on rules and etiquette. Grades are P/NP Option.

KINES-1.26 **1.5 UNITS**

Body Toning

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
13.5 LECTURE HOURS
40.5 LAB HOURS

A full body conditioning and strengthening workout, improving functional strength, flexibility and coordination. Strategies for improving vital core strength. Includes physical fitness analysis, fitness and nutrition, and safety procedures. Grades are P/NP Option.

KINES-1.27 **1.5 UNITS**

Fitness Walking/Jogging

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
13.5 LECTURE HOURS
40.5 LAB HOURS

Individualized walking/jogging program designed to improve cardiovascular endurance and muscular strength. Emphasis is on lifetime fitness including principles of nutrition, fitness and safety. Grades are P/NP Option.

KINES-1.31 **1.5 UNITS**

Golf-Beginning

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
13.5 LECTURE HOURS
40.5 LAB HOURS

Introduction to the basic knowledge and skills of golf, including rules, history, etiquette and the fundamental mechanics involved in the use of irons and woods. Grades are P/NP Option.

KINES-1.33 **1.5 UNITS**

Golf-Advanced

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
13.5 LECTURE HOURS
40.5 LAB HOURS

Advanced golf techniques will be covered in this course., including proper club selection, chipping, driving and putting. Students learn good course management while developing their short and long game. Grades are P/NP Option.

KINES-1.34 **1.5 UNITS**

Boot Camp Fitness

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
13.5 LECTURE HOURS
40.5 LAB HOURS

Designed to provide the student with a physically intense and challenging fitness class. Training exercise used will include jogging, interval training, obstacle course and a variety of calisthenics designed to enhance muscular strength and endurance. in addition, students will be challenged to understand and apply fitness training principles. The students will train individually, with a partner, and/or in a team setting. Grades are P/NP Option.

KINES-1.36 **1.5 UNITS**

Yoga

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
13.5 LECTURE HOURS
40.5 LAB HOURS

The history of yoga and development of basic Yoga postures, breathing practices, stretching, and relaxation techniques as a method to improve flexibility, decrease stress and improve physical and mental well-being. Grades are P/NP Option.

KINES-1.36B **1.5 UNITS**

Yoga - Intermediate

TRANSFERABLE TO CSU AND UC - UC UNIT LIMIT
13.5 LECTURE HOURS
40.5 LAB HOURS

Development of intermediate Yoga postures, breathing practices, stretching, and relaxation techniques as a method to improve flexibility, decrease stress and improve physical and mental well-being. Students will experience different styles of Yoga techniques. The history and philosophies of these styles will be covered. Grades are P/NP Option.

KINES-1.37 **1.5 UNITS**

Club Fitness

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
13.5 LECTURE HOURS
40.5 LAB HOURS

Individualized introductory exercises using treadmills, stationary bikes, rowing machines, and step machines for developing fitness levels. Physical fitness assessment and analysis is performed. Development of individualized fitness and wellness programs. Grades are P/NP Option.

KINES-1.42 **1.5 UNITS**

Dance Techniques-Beginning

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
13.5 LECTURE HOURS
40.5 LAB HOURS

Introduction to individual techniques of various dance : waltz, foxtrot, jitterbug, rhumba, cha-cha, polka, country swing, and two-step. Grades are P/NP Option.

KINES-1.43 **1.5 UNITS**

American Style Swing and Latin Dance

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
13.5 LECTURE HOURS
40.5 LAB HOURS

Introduction to the four most popular swing dances: East Coast Swing, West Coast Swing, Hustle, and either Jive or Lindy, and four of the most popular Latin dances: Cha Cha, Salsa, Samba, and Tango. Grades are P/NP Option.

KINES-1.57 **1.5 UNITS**

Weight Training-Beginning

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
13.5 LECTURE HOURS
40.5 LAB HOURS

Individualized weight training program designed to improve muscular strength and endurance. Emphasis is on lifetime fitness including principles of nutrition, fitness, and safety. Grades are P/NP Option.

KINES-1.57B **1.5 UNITS**

Weight Training-Intermediate

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
13.5 LECTURE HOURS
40.5 LAB HOURS

Individual weight conditioning for intermediate level students. Emphasis will be on learning proper use of machines, free weights, cables and stretching routines. Instruction on form, technique, safety, and muscle development. Participation will increase muscle size, strength, and endurance. Grades are P/NP Option.

KINES-1.58 **1.5 UNITS**

Cross Fit/Weight Training for Women

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
13.5 LECTURE HOURS
40.5 LAB HOURS

Emphasizes the design and implementation of individualized weight training programs to meet the specific muscular fitness needs and interests of women. Students will experience and evaluate the potential benefit of cross fit and weight training exercises to increase lean body tissue, reduce body fat, improve bone density, and develop firmer, more efficient muscles for enhanced appearance and performance. Conditioning techniques will focus on the utilization of weight resistance machines and free weights. Grades are P/NP Option.

KINES-1.59 **1.5 UNITS**

Weight Training-High Intensity

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
13.5 LECTURE HOURS
40.5 LAB HOURS

High intensity training involving lifting light weights at higher speeds. Circuit training using several machines, or stations, and lighter weights will be the typical workouts. Weight training methods and circuit training will be combined to improve aerobic fitness and muscular endurance. Basic nutrition and fitness principles will be covered. Grades are P/NP Option.

KINES-1.71 **1.5 UNITS**

Basketball

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
13.5 LECTURE HOURS
40.5 LAB HOURS

This is an introductory course to the game of basketball. This course is designed to introduce basic basketball skills, techniques and rules. Emphasis will be placed on fundamentals, etiquette and strategies, as well as an appreciation for a lifetime activity. Grades are P/NP Option.

KINES-1.75 **1.5 UNITS**

Soccer

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
13.5 LECTURE HOURS
40.5 LAB HOURS

Techniques, skills, rules, conditioning, and drills for soccer.

KINES-1.76 **1.5 UNITS**

Advanced Soccer

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
13.5 LECTURE HOURS
40.5 LAB HOURS

Advanced techniques of soccer including skills and conditioning used to prepare for competitive play.

KINES-1.77 **1.5 UNITS**

Volleyball-Beginning

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
13.5 LECTURE HOURS
40.5 LAB HOURS

Fundamental skills and techniques for beginning volleyball play including: history, rules of play, officiating, and beginning level offensive and defensive strategies. Grades are P/NP Option.

KINES-1.78 **1.5 UNITS**

Grass Doubles Volleyball

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
13.5 LECTURE HOURS
40.5 LAB HOURS

Fundamental skills and techniques for outdoor grass doubles volleyball, including history, rules of play, officiating, and offensive and defensive strategies. Grades are P/NP Option.

KINES-1.79 **1.5 UNITS**

Volleyball-Intermediate

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
13.5 LECTURE HOURS
40.5 LAB HOURS

Fundamental skills and techniques for intermediate volleyball, including history, the rules of play, officiating, and offensive and defensive strategies. Grades are P/NP Option.

KINES-3 **1.5 UNITS**

Adapted Physical Education Gen Cond

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
13.5 LECTURE HOURS
40.5 LAB HOURS

Introduction to adapted physical education for students with disabilities. Provides students with the opportunities to obtain the benefits of improved physical fitness through an individualized program of exercise. Principles of fitness and nutrition. Students with disabilities will be required to show proof of disability from a physician. Grades are P/NP Option.

KINES-4 **1.5 UNITS**

Low Impact Fitness

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
13.5 LECTURE HOURS
40.5 LAB HOURS

Individualized exercise prescription for persons with disabilities in various stages of wellness who are seeking opportunities to improve their fitness levels. Program includes exercises to improve posture, aerobics, flexibility, strength, and balance. Students with disabilities will be required to show proof of disability from a physician. Grades are P/NP Option.

KINES-6 **1.5 UNITS**

Adapted Total Fitness

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
13.5 LECTURE HOURS
40.5 LAB HOURS

This is a general physical fitness course specifically intended for students with disabilities. Students will be given an opportunity to engage in a personalized program of exercise that promotes and develops overall physical fitness. Principles of fitness and nutrition. Students with disabilities will be required to show proof of disability from a physician. Grades are P/NP Option.

KINES-7 **1.5 UNITS**

Adapted Weight Training and Fitness

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
13.5 LECTURE HOURS
40.5 LAB HOURS

This course is designed as an introduction to progressive resistance weight training for students with disabilities. Students will engage in an individualized program of exercise that promotes knowledge of fitness principles and basic anatomy, the development of cardiovascular respiratory and muscle endurance, muscle strength and flexibility, and a healthy body composition. Students with disabilities will be required to show proof of disability from a physician. Emphasis will be placed on training fundamentals, technique, conditioning, and safety. Grades are P/NP Option.

KINES-9 **1.5 UNITS**

Adapted Weight Training and Recreational Activities

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
13.5 LECTURE HOURS
40.5 LAB HOURS

Adapted strength training techniques and methods to improve overall muscular endurance and fitness. Additionally specific modified activities, games and sports will be experienced by the student to enhance their participation in life-long activities designed to improve self-esteem, social interaction and fitness. Activities include but are not limited to bocci ball, volleyball, frisbee games, pickle ball, horseshoes and basketball. Principles of fitness and nutrition. Students with disabilities will be required to show proof of disability from a physician. Grades are P/NP Option.

KINES-10 **1.5 UNITS**

Adapted Yoga and Cardio Fitness

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
13.5 LECTURE HOURS
40.5 LAB HOURS

Adapted Yoga and Cardio Fitness methods and techniques modified to individual needs and disabilities. Skills and techniques utilized to improve relaxation, flexibility, core stabilization and cardiovascular fitness. Principles of fitness and nutrition. Students with disabilities will be required to show proof of disability from a physician. Grades are P/NP Option.

KINES-20 **3 UNITS**

Introduction to Kinesiology

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
C-ID: KIN 100
54 LECTURE HOURS

This course provides an introduction to the interdisciplinary approach to the study of human movement. It provides an orientation to various educational pathways, requirements, and career opportunities in kinesiology in the areas of teaching, coaching, allied health, and fitness professions. Basic concepts of the kinesiology discipline and the importance of the sub-disciplines are discussed.

KINES-21A **2 UNITS**

Analysis of Softball: Offense

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
36 LECTURE HOURS

Study and analysis of the various phases of softball offense, including philosophy, mental approach, hitting, and base running.

KINES-21B **2 UNITS**

Analysis of Softball: Defense

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
36 LECTURE HOURS

Analysis and study of the various phases of softball defense, including philosophy, fielding, pitching, mental approach, catching, and positions.

KINES-22 **2 UNITS**

Analysis of Basketball

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
36 LECTURE HOURS

Study and analysis of offensive and defensive basketball, including strategies and theory. Current techniques of shooting, passing, dribbling, footwork along with the application of scouting to competitive play.

KINES-24 **2 UNITS**

Analysis of Football

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
36 LECTURE HOURS

Analysis of offensive and defensive football, including philosophy and strategies; current techniques of passing, blocking, and tackling along with practical application of scouting.

KINES-26 **3 UNITS**

Care and Prevention of Athletic Injuries

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
45 LECTURE HOURS
27 LAB HOURS

An introduction to the treatment and prevention of specific athletic injuries. This course will cover the identification of injuries, proper treatment after they occur, and preventative measures. Establishing effective health care systems.

KINES-28 **2 UNITS**

Analysis of Soccer

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
36 LECTURE HOURS

Study and analysis of various phases of soccer, including laws, fundamentals, offensive and defensive strategy, and different soccer .

KINES-29A **2 UNITS**

Analysis of Baseball: Offense

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
36 LECTURE HOURS

Study and analysis of various phases of baseball offense, including fundamental skills of hitting and base running, and analysis of offensive statistics.

KINES-29B **2 UNITS**

Analysis of Baseball: Defense

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
36 LECTURE HOURS

Study and analysis of various phases of baseball defense, including fundamental skills of fielding, pitching and positioning, and analysis of defensive statistics.

Kinesiology Family of Classes

AEROBICS:
Family of Classes
(No more than four classes can be attempted within each family of classes listed below. See page 49 for details.)
KINES 1.21 – Aerobics Exercise
KINES 1.22 – Step Aerobics
KINES 1.27 – Fitness Walking/Jogging

BASKETBALL:
Family of Classes
(No more than four classes can be attempted within each family of classes listed below. See page 39 for details.)
KINES 1.71 – Basketball

BODY TONING:
Family of Classes
(No more than four classes can be attempted within each family of classes listed below. See page 39 for details.)
KINES 1.26 – Body Toning
KINES 1.37 – Club Fitness

BOWLING:
Family of Classes
(No more than four classes can be attempted within each family of classes listed below. See page 39 for details.)
KINES 1.24 – Bowling

CONDITIONING:
Family of Classes
(No more than four classes can be attempted within each family of classes listed below. See page 39 for details.)
KINES 3 – Adapted Physical Education Gen Cond
KINES 1.34 – Boot Camp Fitness

DANCE:
Family of Classes
(No more than four classes can be attempted within each family of classes listed below. See page 39 for details.)
KINES 1.42 – Dance Techniques – Beginning
KINES 1.43 – American Style Swing and Latin Dance

GOLF:
Family of Classes
(No more than four classes can be attempted within each family of classes listed below. See page 39 for details.)
KINES 1.31 – Golf - Beginning
KINES 1.33 – Golf – Advanced

RAQUET SPORT:
Family of Classes
(No more than four classes can be attempted within each family of classes listed below. See page 39 for details.)
KINES 1.25 – Badminton

SOCCER:
Family of Classes
(No more than four classes can be attempted within each family of classes listed below. See page 39 for details.)
KINES 1.75 – Soccer
KINES 1.76 – Advanced Soccer

SPORTS ANALYSIS:
Family of Classes
(No more than four classes can be attempted within each family of classes listed below. See page 39 for details.)
KINES 21A – Analysis of Softball: Offense
KINES 21B – Analysis of Softball: Defense
KINES 22 – Analysis of Basketball
KINES 24 – Analysis of Football
KINES 28 – Analysis of Soccer
KINES 29A – Analysis of Baseball: Offense
KINES 29B – Analysis of Baseball: Defense

VOLLEYBALL:
Family of Classes
(No more than four classes can be attempted within each family of classes listed below. See page 39 for details.)
KINES 1.77 - Volleyball – Beginning
KINES 1.78 – Grass Doubles Volleyball
KINES 1.79 – Volleyball – Intermediate

WEIGHT TRAINING:
Family of Classes
(No more than four classes can be attempted within each family of classes listed below. See page 39 for details.)
KINES 1.57 – Weight Training – Beginning
KINES 1.59 – Weight Training – High Intensity
KINES 1.57B – Weight Training – Intermediate
KINES 1.58 – Cross Fit/Weight Training for Women
KINES 7 – Adapted Weight Training Club Fitness
KINES 9 – Adapted Weight Training and Recreational Activities

YOGA:
Family of Classes
(No more than four classes can be attempted within each family of classes listed below. See page 39 for details.)
KINES 1.36 – Yoga
KINES 1.36B – Yoga - Intermediate
KINES 10 – Adapted Yoga and Cardio Fitness

Learning and Development

COURSES

LEARN-155 **2 UNITS**

Beginning Assistive Computer Technology

18 LECTURE HOURS
54 LAB HOURS

Designed for students with disabilities who have limited computer experience. Focus is on use of keyboard/mouse, personal data storage, basic MS Word, use of MyCampus Portal and Canvas, internet use, educational websites, and software for independent learning. Incorporates an overview of currently available assistive computer technology used to meet the educational needs of students with physical, learning, and cognitive impairments. Grades are P/NP Only.

LEARN-156 **2 UNITS**

Intermed Assistive Computer Technology

18 LECTURE HOURS
54 LAB HOURS

Designed for students with disabilities in need of assistive computer technology to ensure equal access to college materials and improved efficiency on academic tasks. Prepares student for independent use of current technologies available in college computer labs, modern work environments, and personally adapted home computer systems. Recommendation: basic reading/writing skills and familiarity with computers. Grades are P/NP Only.

LEARN-174 **3 UNITS**

Basic Math Facts and Operations

36 LECTURE HOURS
54 LAB HOURS

Mastery of basic mathematical facts of addition, subtraction, multiplication, and division; basic operations with whole numbers, and addition and subtraction of like fractions. Grades are P/NP Option.

LEARN-180 **3 UNITS**

Reading and Writing Development

54 LECTURE HOURS

Designed especially for students with disabilities and others who have difficulty learning by traditional methods. Introductory course in basic reading/writing development in preparation for subsequent coursework requiring academic language arts skills. Emphasis on exploring current perception as a reader/writer, utilizing strategies for improved reading comprehension, understanding sentence/paragraph structure, building skills in mechanics of writing, and expanding vocabulary. This class will incorporate the use of educational technology to accelerate learning and as a tool for raising efficiency of reading/writing tasks. Recommendation: Basic reading/writing skills, familiarity with computers, and readiness for college participation. Grades are P/NP Only.

LEARN-251 **1 UNIT**

Academic Evaluation

18 LECTURE HOURS

Designed for students who wish to better understand their individual spectrum of learning aptitudes including current achievement levels. Eligibility for academic accommodations may be considered based on testing information using step-by-step guidelines mandated by the California Community College System. Grades are P/NP Only.

LEARN-515 **0 UNITS**

Academic Strategies

36 LECTURE HOURS

Designed especially for students with disabilities and others who have difficulty learning by traditional methods. Opportunity provided for self-analysis, acquisition, and application of learning strategies through a hands-on approach with guided practice. Strategies include: time management, organization, memory, listening, note taking, textbook reading, and test preparation. Emphasis on self-advocacy and use of appropriate accommodations including assistive technology. Recommendation: Basic reading/writing skills, familiarity with computers, and a readiness for college participation. Grades are Satisfactory Progress (Noncredit).

LEARN-518 **0 UNITS**

Workforce Reading and Writing Skills

36 LECTURE HOURS
54 LAB HOURS

Designed for students with disabilities, learning differences, and/or a history of difficulty developing reading/writing skills. Review of basic skills in written language in preparation for entering the workforce. Emphasis on building competency in reading comprehension and writing proficiency typically needed for success in vocational and/or entry level employment. May incorporate use of assistive computer technology. Recommendation: Basic reading/writing skills, familiarity with computers, and a readiness for college participation.

LEARN-551 **0 UNITS**

Academic Evaluation

18 LECTURE HOURS

Designed for students who wish to better understand their individual spectrum of learning aptitudes including current achievement levels. Eligibility for academic accommodations may be considered based on testing information using step-by-step guidelines mandated by the California Community College system. Grades are Satisfactory Progress (Noncredit).

LEARN-555 **0 UNITS**

Beginning Assistive Computer Technology

18 LECTURE HOURS
54 LAB HOURS

Designed for students with disabilities who have limited computer experience. Focus is on use of keyboard/mouse, personal data storage, basic MS Word, use of MyCampus Portal and Canvas, internet use, educational websites, and software for independent learning. Incorporates an overview of currently available assistive computer technology used to meet the educational needs of students with physical, learning, and cognitive impairments. Grades are Satisfactory Progress (Noncredit).

LEARN-556 **0 UNITS**

Intermed Assistive Computer Technology

18 LECTURE HOURS
54 LAB HOURS

Designed for students with disabilities in need of assistive computer technology to ensure equal access to college materials and improved efficiency on academic tasks. Prepares student for independent use of current technologies available in college computer labs, modern work environments, and personally adapted home computer systems. (C) Grades are Satisfactory Progress (Noncredit).

LEARN-575 **0 UNITS**

Workforce Mathematics

36 LECTURE HOURS
54 LAB HOURS

Designed for students with learning differences and a history of difficulty in mathematics. Review of basic math skills in preparation for the workforce and/or career technical education. Emphasis on math calculations and situational word problems encountered in vocational employment. Recommendation: Basic reading/writing skills, familiarity with computers, and a readiness for college participation.

LEARN-590A **0 UNITS**

Supervised Tutoring for College Success Center

1-162 LAB HOUR(S)

Individualized and group assistance in specific courses. Grades are Satisfactory Progress (Noncredit).

LEARN-590B **0 UNITS**

Supervised Tutoring in Writing

1-162 LAB HOUR(S)

Individualized and small group assistance for reading and writing in courses across the curriculum. Grades are Satisfactory Progress (Noncredit).

Library Science

COURSES

LIBSC-1 **1 UNIT**

Basic Research Skills

TRANSFERABLE TO CSU AND UC
18 LECTURE HOURS

This course will help students acquire beginning information literacy skills necessary to conduct academic or personal research. It provides a step-by-step guide to the research process that is applicable to term papers, course work, and life-long learning. It emphasizes developing effective search strategies, selecting information tools, locating and retrieving information sources, analyzing and critically evaluating information, and using information. (L) Grades are P/NP Option.

Manufacturing Technology

MANUFACTURING TECHNOLOGY/MACHINING

ASSOCIATE IN SCIENCE

The A.S. in Manufacturing Technology is a comprehensive program of instruction designed to develop knowledge of scientific principles, mathematical concepts, and technical skills. The program will provide students with laboratory experiences found in machining, welding, and related technologies. These experiences will enable the student to enter industry with problem-solving skills in design, production planning, materials handling, quality control, inspection, and programming with computer-aided controls. The student, upon the successful completion of the program, will have entry-level job skills.

Students who complete this program should be able to:

1. Demonstrate skill in the use of manual machine tools.
2. Demonstrate skilled use of Advanced Manufacturing tools.
3. Demonstrate knowledge of proper working habits and safety practices in an industrial environment.
4. Demonstrate knowledge of interpreting shop drawings and prints.

REQUIRED COURSES		UNITS
DRAFT 20	Blueprint and Specifications Reading	3
DRAFT 30	Technical Drawing with AutoCAD	3
MFGT 20	Principles of Machine Shop	3
MFGT 21	Intermediate Machine Shop	4
MFGT 34	Computer Numerical Control	4
MFGT 35	Computer Aided Manufacturing	3
MFGT 60	Problems in Manufacturing Technology	3
Complete a minimum of 7 additional units from the following:		
AUTO 22	Hydraulics (Fluid Power)	3
WELD 10	Introduction To Sheilded Metal Arc Welding (SMAW)	4
WELD 20	Introduction To Gas Metal Arc Welding (GMAW)	4
WELD 83	GMAW/GTAW Production Welding	4
WELD 85	Structural Design and Fabrication	4
TOTAL UNITS REQUIRED FOR DEGREE MAJOR		**30**

Students earning an AA/AS degree must complete a minimum of 18 units of General Education requirements, the multicultural graduation requirement, and the health requirement, in addition to the program units listed here. Students must complete a total of 60 degree applicable units to earn an AA or AS. Please see your counselor for additional information.

MANUFACTURING TECHNOLOGY/MACHINING

CERTIFICATE OF ACHIEVEMENT

Manufacturing Technology is a comprehensive program of instruction designed to develop knowledge of scientific principles, mathematical concepts, and technical skills. It includes laboratory experiences found in machining, welding, and related technologies. These experiences will enable the student to enter industry with problem-solving skills in design, production planning, materials handling, quality control, inspection, and programming with computer numerical controls. The student, upon the successful completion of the program, will have a job-entry skill.

Students who complete this program should be able to:

1. Demonstrate knowledge of proper working habits and safety practices in an industrial environment
2. Demonstrate skill in the use of manual machine tools including: lathes, mills, drilling machines, grinding machines, and inspection tools.
3. Demonstrate skilled use of Advanced Manufacturing tools such as: Computer aided Design, Computer aided Manufacturing, CNC Milling Centers, CNC Turning Centers, inspection and measurement tools.
4. Demonstrate knowledge of interpreting shop drawings and prints.

REQUIRED COURSES		UNITS
AUTO 22	Hydraulics (Fluid Power)	3
DRAFT 30	Technical Drawing with CAD	3
MFGT 20	Principles of Machine Shop	3
MFGT 21	Intermediate Machine Shop	4
MFGT 34	Computer Numerical Control	4
MFGT 35	Computer Aided Manufacturing	3
MFGT 60	Problems in Manufacturing Technology	3

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Complete one course from the following:

WELD 10	Introduction to Shielded Metal Arc Welding (SMAW)	4
WELD 30	Gas Welding	2

TOTAL UNITS REQUIRED FOR CERTIFICATE 25-27

COURSES

MFGT-20 **3 UNITS**

Principles of Machine Shop

TRANSFERABLE TO CSU
36 LECTURE HOURS
54 LAB HOURS

Basic set-up and operation of the Engine Lathe, Vertical Milling Machine, Drilling machines, Bandsaws, and grinding machines. Emphasis will also focus on precision measurement. The course includes tooling selection for the above machines. Introduction to computer numerical control is included. Safety in all aspects of machining. (L,M)

MFGT-21 **4 UNITS**

Intermediate Machine Shop

TRANSFERABLE TO CSU
54 LECTURE HOURS
54 LAB HOURS

Intermediate level machine shop, with focus on precision layout and safety practices, the set-up and operation of the vertical milling machine, the horizontal milling machine, and the engine lathe. Special emphasis on the concept of fits and development of skills acquired in MFGT-20 or equivalent. Students will produce a machined mechanical object using the machine shop.

Prerequisite(s): MFGT-20

MFGT-34 **4 UNITS**

Computer Numerical Control

TRANSFERABLE TO CSU
54 LECTURE HOURS
54 LAB HOURS

Manual programming of computer numerically controlled machine tools and processes, using the standard g-code format. Programs will include linear interpolation, circular interpolation, and helical interpolation. Canned cycles and macros are also used.

MFGT-35 **3 UNITS**

Computer Aided Manufacturing

TRANSFERABLE TO CSU
36 LECTURE HOURS
54 LAB HOURS

The use of a CAM (Computer Aided Manufacturing) software system to learn about Features, solids, geometry, and surfaces in the production of parts through the use of a CNC lathe and milling machine. (C)

Prerequisite(s): MFGT-34

MFGT-50 **3 UNITS**

Principles of Programmable Logic Controllers

36 LECTURE HOURS
54 LAB HOURS

This course introduces basic concepts of Programmable Logic Controllers (PLC) use and applications including PLC programming, instillation, operation and troubleshooting, as well as basic communications and logic operations. Students will program and build PLC systems with emphasis on practices used in the manufacturing industry. Grades are P/NP Option.

MFGT-51 **3 UNITS**

Industrial Electronics Systems

36 LECTURE HOURS
54 LAB HOURS

This course covers basic AC/DC circuit principles and practices. Students will explore areas of electrical and electronic circuits including: circuit theory, components, circuit construction and analysis, soldering techniques, proper test equipment usage, troubleshooting methodology, and applications in various technical fields. This course discusses the elements and applications of electricity that are common to any industrial facility. This course also covers applications in accordance with the National Electric Code (NEC). Grades are P/NP Option.

MFGT-55 **4 UNITS**

Principles of Material Science

54 LECTURE HOURS
54 LAB HOURS

This is an introductory course to the properties and performance of materials used in the Manufacturing and Welding industries. Knowledge of material properties is used to understand the behavior and structure of engineering materials. Hands-on laboratory activities include the testing of metals, polymers, composites, wood, and other materials. Not intended to satisfy Engineering requirements.

MFGT-60 **3 UNITS**

Problems in Manufacturing Technology

36 LECTURE HOURS
54 LAB HOURS

Analysis of special problems in manufacturing. Study in specialized areas of manufacturing technology with project goals and production paths determined in a team setting. Learning will be applied to problem solving and to product creation. (C)

MFGT-62 **3 UNITS**

Advanced Machine Shop

36 LECTURE HOURS
54 LAB HOURS

This is an advanced course in machining, which encompasses tool & cutter grinding, part design using a turret lathe, and a tracing lathe. Concepts that will also be covered are aspects of surface grinding and EDM machining. (L,M)

Mass Communications

MASS COMMUNICATIONS

ASSOCIATE IN ARTS

Students who complete this program should be able to:

1. Demonstrate effective speaking, writing, and listening skills for communication in personal, public, and media areas.
2. Demonstrate the ability to observe events, gather information, write news reports and news releases, report on events, and edit other people's writings.

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3. Demonstrate the ability to understand the media critically and recognize how media shape and are shaped by politics, society, culture, economics, and daily lives.
4. Demonstrate the ability to recognize the power of persuasion and ethical responsibilities of communicators in communication at all levels.

REQUIRED COURSES		UNITS
MCOMM 2	Introduction to Electronic Media	3
MCOMM 4	Beginning TV Studio Production	3
MCOMM 5	Beginning Motion Picture Production	3
MCOMM 6	Beginning Audio Production	3
MCOMM 8	Introduction to Media Writing ***OR***	3
MCOMM 19	News Writing and Reporting	3
MCOMM 14	Advanced Studio Video Production ***OR***	3
MCOMM 20L	Newspaper Production	3-4
MCOMM 15	Beginning Single Camera Production	3
MCOMM 17	Television Remote Production	3
TOTAL UNITS REQUIRED FOR DEGREE MAJOR		**24**

Students earning an AA/AS degree must complete a minimum of 18 units of General Education requirements, the multicultural graduation requirement, and the health requirement, in addition to the program units listed here. Students must complete a total of 60 degree applicable units to earn an AA or AS. Please see your counselor for additional information.

MASS COMMUNICATIONS

ASSOCIATE IN SCIENCE

Students who complete this program should be able to:

1. Demonstrate effective speaking, writing, and listening skills for communication in personal, public, and media areas.
2. Demonstrate the ability to observe events, gather information, write news reports and news releases, report on events, and edit other people's writings.
3. Demonstrate the ability to understand the media critically and recognize how media shape and are shaped by politics, society, culture, economics, and daily lives.
4. Demonstrate the ability to recognize the power of persuasion and ethical responsibilities of communicators in communication at all levels.

REQUIRED COURSES		UNITS
MCOMM 4	Beginning TV Studio Production	3
MCOMM 5	Beginning Motion Picture Production	3
MCOMM 6	Beginning Audio Production	3
MCOMM 8	Introduction to Media Writing	3
MCOMM 15	Beginning Single Camera Production	3
MCOMM 17	Television Remote Production	3
TOTAL UNITS REQUIRED FOR DEGREE MAJOR		**18**

Students earning an AA/AS degree must complete a minimum of 18 units of General Education requirements, the multicultural graduation requirement, and the health requirement, in addition to the program units listed here. Students must complete a total of 60 degree applicable units to earn an AA or AS. Please see your counselor for additional information.

MASS COMMUNICATIONS

CERTIFICATE OF ACHIEVEMENT

Students who complete this program should be able to:

1. Demonstrate effective speaking, writing, and listening skills for communication in personal, public, and media areas.
2. Demonstrate the ability to observe events, gather information, write news reports and news releases, report on events, and edit other people's writings.
3. Demonstrate the ability to understand the media critically and recognize how media shape and are shaped by politics, society, culture, economics, and daily lives.
4. Demonstrate the ability to recognize the power of persuasion and ethical responsibilities of communicators in communication at all levels.

REQUIRED COURSES		UNITS
ART 31	Basic Photography	3
MCOMM 4	Beginning TV Studio Production	3
MCOMM 5	Beginning Motion Picture Production	3
MCOMM 6	Beginning Audio Production	3
MCOMM 8	Introduction to Media Writing	3
MCOMM 15	Beginning Single Camera Production	3
MCOMM 17	Television Remote Production	3
TOTAL UNITS REQUIRED FOR CERTIFICATE		**21**

COURSES

MCOMM-2 **3 UNITS**

Introduction to Electronic Media

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

This course introduces the history, structure, function, economics, content and evolution of radio, television, film, the Internet, and new media, including traditional and mature formats. The social, political, regulatory, ethical and occupational impact of the electronic media are also studied. (L)

MCOMM-3 **3 UNITS**

Exploring American Television

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

Students explore new trends in television production and distribution in American TV. Potential genres include situation comedy, crime drama, western, legal drama, sci-fi, medical drama and reality TV. Content will be analyzed from a variety of perspectives including social, cultural, political, historical, and economic to explore how television impacts culture and the individual. Grades are P/NP Option.

MCOMM-4 **3 UNITS**

Beginning TV Studio Production

TRANSFERABLE TO CSU
36 LECTURE HOURS
54 LAB HOURS

This course introduces theory, terminology and operation of a multi-camera television studio and control room. Topics include studio signal flow, directing, theory and operation of camera and audio equipment, switcher operation, fundamentals of lighting, graphics, video control and video recording, and real-time video production. (L,C)

MCOMM-5 **3 UNITS**

Beginning Motion Picture Production

TRANSFERABLE TO CSU AND UC
36 LECTURE HOURS
54 LAB HOURS

This course provides an introduction to the theory, terminology, and process of motion picture production for film and television. Topics include basic cinematography including the operation, function and creative uses of production and post-production equipment, scriptwriting, camera operation, shot composition, lighting, sound recording and mixing, and editing. (L,C)

MCOMM-6 **3 UNITS**

Beginning Audio Production

TRANSFERABLE TO CSU
36 LECTURE HOURS
54 LAB HOURS

This course serves as an introduction to the theory and practice of audio production for radio, television, film and digital recording applications. Students will learn the fundamentals of sound design and aesthetics, microphone use, and digital recording equipment. Students gain hands on experience recording, editing, mixing and mastering audio. Upon completion, students will have basic knowledge of applied audio concepts, production workflow, equipment functions, and audio editing software. (L,C)

MCOMM-8 **3 UNITS**

Introduction to Media Writing

TRANSFERABLE TO CSU
54 LECTURE HOURS

Basic introductory course in writing for the film and electronic media. Emphasis on preparing scripts in proper formats, including fundamental technical, conceptual and stylistic issues related to writing fiction and non-fiction scripts for informational and entertainment purposes. Includes a writing evaluation component as a significant part of the course requirement. (L,C)

MCOMM-14 **3 UNITS**

Advanced Studio Video Production

TRANSFERABLE TO CSU
36 LECTURE HOURS
54 LAB HOURS

Advanced technical operation and creative use of television studio equipment. Techniques of production, use of cameras, lighting, sound, titling, video recording, and video switching effects. (L)

Prerequisite(s): MCOMM-4

MCOMM-15 **3 UNITS**

Beginning Single Camera Production

TRANSFERABLE TO CSU
36 LECTURE HOURS
54 LAB HOURS

The course provides an introduction to the theory, terminology, and operation of single camera video production, including composition and editing techniques, camera operation, portable lighting, video recorder operation, audio control and basic editing. This course focuses on the aesthetics and fundamentals of scripting, producing, directing on location, postproduction, and exhibition/distribution. (L,C)

MCOMM-17 **3 UNITS**

Television Remote Production

TRANSFERABLE TO CSU
36 LECTURE HOURS
54 LAB HOURS

Advanced creative use of electronic field video production while using multiple cameras to produce live or archived television events, such as, sporting events, theatrical and musical productions, and entertainment or informational programs. Much of class time is devoted to “on location” production. (L)

MCOMM-19 **3 UNITS**

News Writing and Reporting

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

Recognizing, gathering, and writing the news in accepted journalistic style; learning to conduct personal interviews and cover speeches, meetings, and other events; understanding the legal and ethical issues related to reporting; emphasis on language and style, accuracy in news gathering, and research and organization of various types of stories. (L)

Prerequisite(s): ENGL-51

MCOMM-40 **1 UNIT**

Introduction To Online Learning

TRANSFERABLE TO CSU
18 LECTURE HOURS

This course is designed to familiarize students with the online learning environment and prepare them to successfully complete an online course. Students will be introduced to the technology, the online environment, and managing an online course. Topics include hardware and software requirements, problem-solving online issues, using additional software to review or submit class assignments, effective online communication skills and strategies, online assessment tools, critical thinking in the online environment, ethical online behavior, and emerging learning technologies. Grades are P/NP Option.

Mathematics

MATHEMATICS

ASSOCIATE IN SCIENCE FOR TRANSFER

The Associate in Science in Mathematics for Transfer is designed for students for transfer into the CSU system to complete a bachelor’s degree in Mathematics or similar major.

Pursuant to SB 1440, the Associate in Science for Transfer is intended for students who plan to complete a bachelor’s degree in Mathematics at a CSU campus. Students completing an AS-T degree are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that does accept the AS-T will be required to complete no more than 60 units after transfer to earn a bachelor’s degree. The Associate in Science in Mathematics for Transfer degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system.

In all cases, students should consult with a counselor for more information on university admission and transfer requirements. To earn this AS-T degree, students must meet the following Associate Degree for Transfer requirements (pursuant to SB1440 law):

- Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University.
- The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education Breadth Requirements.
- A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
- Obtainment of a minimum grade point average of 2.0.
- Earn a grade of “C” or better in all courses required for the major or area of emphasis.

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Students who complete this program should be able to:

1. Graph equations, functions, inequalities.
2. Perform operations on mathematical objects (e.g. numbers, expressions, functions, matrices).
3. Solve equations and inequalities.
4. Apply definitions, notation and properties of mathematical concepts.
5. Solve applied problems using mathematical or statistical methods.
6. Prove identities and theorems.

REQUIRED COURSES		UNITS
MATH 1A	Single Variable Calculus I -Early Transcendentals	4
MATH 1B	Single Variable Calculus II - Early Transcendentals	4
MATH 1C	Multivariable Calculus	4

List A: Complete one course from the following:

MATH 2	Ordinary Differential Equations	3
MATH 3	Linear Algebra	3

List B: Complete one additional course from the following or MATH 2 or MATH 3 if not already used from List A:

MATH 2	Ordinary Differential Equations (if not already used)	3
MATH 3	Linear Algebra (if not already used)	3
PHYS 4A	Mechanics	4
COMSC 6	Basic Language Programming	3
COMSC 7	Intro to Visual Basic Programming	3
COMSC 9A	C++ Programming	4

TOTAL UNITS REQUIRED FOR DEGREE MAJOR 18-19

Students earning an AA-T/AS-T degree must complete 60 semester units of coursework eligible for transfer to the CSU including the CSU GE-B or IGETC (CSU version), all courses in the major with "C" or better or "P" (pass) grades, and achieve a minimum transferable cumulative GPA of 2.0.

MATHEMATICS

ASSOCIATE IN SCIENCE

The Associate in Science in Mathematics degree is designed for students who are interested in transferring to a college or university to major in mathematics, engineering, the physical or life sciences, business, liberal studies, and a host of other majors. The AS in Mathematics requires the core freshman and sophomore mathematics courses for a baccalaureate degree in mathematics plus an additional mathematics or statistics course for breadth. Students who intend to transfer to a CSU and major in Math are encouraged to pursue the AS-T.

Students who complete this program should be able to:

1. Solve equations and inequalities.
2. Perform operations on mathematical objects (e.g. numbers, expressions, functions, matrices).
3. Graph equations, functions, inequalities.
4. Solve applied problems using mathematical or statistical methods.
5. Prove identities and theorems.
6. Apply definitions, notation and properties of mathematical concepts.

REQUIRED COURSES		UNITS
MATH 1A	Single Variable Caculus I - Early Transcendentals	4
MATH 1B	Single Variable Calculus II - Early Transcendentals	4
MATH 1C	Multivariable Calculus	4
MATH 3	Linear Algebra	3

Complete one course from the following:

MATH 25	Finite Mathematics ***OR***	3
STAT 1	Introduction to Statistical Methods ***OR***	4
MATH 10	Liberal Arts Mathematics ***OR***	3
MATH 51	Plane Geometry ***OR***	3
MATH 55	History of Algebra	3

TOTAL UNITS REQUIRED FOR DEGREE MAJOR 18-19

Students earning an AA/AS degree must complete a minimum of 18 units of General Education requirements, the multicultural graduation requirement, and the health requirement, in addition to the program units listed here. Students must complete a total of 60 degree applicable units to earn an AA or AS. Please see your counselor for additional information.

COURSES

MATH-1A **4 UNITS**

Single Variable Calculus I - Early Transcendentals

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
C-ID: MATH 210
72 LECTURE HOURS

A first course in differential and integral calculus of a single variable: functions; limits and continuity; techniques and applications of differentiation and integration; Fundamental Theorem of Calculus. Primarily for Science, Technology, Engineering and Math Majors. Grades are P/NP Option.

Prerequisite(s): MATH-20; MATH-21; or satisfactory score on the mathematics placement test.

MATH-1B **4 UNITS**

Single Variable Calculus II - Early Transcendentals

TRANSFERABLE TO CSU AND UC
C-ID: MATH 220
72 LECTURE HOURS

A second course in differential and integral calculus of a single variable: integration; techniques of integration; infinite sequences and series; polar and parametirc equations; applications of integration. Primarily for science, technology, engineering and mathematics majors. (L) Grades are P/NP Option.

Prerequisite(s): MATH-1A

MATH-1C **4 UNITS**

Multivariable Calculus

TRANSFERABLE TO CSU AND UC
C-ID: MATH 230
72 LECTURE HOURS

This course covers vector valued functions, calculus of functions of more than one variable, partial derivatives, multiple integration, Green's theorem, Stokes' theorem, and the divergence theorem. (L) Grades are P/NP Option.

Prerequisite(s): MATH-1B

MATH-2 **3 UNITS**

Ordinary Differential Equations

TRANSFERABLE TO CSU AND UC
C-ID: MATH 240
54 LECTURE HOURS

The course is an introduction to ordinary differential equations including both quantitative and qualitative methods as well as applications from a variety of disciplines. Introduces the theoretical aspects of differential equations, including establishing when solutions(s) exist, and techniques for obtaining solutions, including, series solutions, and singular points, Laplace transforms and linear systems. (L,C) Grades are P/NP Option.

Prerequisite(s): MATH-1B

MATH-3 **3 UNITS**

Linear Algebra

TRANSFERABLE TO CSU AND UC
C-ID: MATH 250
54 LECTURE HOURS

The course develops the techniques and theory needed to solve and clasify systems of linear equations. Solution techniques include row operations, Gaussian elimination, and matrix algebra. Investigates the properties of vectors in two and three dimensions, leading to the notion of an abstract vector space. Vector space and matrix theory are presented including topics such as inner products, norms, orthogonality, eigenvalues, eigenspaces, and linear transformations. Selected applications of linear algebra are included. (L) Grades are P/NP Option.

Prerequisite(s): MATH-1B

MATH-9 **4 UNITS**

Calculus for Business, Social and Life Sciences

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
C-ID: MATH 140
72 LECTURE HOURS

Topics of calculus including differentiation, integration, graphs, limits, and rates. Applications from economics, business, life science, and behavioral science.

Prerequisite(s): MATH-52 or MATH-52B or a satisfactory score on the mathematics placement test.

MATH-10 **3 UNITS**

Liberal Arts Mathematics

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

Designed for students majoring in areas other than science, mathematics, or business to give appreciation and insight into structure and applications of mathematics. Some typical topics, to be chosen by the instructor may include probability and statistics, sequences and series, population growth, graph theory, geometry and topology, number theory, history of mathematics, finance mathematics, voting methods and apportionment. Grades are P/NP Option.

Prerequisite(s): MATH-52 or MATH-52B or MATH 59 or placement.

MATH-15 **3 UNITS**

Concepts and Structures of Mathematics

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
C-ID: MATH 120
54 LECTURE HOURS

This course focuses on the development of quantitative reasoning skills through in-depth, integrated explorations of topics in mathematics, including real number systems and subsystems. Emphasis is on comprehension and analysis of mathematical concepts and applications of logical reasoning. Grades are P/NP Option.

Prerequisite(s): MATH-52 or MATH-52B or MATH-59

MATH-16 **3 UNITS**

Concepts and Structures of Mathematics

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
54 LECTURE HOURS

Designed for students who plan to become elementary school teachers. Problem-solving, probability and statistics, measurement and the metric system, and geometry. Essays on topics of current interest to the teaching profession, class presentations, and a study of techniques and materials used in today's elementary school classroom may also be included. Grades are P/NP Option.

Prerequisite(s): MATH-15

MATH-20 **4 UNITS**

College Algebra

TRANSFERABLE TO CSU AND UC
C-ID: MATH 151
72 LECTURE HOURS

College level course in algebra for majors in science, technology, engineering and mathematics. Topics include polynomial, rational, radical, exponential, absolute value and logarithmic functions, systems of equations, theory of polynomial equations and analytic geometry. (L,M)

Prerequisite(s): MATH-52 or MATH 52B or a satisfactory score on the mathematics placement test.

MATH-21 **4 UNITS**

Plane Trigonometry

TRANSFERABLE TO CSU
C-ID: MATH 851
72 LECTURE HOURS

The study of trigonometric functions, their inverses and their graphs, identities and proofs related to trigonometric expressions, trigonometric equations, solving right triangles, solving triangles using the Law of Cosines and the Law of Sines, polar coordinates, and introduction to vectors. (L,M)

Prerequisite(s): MATH-52 or MATH 52B or MATH 59 or a satisfactory score on the mathematics placement test.

MATH-25 **3 UNITS**

Finite Mathematics

TRANSFERABLE TO CSU AND UC
C-ID: MATH 130
54 LECTURE HOURS

Linear functions, systems of linear equations and inequalities, matrices, linear programming, mathematics of finance, sets and Venn diagrams, combinatorial techniques and an introduction to probability. Applications in business, economics and social sciences. Grades are P/NP Option.

Prerequisite(s): MATH-52 or MATH-52B or MATH-59

MATH-51 **3 UNITS**

Plane Geometry

54 LECTURE HOURS

Introductory plane geometry, the study of geometric relationships in the plane from an inductive and deductive viewpoints. Satisfies the university admission requirement of high school plane geometry.

Prerequisite(s): MATH-50

MATH-52 **4 UNITS**

Intermediate Algebra

72 LECTURE HOURS

To prepare students to take transfer-level mathematics or statistics courses. Topics include: real and complex numbers; factoring of polynomials; rational and radical expressions and equations; functions (general); linear, quadratic, exponential, and logarithm functions and equations; graphs; distance, midpoint, and circles in the Cartesian plane; application problems. Grades are P/NP Option.

Prerequisite(s): MATH-101 or MATH-101B or qualifying score on the mathematics placement test.

MATH-55 **3 UNITS**

History of Algebra

54 LECTURE HOURS

A history of algebra from ancient times up to the 18th century. Introduction to a variety of number systems; the operations of addition, subtraction, multiplication, and division, and the finding of square roots; sets and logic; rational, irrational, real, and complex numbers; Greek number theory; linear, quadratic, and cubic equations; and applications (including proportions, variation, compound interest, exponential growth and decay). Ideas and methods from different parts of the world and at different times are mainly presented in their historical context. This course satisfies the AA and AS degree requirement, but it does not satisfy the prerequisite for a Transferable mathematics or statistics course. Grades are P/NP Option.

MATH-58 **3 UNITS**

Mathematics for Everyday Living

54 LECTURE HOURS

Interpretation of and reasoning with quantitative information. Coverage of logic; units analysis; uses and abuses of percentages, ratios, and indices; financial management; and statistics. This course satisfies the AA and AS degree requirement but does not satisfy the prerequisite for a Transferable math course. Grades are P/NP Option.

Prerequisite(s): MATH-101 or MATH-101B or by placement.

MATH-59 **4 UNITS**

Foundations of Algebra

63 LECTURE HOURS
27 LAB HOURS

This course consists of elements of beginning and intermediate algebra necessary for long-term engagement in math-intensive fields. Topics include polynomial, rational, radical, exponential, and logarithmic expressions, equations, functions, graphs, modeling and applications; polynomial, rational, and radical inequalities; systems of equations and conic sections; algebra of functions; and complex numbers. Grades are P/NP Option.

MATH-101 **4 UNITS**

Elementary Algebra

72 LECTURE HOURS

To prepare students to take Intermediate Algebra. Topics include: real numbers; algebraic expressions; linear equations and systems of linear equations; linear inequalities in one and two variables (simple, compound, system); scientific notation; graphs and equations of lines in the Cartesian plane; introduction to functions and their graphs; absolute value function and equations; application problems. Grades are P/NP Option.

Prerequisite(s): MATH-111 or qualifying score on the mathematics placement exam.

Music

Classes with "R" can be taken a total of four times but are subject to Family of Classes restrictions on page 155-156.

MUSIC

ASSOCIATE IN ARTS FOR TRANSFER

The Associate in Arts in Music for Transfer degree prepares students to transfer to a California State University to seek a Bachelor of Arts in General Music degree. Completion of this degree with a minimum GPA of 2.0 guarantees admission to the CSU System. Students must audition with an instrument of choice or voice to be admitted into the program to take the applied skills course. If their music performance skill is at a pre-college level, they may enroll in remedial course such as Elementary/Intermediate Piano, Voice, or Guitar and reaudition later. These courses, however, will be regarded as remedial and will not transfer. It should also be noted that the Associate in Arts in Music for Transfer does not guarantee admission to any specific campus of CSU or admittance to major in music after the transfer. Students will need to audition to be accepted as a music major at CSU or any other university. Students intending to transfer to seek a Bachelor of Music or Bachelor of Music Education degree will need additional courses, and should select AA in Music.

Pursuant to SB 1440, the Associate in Arts for Transfer is intended for students who plan to complete a bachelor's degree in Music at a CSU campus. Students completing an AA-T degree are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that does accept the AA-T will be required to complete no more than 60 units after transfer to earn a bachelor's degree. The Associate in Arts in Music for Transfer degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system.

In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

To earn this AA-T degree, students must meet the following Associate Degree for Transfer requirements (pursuant to SB1440 law):

- Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University.
- The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education Breadth Requirements.
- A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
- Obtainment of a minimum grade point average of 2.0.
- Earn a grade of "C" or better in all courses required for the major or area of emphasis.

Students who complete this program should be able to:

1. Analyze a short musical work by applying intermediate-level music theory, including analysis of melody, harmony, rhythm and meter, and form, demonstrating skills and knowledge acquired over 3 semesters of Music Theory study.
2. Aurally identify intervals, rhythms, voice-leading and harmonic progressions by taking dictation and writing appropriate muscial notation, and sight read melodies of difficulty level covered in the third semester of Musicianship.

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3. Publically perform on their major instrument or voice a solo repertoire appropriate for college sophomores with technical facility and artistry.
4. Play or sing in an ensemble with technical ease, blend, and expressive artistry, demonstrating culmination of four semesters of study in improved reading ability, listening skills, and performing skills.
5. Demonstrate piano keyboard skills acquired in three semesters of study, including sight reading, scales and arpeggios, and harmonic progressions in various keys and modes.

REQUIRED COURSES:

MUSIC 1A	Music Theory I	3
MUSIC 1B	Music Theory II	3
MUSIC 1C	Musicianship I	1
MUSIC 1D	Theory Musicianship II	1
MUSIC 2A	Music Theory III	3
MUSIC 2C	Musicianship III	1

Applied Skills Requirement. Complete one course four times from the following:

MUSIC 30BR	Applied Skills: Brass ***OR***	1
MUSIC 30DR	Applied Skills: Percussion ***OR***	1
MUSIC 30ER	Applied Skills: Strings ***OR***	1
MUSIC 30GR	Applied Skills: Guitar ***OR***	1
MUSIC 31R	Applied Skills: Piano ***OR***	1
MUSIC 32R	Applied Skills: Voice	1

Ensemble Requirements: Complete one course four times from the following: Brass, Percussion and Woodwind majors shall select Symphonic Band or Community Jazz Ensemble. Voice majors shall select choral ensembles. Composition major shall select a combination of instrumental and choral ensembles.

MUSIC 28R	Community Jazz Ensemble ***OR***	1
MUSIC 33R	Chamber Singers ***OR***	1
MUSIC 34R	Concert Choir ***OR***	1
MUSIC 43R	Symphonic Band ***OR***	1
MUSIC 44R	Instrumental Chamber Ensemble ***OR***	1
MUSIC 47R	Chamber Orchestra	1

List A: Complete three to four units from the following:

MUSIC 1E	Keyboard Harmony I	1
MUSIC 2E	Keyboard Harmony II	1
MUSIC 8A	Music History I	3
MUSIC 8B	Music History II	3
MUSIC 41A	Elementary Piano	1

TOTAL UNITS REQUIRED FOR DEGREE MAJOR 23-24

Students earning an AA-T/AS-T degree must complete 60 semester units of coursework eligible for transfer to the CSU including the CSU GE-B or IGETC (CSU version), all courses in the major with "C" or better or "P" (pass) grades, and achieve a minimum transferable cumulative GPA of 2.0.

MUSIC

ASSOCIATE IN ARTS

Students who complete this program should be able to:

1. Analyze a short musical work by applying intermediate-level music theory.
2. Demonstrate basic musicianship skills in sight-reading, melodic, and harmonic dictation.
3. Publicly perform selected solo and ensemble repertoire, appropriate for college sophomores, in their major instrument or voice with technical facility and artistry.

REQUIRED COURSES UNITS

MUSIC 1A	Elementary Harmony	3
MUSIC 1B	Elementary Harmony	3
MUSIC 1C	Theory Skills	1
MUSIC 1D	Theory Skills	1
MUSIC 2A	Advanced Harmony	3
MUSIC 2B	Advanced Harmony	3
MUSIC 2C	Advanced Theory Skills	1
MUSIC 2D	Theory Skills	1
MUSIC 8A	Music History I	3
MUSIC 8B	Music History II	3

TOTAL UNITS REQUIRED FOR DEGREE MAJOR 22

Students earning an AA/AS degree must complete a minimum of 18 units of General Education requirements, the multicultural graduation requirement, and the health requirement, in addition to the program units listed here. Students must complete a total of 60 degree applicable units to earn an AA or AS. Please see your counselor for additional information.

COURSES

MUSIC-1 **3 UNITS**

Music Fundamentals

TRANSFERABLE TO CSU AND UC
C-ID: MUSIC 110
54 LECTURE HOURS

An introduction to the notation and primary elements of tonal music, including staff notation in treble and bass clefs, rhythm and meter, basic properties of sound, intervals, diatonic scales and triads, and diatonic chords. Students will experience applying the skills learned to basic singing and keyboard playing. Suitable for both music majors and non-majors who have no previous experience in reading or playing music notation.

Limitations on Enrollment: Course not open for credit to students with credit in ECE-21

MUSIC-1A **3 UNITS**

Music Theory I

TRANSFERABLE TO CSU AND UC
C-ID: MUS 120
54 LECTURE HOURS

In this course, students will review the fundamentals of music, including notation, rhythm and meter, basic properties of sound, intervals, scales and chords, and incorporate and develop those concepts through guided composition and analysis. Complete cadential formulae, phrase structure analysis, chord function theory, and four-part voice-leading principles will be covered, using tonal music examples from history and global culture. History and social context of the above concepts will be discussed. Development of skills in handwritten notation is expected. Required of all music majors and minors. Course offered Fall semester only. (L)

Co-requisite: MUSIC-1C

Advisory: MUSIC-41A Elementary Piano is highly recommended.

MUSIC-1B **3 UNITS**

Music Theory II

TRANSFERABLE TO CSU AND UC
C-ID: MUS 130
54 LECTURE HOURS

This course incorporates concepts from Music 1A. Through guided composition and analysis, the course will include fundamental two voice contrapuntal principles and chromatic chord functions and voice leading. Required of all music majors and minors. (L)

Prerequisite(s): MUSIC-1A; MUSIC-1C

Co-requisite: MUSIC-1D

Advisory: Concurrent enrollment in MUSIC-1E is highly recommended.

Limitations on Enrollment: Offered Spring semester only.

MUSIC-1C **1 UNIT**

Musicianship I

TRANSFERABLE TO CSU AND UC
C-ID: MUS 125
9 LECTURE HOURS
27 LAB HOURS

This course applies and develops the rhythmic, melodic, and harmonic materials of Music Theory I through ear training, sight singing, analysis, and dictation. Required of all music majors and minors.

Co-requisite: MUSIC- 1A

Advisory: MUSIC-41A is highly recommended.

Limitations on Enrollment: Course offered Fall semester only.

MUSIC-1D **1 UNIT**

Theory Musicianship II

TRANSFERABLE TO CSU AND UC
C-ID: MUS 135
9 LECTURE HOURS
27 LAB HOURS

This course applies and develops the rhythmic, melodic, and harmonic materials of Music Theory II through ear training, sight singing, Continuation of Music 1C. Required of all music majors and minors.

Prerequisite(s): MUSIC-1A; MUSIC-1C

Co-requisite: MUSIC-1B

Limitations on Enrollment: Course offered Spring semester only.

MUSIC-1E **1 UNIT**

Keyboard Harmony I

TRANSFERABLE TO CSU AND UC
C-ID: MUS 171
9 LECTURE HOURS
27 LAB HOURS

In this course students refine and further develop beginning keyboard skills. This includes piano technique, major scales and arpeggios, sight-reading, chord progressions and harmonization and transposition skills, as encountered in upper-beginning/early intermediate piano music. The emphasis is on keyboard application of music theory. The course prepares music major students toward piano proficiency exams required at transferring universities.

Prerequisite(s): MUSIC-41A or by placement.

MUSIC-2A **3 UNITS**

Music Theory III

TRANSFERABLE TO CSU AND UC
C-ID: MUS 140
54 LECTURE HOURS

This course incorporates the concepts from Music Theory II through guided composition and analysis. The course will include more advanced chromatic chord functions and voice-leading. Required of all music majors. Course offered Fall semester only. (L)

Prerequisite(s): MUSIC-1B; MUSIC-1D

Co-requisite: MUSIC-2C

Advisory: Concurrent enrollment in MUSIC-2E Keyboard Harmony II is highly recommended.

MUSIC-2B **3 UNITS**

Music Theory IV

TRANSFERABLE TO CSU AND UC
C-ID: MUS 150
54 LECTURE HOURS

This course incorporates the concepts from Music Theory III. Through guided composition and analysis, the course will include late Romantic, neo-Romantic, and Modernist harmonic and rhythmic structures and techniques. Required of all music majors.

Prerequisite(s): MUSIC-2A; MUSIC-2C

Co-requisites: MUSIC-2D

Limitations on Enrollment: Course offered Spring semester only

MUSIC-2C **1 UNIT**

Musicianship III

TRANSFERABLE TO CSU AND UC
C-ID: MUS 145
9 LECTURE HOURS
27 LAB HOURS

This course applies and develops the rhythmic, melodic, and harmonic materials of Music Theory III through ear-training, sight-singing, analysis, and dictation. Required of all music majors. Course offered Fall semester only.

Prerequisite(s): MUSIC-1B; MUSIC-1D

Co-requisite: MUSIC-2A

MUSIC-2D **1 UNIT**

Musicianship IV

TRANSFERABLE TO CSU AND UC
C-ID: MUS 155
9 LECTURE HOURS
27 LAB HOURS

This course applies and develops the rhythmic, melodic, and harmonic materials of Music Theory IV through ear training, sight singing, analysis, and dictation. Required of all music majors.

Prerequisite(s): MUSIC-2C

Co-requisite: MUSIC-2B

MUSIC-2E **1 UNIT**

Keyboard Harmony II

TRANSFERABLE TO CSU AND UC
C-ID: MUS 172
9 LECTURE HOURS
27 LAB HOURS

This course will allow students to refine and develop beginning keyboard skills. Piano technique, major and minor scales and arpeggios, sight-reading, expanded chord progressions, and harmonization and transposition skills are encountered in intermediate piano music. The course prepares students toward piano proficiency exams required at transferring universities.

Prerequisite(s): MUSIC-1E or by placement.

MUSIC-3 **3 UNITS**

Music Appreciation

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

A survey of art music in western civilization. Topics include but are not limited to elements of music, basic musical forms, music periods,, and the role of music and musicians in the western world. (L) Grades are P/NP Option.

MUSIC-8A **3 UNITS**

Music History I

TRANSFERABLE TO CSU AND UC
C-ID: MUS 105
54 LECTURE HOURS

This course is a survey of music history and literature from antiquity to 1750, including cultural, intellectual and social influences, and provides an in-depth examination of the development of Western European music through analysis and synthesizing of historical details and stylistic elements of the musical trends of the era. (L)

MUSIC-8B **3 UNITS**

Music History II

TRANSFERABLE TO CSU AND UC
C-ID: MUS 106
54 LECTURE HOURS

This course is a survey of music history and literature from 1750 to the present, including cultural, intellectual and social influences. This course provides an in-depth examination of the development of Western European music through analysis and synthesizing of historical details and stylistic elements of the musical trends of the era. (L)

MUSIC-12 **3 UNITS**

Jazz Appreciation

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

General survey of jazz from its original and early development to present day; extensive listening to recorded and live performance supports the lecture material.

MUSIC-15 **3 UNITS**

Popular Music in The United States

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

A survey of popular music in the United States from about 1850 to present. Covers American Civil War songs, ragtime, blues, jazz, songwriting, musical theater, country music, Latin music, rock, and current trends. (L)

MUSIC-16 **3 UNITS**

World Music

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

This survey of world music explores how music is used as a form of human expression in various cultures. Musical instruments, forms and, and the roles and functions of music in traditional and contemporary societies in various cultures throughout the world will be studied. (L) Grades are P/NP Option.

MUSIC-17 **3 UNITS**

Music As Culture

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

A search for a better understanding of what gives music meaning. Explorations into multiple genres, including classical, rock, rap, folk, Latino and World Music with an emphasis on the nature of sound, meaning, diversity, performance and value judgements.

MUSIC-18 **3 UNITS**

Rock Music History and Culture

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

A survey of Rock music history with emphasis on its importance to culture and popular music. Covers the roots of rock, emergence and early . The Beatles/British Invasion, San Francisco, Folk Rock, Soul and Motown, Jazz Rock, Art Rock, Mainstream, Heavy Metal, Dance, Rap and Hip-Hop culture, Alternative and Progressive Rock. (L)

MUSIC-26 **3 UNITS**

Musical Theatre Workshop

TRANSFERABLE TO CSU
162 LAB HOURS

Fundamentals of musical theatre performance; singing, acting, dancing, orchestra, and technical stagework. Students may specialize in area of interest. Works to be selected from various periods and . Participation in Yuba College production is required.

Limitations on Enrollment: Not open for credit to students with credit in THART 26.

MUSIC-28R **1 UNIT**

Community Jazz Ensemble

TRANSFERABLE TO CSU AND UC
C-ID: MUS 185
9 LECTURE HOURS
27 LAB HOURS
REPEATABLE THREE TIMES ONLY

This course is for the study, rehearsal, and public performance of jazz ensemble literature, with an emphasis on the development of skills needed to perform within a specialized ensemble. Different literature will be studied each semester. The course is repeatable for credit the maximum times allowable by regulation. Grades are P/NP Option

Entrance Requirement(s): Auditions required. (Students may enroll in the course but may be dropped depending on the result of audition.)

MUSIC-30AR **1 UNIT**

Applied Skills: Woodwinds

TRANSFERABLE TO CSU AND UC
C-ID: MUS 160
9 LECTURE HOURS
27 LAB HOURS
REPEATABLE THREE TIMES ONLY

This course consists of individualized study of the appropriate techniques and repertoire for a woodwind instrument. The emphasis is on the progressive improvement of technical facility, musicianship, expressive interpretation, and other skills necessary for solo performance. For music majors with a concentration in either flute, oboe, clarinet, saxophone or bassoon.

Entrance Requirement(s): Auditions required. (Students may enroll in the course but may be dropped depending on the result of audition.)

MUSIC-30BR **1 UNIT**

Applied Skills: Brass

TRANSFERABLE TO CSU AND UC
C-ID: MUS 160
9 LECTURE HOURS
27 LAB HOURS
REPEATABLE THREE TIMES ONLY

This course consists of individualized study of the appropriate techniques and repertoire for a brass instrument through private instruction. The emphasis is on the progressive improvement of technical facility, musicianship, expressive interpretation, and other skills necessary for solo performance. For music majors with a concentration in either trumpet, French horn, trombone, euphonium or tuba.

Entrance Requirement(s): Audition Required. (Students may enroll in the course, but may be dropped based on the audition result.)

Advisory Concurrent participation in an appropriate ensemble and enrollment in appropriate-level major preparation course from the MUSIC 1A-2E sequence is strongly recommended.

MUSIC-30CR **1 UNIT**

Applied Skills: Composition

TRANSFERABLE TO CSU AND UC
9 LECTURE HOURS
27 LAB HOURS

This course consists of individualized study of composition and music arranging techniques through private and small group instruction. The emphasis is on the progressive development of skills needed to create transcriptions, arrangements and original compositions.

Advisory: Concurrent participation in an appropriate ensemble and enrollment in appropriate level major preparation courses from the MUSIC 1A-2E sequence is highly recommended.

MUSIC-30DR **1 UNIT**

Applied Skills: Percussion

TRANSFERABLE TO CSU AND UC
C-ID: MUS 160
9 LECTURE HOURS
27 LAB HOURS

This course consists of individualized study of the appropriate techniques and repertoire for percussion instruments through private instruction. The emphasis is on the progressive improvement of technical facility, musicianship, expressive interpretation, and other skills necessary for solo performance. For music majors with a concentration in percussion.

Advisory: Concurrent participation in an appropriate ensemble and enrollment in appropriate level major preparation courses from the MUSIC 1A-2E sequence is highly recommended.

MUSIC-30ER **1 UNIT**

Applied Skills: Strings

TRANSFERABLE TO CSU AND UC
C-ID: MUS 160
9 LECTURE HOURS
27 LAB HOURS

This course consists of individualized study of the appropriate techniques and repertoire for a string instrument through private instruction. The emphasis is on the progressive improvement of technical facility, musicianship, expressive interpretation, and other skills necessary for solo performance. For music majors with a concentration in either violin, viola, cello or string bass.

Advisory: Concurrent participation in an appropriate ensemble and enrollment in appropriate level major preparation courses from the MUSIC 1A-2E sequence is highly recommended.

Entrance Requirement(s): Audition required.

MUSIC-30GR **1 UNIT**

Applied Skills: Classical Guitar

TRANSFERABLE TO CSU AND UC
C-ID: MUS 160
9 LECTURE HOURS
27 LAB HOURS

This course consists of individualized study of the appropriate techniques and repertoire for classical guitar through private instruction. The emphasis is on the progressive improvement of technical facility, musicianship, expressive interpretation, and other skills necessary for solo performance. For music majors with a concentration in guitar.

Entrance Requirement(s): Audition Required: (Students may enroll in the course, but may be dropped based on the audition result).

Advisory: Concurrent participation in an appropriate ensemble and enrollment in appropriate level major preparation courses from the MUSIC 1A-2E sequence is highly recommended.

MUSIC-31R **1 UNIT**

Applied Skills-Piano

TRANSFERABLE TO CSU AND UC
C-ID: MUS 160
9 LECTURE HOURS
27 LAB HOURS

Individualized instruction in advanced piano techniques, performance skills, and repertoire. The emphasis is on the progressive development of skills needed for solo performance. Public performance is required. Achievement is evaluated through a juried performance. Audition is required. For music majors with a piano concentration.

Entrance Requirement(s): Auditions required. (Students may enroll in the course but may be dropped depending on the result of audition.)

Advisory: The student must already possess basic music reading skills, fundamental technical skills such as the ability to play scale with correct fingering and left-right hand coordination, and some prior experience in playing Intermediate solo piano literature. Students without these skills should take elementary or Intermediate piano classes first to gain proficiency level before taking this course.

MUSIC-32R **1 UNIT**

Applied Skills: Voice

TRANSFERABLE TO CSU AND UC
C-ID: MUS 160
9 LECTURE HOURS
27 LAB HOURS

Individualized instruction in vocal techniques, performance skills, and vocal repertoire. The emphasis is on the progressive development of skills needed for solo performance. Public performance is required. Achievement is evaluated through a juried performance.

Entrance Requirement(s): Audition Required. (Students may enroll in the course, but may be dropped based on the audition result.)

Advisory: The student must already possess basic music reading skills, fundamental singing skills such as matching pitches and breath technique, and some prior experience in solo or ensemble singing. Students without these skills should take elementary voice classes first to gain the proficiency level before taking this course.

MUSIC-33R **1 UNIT**

Chamber Singers

TRANSFERABLE TO CSU AND UC
C-ID: MUS 185
36 LECTURE HOURS
54 LAB HOURS

This course is for the study, rehearsal, and public performance of literature appropriate to the chamber vocal ensemble, with an emphasis on the development of skills needed to perform within a chamber vocal ensemble. Different literature of sacred and/or secular music from various historical and cultural will be studied each semester. The course is repeatable for credit the maximum times allowable by regulation. Audition is required. Grades are P/NP Option.

Entrance Requirement(s): Audition required. (Students may enroll in the course but may be dropped subject to the audition result.)

MUSIC-34R **1 UNIT**

Concert Choir

TRANSFERABLE TO CSU AND UC
9 LECTURE HOURS
27 LAB HOURS

This course is for the study, rehearsal and public performance of the standard choral literature from various style periods and cultures, with an emphasis on the development of skills needed to perform within a large ensemble. Different literature will be studied each semester. The course is repeatable for credit the maximum times allowable by regulation. Grades are P/NP Option.

Entrance Requirement(s): Audition required. (Students may enroll in the course but may be dropped depending on the result of audition.)

MUSIC-35 **V1-2 UNITS**

Beginning Guitar

TRANSFERABLE TO CSU AND UC
9 LECTURE HOURS
27 LAB HOURS

Class instruction in basic guitar technique with an emphasis on melody, music reading, and ensemble performance. Students must furnish their own guitars. Grades are P/NP Option.

MUSIC-36A **1 UNIT**

Intermediate Guitar I

TRANSFERABLE TO CSU AND UC
9 LECTURE HOURS
27 LAB HOURS

Intermediate guitar technique with an emphasis on expanded techniques, chordal exploration, and ensemble performance. Students must furnish their own guitars. Grades are P/NP Option.

Prerequisite(s): MUSIC-35 by placement.

MUSIC-36B **1 UNIT**

Intermediate Guitar II

TRANSFERABLE TO CSU
9 LECTURE HOURS
27 LAB HOURS

Continuation of intermediate guitar techniques with an emphasis on optimal fingering principles, left- and right-hand techniques, chordal exploration, and ensemble performance. Students must furnish their own guitars. Grades are P/NP Option.

Prerequisite(s): MUSIC-36A

MUSIC-37A **1 UNIT**

Indian Music Ensemble I

TRANSFERABLE TO CSU AND UC
9 LECTURE HOURS
27 LAB HOURS

Students will receive hands-on musical instruction in North Indian music on instruments such as Tabla, Sitar, Harmonium, and/or vocals. Students are welcome to bring their own non-Indian instruments (e.g. guitar, violin, flute, etc.). No prior musical experience is necessary. This course will serve as an introduction to Indian music. Topics covered will include instrument maintenance, tuning, exercises, and basic theoretical concepts. Grades are P/NP Option.

MUSIC-37B **1 UNIT**

Indian Music Ensemble II

TRANSFERABLE TO CSU AND UC
9 LECTURE HOURS
27 LAB HOURS

Students will receive hands-on musical instruction in North Indian music on instruments such as Tabla, Sitar, Harmonium, and/or vocals. Students are welcome to bring their own non-Indian instruments (e.g. guitar, violin, flute, etc.). Topics discussed will include the theory of Indian music, basic playing techniques, and methods for practicing. Students will hear live demonstrations of Indian music, as well as video clips of important musicians such as Ravi Shankar, Ali Akbar Khan, and others. Grades are P/NP Option.

Prerequisite(s): MUSIC-37A

MUSIC-37C **1 UNIT**

Indian Music Ensemble III

TRANSFERABLE TO CSU AND UC
9 LECTURE HOURS
27 LAB HOURS

Students will receive hands-on musical instruction in North Indian music on instruments such as Tabla, Sitar, Harmonium, and/or vocals. Students are welcome to bring their own non-Indian instruments (e.g. guitar, violin, flute, etc.). An emphasis will be placed on understanding the aspects of Raga (melody) and Tala (rhythm cycles). Topics discussed will include the many types of traditional compositions as well as methods for improvisation. Grades are P/NP Option.

Prerequisite(s): MUSIC-37B

MUSIC-40A **1 UNIT**

Elementary Voice I

TRANSFERABLE TO CSU AND UC
9 LECTURE HOURS
27 LAB HOURS

Group instruction in elementary vocal techniques, including tone production, breathing, diction, and basic music reading skills. The students will develop these techniques and performance anxiety management through learning beginning-level songs and performing them for each other in class. Grades are P/NP Option.

MUSIC-40B **1 UNIT**

Elementary Voice II

TRANSFERABLE TO CSU AND UC
9 LECTURE HOURS
27 LAB HOURS

Group instruction in elementary vocal techniques, including tone production, breathing, diction, and basic music reading skills. The students will further develop these techniques and performance anxiety management as continuation from MUSIC 40A to gain more facility and awareness in performing art songs and musical theater type repertoire for each other in class. Grades are P/NP Option.

Prerequisite(s): MUSIC-40A or by placement.

MUSIC-40C **1 UNIT**

Intermediate Voice I

TRANSFERABLE TO CSU AND UC
9 LECTURE HOURS
27 LAB HOURS

Group instruction in intermediate vocal techniques, including breathing, body alignment, phonation, resonation and articulation. The course will also cover music reading including solfege, efficient practice habits, evaluation of vocal problems, textual analysis and expressive interpretation. Students will apply their knowledge and skills gained in the class to learning and performing art songs including two in foreign languages and musical theater type repertoire in front of an audience with increasing confidence, ease and aesthetic sensitivity. Grades are P/NP Option.

Prerequisite(s): MUSIC-40B or by placement.

MUSIC-40D **1 UNIT**

Intermediate Voice II

TRANSFERABLE TO CSU AND UC
9 LECTURE HOURS
27 LAB HOURS

Group instruction in intermediate vocal techniques. As continuation of MUSIC 40C, students will develop a thorough understanding of vocal mechanisms and skills in order to interpret problems in singing and to extrapolate appropriate solutions. The course also places emphasis on appreciation and performance of various vocal literature through analysis, interpretation and public performances. Grades are P/NP Option.

Prerequisite(s): MUSIC-40C or by placement.

MUSIC-41A **1 UNIT**

Elementary Piano I

TRANSFERABLE TO CSU AND UC
9 LECTURE HOURS
27 LAB HOURS

This course is a continuation from MUS 41A in beginning piano skills. It includes basic finger techniques beyond five-finger patterns, pedal technique, sight reading, and solo repertoire as they are encountered in beginning piano music. An emphasis is on developing musical skills necessary for playing level-appropriate repertoire.

MUSIC-41B **1 UNIT**

Elementary Piano II

TRANSFERABLE TO CSU AND UC
9 LECTURE HOURS
27 LAB HOURS

Elementary piano, covering the fundamentals of keyboard theory and technique, reading, solo and ensemble repertoire, and creative activities.

Prerequisite(s): MUSIC-41A or by placement.

MUSIC-42A **1 UNIT**

Intermediate Piano

TRANSFERABLE TO CSU
9 LECTURE HOURS
27 LAB HOURS

Group piano class for students with at least one year of concentrated piano study. Emphasis on technique, repertoire, and sight reading skills. (L)

Prerequisite(s): MUSIC-41B or approval of the Instructor upon Audition. Students who have studied piano previously at high school or through private study, and are judged to have achieved the equivalent skill level may audition to enroll at this level without having taken the pre-requisite course.

MUSIC-42B **1 UNIT**

Intermediate Piano II

TRANSFERABLE TO CSU
9 LECTURE HOURS
27 LAB HOURS

Group piano class for students with at least one year of concentrated piano study. Emphasis on technique, repertoire, and sight reading skills. (L)

Prerequisite(s): MUSIC-42A

MUSIC-43R **1 UNITS**

Symphonic Band

TRANSFERABLE TO CSU AND UC
C-ID: MUS 180
18 LECTURE HOURS
54 LAB HOURS
REPEATABLE THREE TIMES ONLY

This course is for the study, rehearsal, and public performance of symphonic band literature, with an emphasis on the development of skills needed to perform within an ensemble. Different literature will be studied each semester. Grades are P/NP Option.

Entrance Requirement(s): Audition Required. (Students may enroll in the course before the audition, but may be dripped based on the audition result).

MUSIC-44R **1 UNIT**

Chamber Ensemble

TRANSFERABLE TO CSU AND UC
C-ID: MUS 185
9 LECTURE HOURS
27 LAB HOURS
REPEATABLE THREE TIMES ONLY

This course is for the study, rehearsal, and public performance of literature appropriate to the ensemble, with an emphasis on the development of skills needed to perform within a chamber ensemble. Different literature will be studied each semester. Choice of ensemble is based on each student's identified major instrument or voice. The course is repeatable for credit the maximum times allowable by regulation. Grades are P/NP Option.

Entrance Requirement(s): Audition Required. (Students may enroll in the course before the audition, but may be dripped based on the audition result).

MUSIC-47R **1 UNIT**

Chamber Orchestra

TRANSFERABLE TO CSU
C-ID: MUS 180
9 LECTURE HOURS
27 LAB HOURS
REPEATABLE THREE TIMES ONLY

This course is for the study, rehearsal, and public performance of literature appropriate to the chamber orchestra, with an emphasis on the development of skills needed to perform within a large ensemble. Different literature will be studied each semester. The course is repeatable for credit the maximum times allowable by regulation. Grades are P/NP Option.

Entrance Requirement(s): Audition required. (Students may enroll in the course, but may be dripped if audition requirements are not met.

MUSIC-540 **0 UNITS**

Vocal Techniques

6 LECTURE HOURS
20 LAB HOURS

Instruction in vocal techniques, tone production, breathing, and diction, and their application to the art song and musical theatre repertoires, appropriate to student age and abilities. This is a noncredit course primarily but not exclusively intended for older adults as part of a life-long education providing opportunities for personal growth and development, community involvement, and skills for mental and physical well-being through creative expression of music making. Grades are Satisfactory Progress (Noncredit).

Entrance Requirement(s): Audition is required to determine the technical level of the student.

MUSIC-543 **0 UNITS**

Symphonic Band

15-18 LECTURE HOURS
50-54 LAB HOURS

This course is for the study, rehearsal, and public performance of symphonic band literature, with an emphasis on the development of skills needed to perform within an ensemble. Different literature will be studied each semester. This is a non-credit course primarily but not exclusively intended for older adults as part of a lifelong education, providing opportunities for personal growth and development, community involvement, and skills for mental and physical well-being through creative expression of music making. Grades are Satisfactory Progress (Noncredit).

Entrance Requirement(s): Audition Required. (This is a public performance course, where students may be dropped based on the audition result If allocating available seats to students who have been judged most qualified was necessary, pursant to Title 5, Section 58106.)

MUSIC-547 **0 UNITS**

Chamber Orchestra

9 LECTURE HOURS
27 LAB HOURS

This course is for the study, rehearsal, and public performance of literature appropriate to the chamber orchestra, with an emphasis on the development of skills needed to perform within a large ensemble. Different literature will be studied each semester. This is a non-credit course primarily but not exclusively intended for older adults as a lifelong education that provides opportunities for personal growth and development, community involvement, and skills for mental and physical well-being through creative expression of music making. Grades are Satisfactory Progress (Noncredit).

Entrance Requirement(s): Ability to read music and play an orchestral instrument.

MUSIC-554 **0 UNITS**

Community Chorus

9 LECTURE HOURS
27 LAB HOURS

This course is for the study, rehearsal and performance of choral literature from various, periods, and cultures, with an emphasis on the development of skills needed to perform within an ensemble. Open to all students and members of the community. Different literature will be studied each semester. This is a non-credit course primarily but not exclusively intended for older adults as a lifelong education that provides opportunities for personal growth and development, community involvement, and skills for mental and physical well-being through creative expression of music making. Grades are Satisfactory Progress (Noncredit).

MUSIC-558 **0 UNITS**

Community Jazz Ensemble

9 LECTURE HOURS
27 LAB HOURS

This course is for the study, rehearsal, and public performance of jazz ensemble literature, with an emphasis on the development of skills needed to perform within an ensemble. Different literature will be studied each semester. This is a non-credit course primarily but not exclusively intended for older adults as part of a lifelong education, providing opportunities for personal growth and development, community involvement, and skills for mental and physical well-being through creative expression of music making. Grades are Satisfactory Progress (Noncredit).

Music Family of Classes

APPLIED MUSIC SKILLS:

Family of Classes

(No more than four classes can be attempted within each family of classes listed below. See page 39 for details.)

MUSIC 30AR—Applied Skills: Woodwinds
MUSIC 30BR—Applied Skills: Brass
MUSIC 30CR—Applied Skills: Composition
MUSIC 30DR—Applied Skills: Percussion
MUISC 30ER—Applied Skills: Strings
MUSIC-30GR—Applied Skills: Classical Guitar
MUSIC 31R—Applied Skills-Piano
MUSIC 32R—Applied Skills: Voice

CHORAL ENSEMBLE/PERFORMANCE:

Family of Classes

(No more than four classes can be attempted within each family of classes listed below. See page 39 for details.)

MUSIC 54R—Community Chorus

CONDUCTING:

Family of Classes

(No more than four classes can be attempted within each family of classes listed below. See page 39 for details.)

MUSIC 14A—Conducting I

GUITAR:

Family of Classes

(No more than four classes can be attempted within each family of classes listed below. See page 39 for details.)

MUSIC 35—Beginning Guitar
MUSIC 36A—Intermediate Guitar
MUSIC 36B—Intermediate Guitar

INSTRUMENTAL ENSEMBLE/ PERFORMANCE:

Family of Classes

(No more than four classes can be attempted within each family of classes listed below. See page 39 for details.)

MUSIC 28R—Community Jazz Ensemble
MUSIC 37A—Indian Music Ensemble I
MUSIC 37B—Indian Music Ensemble II
MUSIC 37C—Indian Music Ensemble III
MUSIC 43R—Symphonic Band
MUSIC 44R—Instrumental Chamber Ensemble

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MUSICAL THEATRE:

Family of Classes

(No more than four classes can be attempted within each family of classes listed below. See page 39 for details.)

MUSIC 26—Musical Theatre Workshop

PIANO:

Family of Classes

(No more than four classes can be attempted within each family of classes listed below. See page 39 for details.)

MUSIC 41A—Elementary Piano I
MUSIC 41B—Elementary Piano II
MUSIC 42A—Intermediate Piano I
MUSIC 42B—Intermediate Piano II

VOICE:

Family of Classes

(No more than four classes can be attempted within each family of classes listed below. See page 39 for details.)

MUSIC 32R—Applied Skills: Voice
MUSIC 40A—Elementary Voice I
MUSIC 40B—Elementary Voice II
MUSIC 40C—Intermediate Voice I
MUSIC 40D—Intermediate Voice II

Nursing

NURSING (ADN)

General Information: Yuba College offers an Associate Degree Nursing program leading to licensure as an Registered Nurse (RN). A career ladder program for LVN's wishing to advance to the RN level is also available. All students are advised to check the Yuba College Website for nursing (nursing.yccd.edu) often for new information relative to application and admission. Graduates after passing the National Council of State Boards of Nursing Licensing Examination will have a variety of employment opportunities.

ADN Admission Requirements:
Costs: In addition to the expenses of regularly enrolled students (living costs, activity fees, books, tuition, etc.), Nursing students have the additional expenses of uniforms, licensing, health examination, drug testing, criminal background check, and others expenses. Nursing students are eligible for grants and loans available to any Yuba College student meeting the financial aid criteria. Upon completion of the Program, the graduate, unless otherwise disqualified by the licensing board, is eligible to take the National Council of State Boards of Nursing Licensing Examination.

Drug Policy: All students enrolled in nursing and allied health programs are subject to the department drug policy and procedure which can be found in the Student Handbook located on the Yuba College Website for nursing (nursing.yccd.edu).

Criminal Background Checks: All clinical agencies used in the nursing programs require criminal background screening. Applicants who are found to have certain violations that preclude clinical placement will have the offer of admission rescinded. Costs associated with the background screening is the responsibility of the applicant.

Pre-Admission Testing: Prior to admission, all applicants are required to complete a pre-admission as-sessment exam (TEAS). Preadmission testing is required for all students.

PREREQUISITE COURSEWORK: Units

Biology (minimum cumulative 2.50 GPA required):

BIOL 4	Human Anatomy	4
BIOL 5	Human Physiology	4
BIOL 6	Microbiology	4

Pharmacology and Pathophysiology (minimum 2.50 cumulative GPA required):

NURS 26	Pharmacology	3
NURS 36	Pathophysiology	4

Additional Prerequisites

ENGL 1A	College Composition and Reading	4
STAT 1	Introduction to Statistics	4
CHEM 2A	Introductory Chemistry	5
HLTH 10	Principles of Nutrition	3
PSYCH 1A	General Psychology	3
SOCIL 1	Introduction to Sociology ***OR***	3
ANTHR 2	Cultural Anthropology	3
SPECH 1	Public Speaking ***OR***	3
SPECH 6	Group Communication	3
Humanities GE		3

Some ADN prerequisite courses have their own prerequisites. Please refer to the current course description for additional information.

Enrollment Eligibility: To be eligible for enrollment in the program, the student must meet the following criteria:

a. The program uses a multi-criteria enrollment process based on the California Community College Chancellor's Office admission formula to evaluate and admit applicants. See our website nursing.yccd.edu for more details. Students must reapply each semester. There is no waiting list.
b. Successful completion with "C" grade or higher of the course prerequisites.
c. Achieve a score of >62% on the latest Test of Essential Academic Skills (TEAS), developed by Assessment Technologies Institute (ATI).

Enrollment Process: Eligible students are selected for the program according to the following steps:

1. Meet all eligibility requirements and complete our online application. Visit the nursing website: nursing. yccd.edu for more information.
2. Applicants will be admitted on a space-available basis using the multi-criteria screening process. Admitted students must complete a Yuba College application and complete the college entry requirements.

Students who complete this program should be able to:

1. Communicate and collaborate with interdisciplinary health care partners in providing care to diverse population of patients and families.
2. Demonstrate problem solving skills while utilizing resources to apply best practices to deliver safe and effective care.
3. Demonstrate understanding of and apply evidence based practice in rendering ethical, competent and culturally sensitive care across the lifespan to all patients.

REQUIRED COURSES:

First Semester		Units
NURS 1	Fundamentals of Medical Surgical	9

Second Semester		Units
NURS 2	Introduction Medical Surgical Nursing	7
NURS 22	Obstetrical Nursing	3.5

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Third Semester		Units
NURS 3	Intermediate Medical Surgical Nursing	5
NURS 21	Pediatric Nursing	3.5

Fourth Semester		Units
NURS 4	Advanced Medical Surgical Nursing	6.5
NURS 33	Psychiatric/Mental Health Nursing	4

TOTAL UNITS REQUIRED FOR DEGREE MAJOR 38.5

Students earning an AA/AS degree must complete a minimum of 18 units of General Education requirements, the multicultural graduation requirement, and the health requirement, in addition to the program units listed here. Students must complete a total of 60 degree applicable units to earn an AA or AS. Nursing students are waived the multicultural graduation requirement and the health requirement. Please see your counselor for additional information.

LVN TO RN CAREER MOBILITY PROGRAM

ASSOCIATE IN SCIENCE

General Information: This degree is designed for the California Licensed Vocational Nurse (LVN) who is admitted for advanced placement into the Registered Nursing (Associate Degree) Program. The graduate of the Associate Degree Nursing program demonstrates entry-level competencies and meets the educational requirements necessary to take the National Council Licensure Examination (NCLEX-RN) to become licensed as a Registered Nurse and eligible for employment.

LVN to RN Admission Requirements:
Costs: In addition to the expenses of regularly enrolled students (living costs, activity fees, books, tuition, etc.), Nursing students have the additional expenses of uniforms, licensing, health examination, drug testing, criminal background check, and others expenses. Nursing students are eligible for grants and loans available to any Yuba College student meeting the financial aid criteria. Upon completion of the Program, the graduate, unless otherwise disqualified by the licensing board, is eligible to take the National Council of State Boards of Nursing Licensing Examination.

Drug Policy: Students enrolled in nursing and allied health programs are subject to the department drug policy and procedure which can be found in the Student Handbook located on the Yuba College Website for nursing (nursing. yccd.edu).

Criminal Background Checks: Clinical agencies used in the nursing programs require criminal background screening. Applicants who are found to have certain violations that preclude clinical placement will have the offer of admission rescinded. Costs associated with the background screening is the responsibility of the applicant.

Pre-Admission Testing: Prior to admission, all applicants are required to complete a pre-admission as-sessment exam (TEAS). Preadmission testing is required for all students.

Prerequisite Coursework:		**Units**
Biology/English/Pathophysiology (minimum cumulative 2.50 GPA required):		
BIOL 4	Human Anatomy	4
BIOL 5	Human Physiology	4
BIOL 6	Microbiology	4
ENGL 1A	College Composition and Reading	4
NURS 36	Pathophysiology	4
Additional Prerequisites:		
NURS 37	LVN to RN Bridge Course	2
CHEM 2A	Introductory Chemistry	5
HLTH 10	Principles of Nutrition	3
Humanities GE		3
PSYCH 1A	General Psychology	3
SOCIL 1	Introduction to Sociology ***OR***	3
ANTHR 2	Cultural Anthropology	3
SPECH 1	Public Speaking ***OR***	3
SPECH 6	Group Communication	3
STAT 1	Introduction to Statistics	4

Some ADN prerequisite courses have their own Prerequisites. Please refer to the current course description for additional information.

Enrollment Eligibility: To be eligible for enrollment in the program, the student must meet the following criteria:

a. The program uses a multi-criteria enrollment process based on the California Community College Chancellor's Office admission formula to evaluate and admit applicants. See our website nursing.yccd.edu for more details. Students must reapply each semester. There is no waiting list.
b. Current California Vocational Nurse License. Recent V.N. graduates must submit proof of licensure prior to completing application.
c. Graduation from an accredited vocational school of nursing or demonstrated mastery of course content by Challenge Examination.
d. Have a Certification of completion for Intravenous Therapy
e. Successful completion with a "C" grade or higher of the course prerequisites. (Note: There is no recency requirement for prerequisites.)
f. Achieve a score of >62% on the latest Test of Essential Academic Skills (TEAS), developed by Assessment Technologies Institute (ATI).

Enrollment Process:
Eligible students are selected for the program according to the following steps:

a. Meet all eligibility requirements and apply to the program. Visit the nursing website nursing.yccd.edu for more information.
b. Applicants will be admitted on a space-available basis. Admitted student must complete a Yuba College application and complete the college entry requirements.

Students who complete this program should be able to:

1. Demonstrate application of evidence based practice in rendering ethical, competent and culturally sensitive care across the lifespan to all patients.
2. Demonstrate problem solving skills while utilizing resources to apply best practices to deliver safe and effective care.
3. Communicate and collaborate with interdisciplinary health care partners in providing care to diverse population of patients and families.

PROGRAM REQUIREMENTS

REQUIRED COURSES		**UNITS**
First Semester:		
NURS 3	Intermediate Medical Surgical Nursing	5
NURS 21	Pediatric Nursing	3.5
Second Semester:		
NURS 4	Advanced Medical Surgical Nursing	6.5
NURS 33	Psychiatric/Mental Health Nursing	4

TOTAL UNITS REQUIRED FOR DEGREE MAJOR 19

Students earning an AA/AS degree must complete a minimum of 18 units of General Education requirements, the multicultural graduation requirement, and the health requirement, in addition to the program units listed here. Students must complete a total of 60 degree applicable units to earn an AA or AS. Nursing majors are waived the multicultural graduation requirement and the health requirement. Please see your counselor for additional information.

OPTION 2: LVN TO RN ONLY (30-UNIT OPTION)

CERTIFICATE OF ACHIEVEMENT

(EFFECTIVE FALL 2022)

Option 2 meets California State Regulation 1429, and those completing this track are eligible to apply for the National Council of State Boards of Nursing Licensing Examination in preparation for licensure as a Registered Nurse. This is a non-degree option. States other than California may not grant Registered Nurse (RN) licensure based on completion of this option. Career laddering to a higher level such as Bachelor of Science in Nursing may be limited by this option as well. It is recommended the applicant call the Nursing Department for more information. Students who qualify will be admitted each semester on a space available basis.

Admission Criteria:

A. All applications are obtained and filed with the Nursing Office at the Yuba College main campus in Marysville. Applicants will be admitted on a space-available basis points in multi-criteria screening process and by date of receipt of completed application packet. Contact the Nursing Office for admission procedures, information.

B. Eligibility–Minimum qualifications for admission to this track are:

1. Current California Vocational Nurse License. Recent V.N. graduates must submit proof of licensure prior to completing application.
2. Graduation from an accredited vocational school of nursing or demonstrated mastery of course content by Challenge Examination.
3. IV Certified
4. Completion of the following courses with an overall averaged GPA of 2.5 or higher in the following courses: BIOL 5 Human Physiology, BIOL 6 Introductory Microbiology; NURS 36 Pathophysiology
5. Completion of the following individual courses with a "C" or higher: BIOL 5 Human Physiology, BIOL 6 Introductory Microbiology; NURS 36 Pathophysiology

Students who complete this program should be able to:

1. Communicate and collaborate with interdisciplinary healthcare partners in providing care to a diverse population of patients and families.
2. Demonstrate problem solving skills while utilizing resources to apply best practices to deliver safe and effective care.
3. Demonstrate application of evidence based practice in rendering ethical, competent and culturally sensitive care across the lifespan to all patients.

PROGRAM REQUIREMENTS

Nursing Major Units (31 Required)

BIOL 5	Human Physiology	4
BIOL 6	Introductory Microbiology	4
NURS 3	Medical Surgical Nursing 3	5
NURS 4	Advanced Medical Surgical Nursing	6.5
NURS 21	Pediatric Nursing	3.5
NURS 33	Psychiatric/Mental Health Nursing	4
NURS 36	Pathophysiology: Understanding Disease	4
TOTAL UNITS REQUIRED		**31**

COURSES

NURS-1 **9 UNITS**

Fundamentals of Medical Surgical

TRANSFERABLE TO CSU
72 LECTURE HOURS
270 LAB HOURS

Fundamentals of Medical Surgical Nursing introduces the foundational concepts, knowledge and skills essential to the practice of professional nursing. This course provides an introduction for the first semester nursing student to concepts and practices as they relate to the non-critical young adult through geriatric adult in the medical surgical (and/or skilled care) environment. Through utilization of the nursing process, the student will begin to recognize alterations in physiological functioning and formulate age and acuity appropriate nursing interventions. Selected psychomotor skills associated with meeting the basic needs, medication administration, physical assessment, and sterile techniques will be studied and practiced. (L,M)

Prerequisite(s): NURS-26; NURS-36

Entrance Requirement(s): Formal admission to the Yuba College Nursing program.

NURS-2 **7 UNITS**

Introduction Medical Surgical Nursing

TRANSFERABLE TO CSU
72 LECTURE HOURS
162 LAB HOURS

This course focuses on nursing concepts and safe nursing care of selected clients in selected systems under study. Further emphasis of learning is upon the surgical patient, the patient with wounds, and the patient who is in pain. (L,M,C)

Prerequisite(s): NURS-1

NURS-3 **5 UNITS**

Intermediate Medical Surgical Nursing

TRANSFERABLE TO CSU
36 LECTURE HOURS
162 LAB HOURS

This course is designed to provide learning opportunities for in-depth application of the nursing process to the health needs of a selection of acutely ill patients and simulated acutely ill patients. Emphasis is on the application of biophysical and psychosocial knowledge to meet the health care needs of the adult with acute and chronic disorders in selected body systems. (L,M,C)

Prerequisite(s): NURS-2

NURS-4 **6.5 UNITS**

Advanced Medical Surgical Nursing

TRANSFERABLE TO CSU
54 LECTURE HOURS
189 LAB HOURS

The course introduces concepts related to patients with hematologic, immunologic, burns, infective, and cancerous processes and diseases. The topics of Leadership and Management, Delegation, Quality and Safety, Time Management, Conflict Resolution, Organization Structure and Change, Legal and Ethical issues, and Role Transition are content focuses. The scope of practice of the registered nurse as defined by the California Business and Professions Code is discussed along with an outlook on the future of nursing and nursing practice.

Prerequisite(s): NURS-3

NURS-18 **1 UNIT**

Comprehensive Review for The NCLEX RN Examination

TRANSFERABLE TO CSU
18 LECTURE HOURS

Comprehensive review and test taking strategies for the Registered Nurse (RN) Student in Nursing Science, Pharmacology, and Nursing content area's related to the RN NCLEX Examination. (L) Grades are P/NP Only.

Prerequisite(s): NURS-3

NURS-21 **3.5 UNITS**

Pediatric Nursing

TRANSFERABLE TO CSU
27 LECTURE HOURS
108 LAB HOURS

This pediatric course focuses on registered nurses' care from infancy through adolescence. Health problems are studied in the acute and community care setting. Education of the pediatric client and their family on health promotion, growth and development, disease prevention, and safety issues are addressed. Ethical and legal issues are discussed. The impact of diverse cultural and spiritual beliefs on health care decisions are explored. (L,M,C)

NURS-22 **3.5 UNITS**

Obstetrical Nursing

TRANSFERABLE TO CSU
27 LECTURE HOURS
108 LAB HOURS

This course focuses on integration and application of the nursing process as it relates to the provision of culturally sensitive nursing care to the childbearing family during pregnancy, birth, the postpartum period, and care of the newborn. Content will also include women's health across the lifespan, including preventative care and diagnosis and treatment of gynecologic disorders. Application of concepts, theory, and clinical skills is provided by selected patient care experiences in a variety of inpatient and outpatient settings. Computer literacy skills are recommended. (L,M,C)

Prerequisite(s): NURS-1

NURS-26 **3 UNITS**

Pharmacology

TRANSFERABLE TO CSU
54 LECTURE HOURS

Basic principles of pharmacology with focus on pharmacokinetics, pharmacodynamics, and related therapeutic implication for major drug categories. This course may be taken by nursing and non-nursing students. (L,M)

Advisory: BIOL-4 and BIOL-5 recommended.

NURS-33 **4 UNITS**

Psychiatric/Mental Health Nursing

TRANSFERABLE TO CSU
36 LECTURE HOURS
108 LAB HOURS

Eclectic approach to psychiatric and mental health nursing including psychodynamics of human behavior, group dynamic, therapeutic communication and psychopharmacology, with an emphasis on concepts and principles as applied to self and individuals in therapy. The clinical nursing experience involves the application of nursing process, meeting the mental health and psychosocial needs as well as physiological health needs of individuals throughout the life span during one to one interactions with clients, participating in group process, staff conferences and various treatment modalities. (L,M)

NURS-36 **4 UNITS**

Pathophysiology: Understanding Disease

TRANSFERABLE TO CSU
72 LECTURE HOURS

The study of disease pathology in the human body with a focus on the study of abnormal physiological function of body systems at the cellular level. Correlation to disease etiology and biological and physical manifestations produced by abnormal physiology. Core course content for NURS 1 through NURS 4B, nursing courses. The content of this course is content required for licensure with the California Board of Registered Nursing. Course is required to be completed prior to formal admission to the Yuba College Nursing Program. (L,C)

Prerequisite(s): BIOL-4; BIOL-5

NURS-37 **2 UNITS**

LVN to RN Bridge Course

TRANSFERABLE TO CSU
36 LECTURE HOURS

The bridge course is designed to prepare the Licensed Vocational Nurse to enter the 3rd semester of the ADN Program and to facilitate transition from the LVN to RN role.

NURS-51 **3 UNITS**

Medical Terminology

54 LECTURE HOURS

Intended to assist those studying in the fields of medicine and health care by learning a word-building system for defining, using, spelling and pronouncing medical words. Course is designed for those preparing for a health career such as nursing, medical secretary, ward secretary, emergency medical technician, medical technologist, respiratory therapist, or other fields that require a medical vocabulary. (C)

NURS-55 **1 UNIT**

Nursing Skills Lab

54 LAB HOURS

Designed for nursing students to remediate or update nursing skills and nursing care to patients via simulation, learn to access health care information via the internet, obtain help with writing skills specific to nursing department requirements and remediate or update math skills relating to calculation of dosages and solutions. Grades are P/NP Only.

NURS-56 **1 UNIT**

Advanced Nursing Skills Lab

54 LAB HOURS

Designed for nursing students in the advanced instruction to practice and/or remediate in advanced nursing skills. Areas of practice include advanced procedures, technological equipment experience, help with advanced analysis of assessment findings, diagnostics, and multiple system acute pathologies, activities to promote critical thinking, simulation, and developing complex nursing care plans. (L,M,C) Grades are P/NP Only.

NURS-57 **1 UNIT**

Second Year Advanced Nursing Skills Lab

54 LAB HOURS

Designed for 2nd year nursing student to practice and/or remediate in advanced/basic nursing skills. Areas include advanced procedures, equipment, assessment, diagnostics, and multiple system pathologies for adult and pediatric clients. Activities promote critical thinking, development of complex nursing care plans/concept maps, and growth and development for adult and pediatric clients. Remediation in first year skills as needed. (L,M,C) Grades are P/NP Only.

Philosophy

Philosophy courses are designed to cultivate wisdom by critically questioning fundamental beliefs about reality, self-identity, knowledge, religion, and ethics. The core courses that make up the curriculum include Introduction to Philosophy, Critical Thinking, Ethics, Philosophy of Religion, and World Religions.

COURSES

PHIL-1 **3 UNITS**

Introduction to Philosophy

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

Introduces students to the nature and practice of philosophic inquiry by focusing on traditional philosophic issues from a multicultural perspective. Particular emphasis will be given to classic Western philosophers as well as classic Eastern sources. (L)

PHIL-2 **3 UNITS**

Ethics

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

An introduction to the study of ethics emphasizing the relevance of ethics to everyday decision-making. Topics include: the human context of moral reasoning, relativism, subjectivism, religion and ethics, conscience and moral development, ethical egoism, utilitarianism, the ethics of duty, rights ethics, virtue ethics and the good life, and case studies in moral reasoning. (L)

PHIL-3 **3 UNITS**

Philosophy of Religion

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

A philosophical exploration of religious belief and practice, with an emphasis on understanding how the world's major religious traditions - Eastern and Western -respond to fundamental issues concerning the ultimate nature of reality. Topics include: religion and philosophy, worldviews and religion, metaphysics without God, metaphysics with God, arguments for God's existence, the problem of evil, incarnation and God, God and gender, life after death, religious experience, science and religion, prudential arguments for religious belief, faith and justification, love and the meaning of life. (L)

PHIL-6 **3 UNITS**

Political Philosophy

TRANSFERABLE TO CSU AND UC
POLS 120
54 LECTURE HOURS

This course introduces students to the major authors of political thought and examines the assumptions and central issues involved in political thinking. Concepts such as: democracy, fascism, justice, rights, law liberty, political authority, political principles, and consequences will be examined through an analysis of classical and contemporary reading selections. (L) Grades are P/NP Option.

Limitations on Enrollment: Course not open for credit to students with credit in POLSC- 6.

PHIL-12 **3 UNITS**

Critical Thinking

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

A basic introduction to critical thinking skills emphasizing their application to everyday decision-making. Topics include: definitions of critical thinking, language and meaning, claims and reasons, argument and inference, argument identification and reconstruction, inductive reasoning, deductive reasoning, underlying assumptions, evaluating assumptions, assumptions and evidence, worldviews as a context for critical thought, evaluating arguments, sound and fallacious reasoning, informal fallacies, casual inference, and scientific method. (L) Grades are P/NP Option.

PHIL-20 **3 UNITS**

World Religions

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

A survey of the beliefs and practices of Eastern and Western religious traditions. Emphasis will be given to the origin and development of each tradition, its major forms of expression, and the various ways in which each tradition addresses the most fundamental questions of human existence. (L)

Physical Science

COURSES

PHYSC-10B **3 UNITS**

Physical Science - Physics & Chemistry

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
54 LECTURE HOURS

Basic concepts in physics and chemistry: motion, force, energy, electricity, atomic theory, matters, chemical and physical changes, radioactivity, and an introduction to modern physics. This course also includes introduction to applied physical sciences including Geology, Meteorology, Astronomy, and Oceanography. (L)

PHYSC-10C **1 UNIT**

Physical Science - Physics and Chemistry Lab

TRANSFERABLE TO CSU AND UC
54 LAB HOURS

Laboratory experiments in physics and chemistry to reinforce and complement the materials presented in PHYSC 10B which may be taken concurrently. (L)

Co-requisite: PHYSC-10B

Physics

COURSES

PHYS-2A **3 UNITS**

General Physics I

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
C-ID: PHYS 105 (PHYS 2A AND PHYS 3A)
54 LECTURE HOURS

Comprehensive study of physics, including mechanics, hydro-statics, thermodynamics and wave motion; equal emphasis placed on active participation of students' through wide range of interactive classroom techniques for qualitative understanding and quantitative problem solving. Intended primarily for non-physics and non-engineering science majors including life science majors. (L,M)

Prerequisite(s): MATH-21

Co-requisite: PHYS-3A

PHYS-2B **3 UNITS**

General Physics II

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
C-ID: PHYS 110 (PHYS 2B AND PHYS 3B)
54 LECTURE HOURS

Comprehensive study of physics, including electricity and magnetism, optics, atomic and nuclear physics, and relativity; equal emphasis placed on active participation of students through a wide range of interactive classroom techniques for qualitative understanding and quantitative problem solving. Intended primarily for non-physics and non-engineering science majors including life science majors. (L,M)

Prerequisite(s): PHYS-2A; PHYS-3A

Co-requisite: PHYS-3B

PHYS-3A **1 UNIT**

General Physics Laboratory I

TRANSFERABLE TO CSU AND UC - UC UNIT LIMIT
C-ID: PHYS 105 (PHYS 2A AND PHYS 3A)
54 LAB HOURS

Performance of lab experiments to verify the important concepts of PHYS 2A. (L,M)

Co-requisite: PHYS-2A

Limitations on Enrollment: Course not open for credit to students with credit in PHYS-4 series, or equivalent.

PHYS-3B **1 UNIT**

General Physics Laboratory II

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
C-ID: PHYS 110 (PHYS 2B AND PHYS 3B)
54 LAB HOURS

Performance of lab experiments to verify the important concepts of PHYS 2B. (L,M)

Prerequisite(s): PHYS-2A; PHYS-3A

Co-requisite: PHYS-2B

Limitations on Enrollment: Course not open for credit to students with credit in PHYS-4 series.

PHYS-4A **4 UNITS**

Mechanics

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
C-ID: PHYS 205
54 LECTURE HOURS
54 LAB HOURS

An overview of the field of physics- its position and significance relative to the sciences- followed by a detailed study of mechanics. Primarily for architecture, chemistry, engineering, geophysics, and physics majors. (L,M)

Prerequisite(s): MATH-1A

Co-requisite: MATH-1B

PHYS-4B **4 UNITS**

Electromagnetism

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
C-ID: PHYS 210
54 LECTURE HOURS
54 LAB HOURS

Study of electromagnetism with accompanying laboratory. (L,M)

Prerequisite(s): PHYS-4A

PHYS-4C **4 UNITS**

Thermodynamics, Light, and Modern Physic

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
C-ID: PHYS 215
54 LECTURE HOURS
54 LAB HOURS

Study of thermodynamics, optics, and modern physics with accompanying laboratory. (L,M)

Prerequisite(s): PHYS-4B

PLANT SCIENCE

(See Agriculture)

Political Science

POLITICAL SCIENCE

ASSOCIATE IN ARTS FOR TRANSFER

The Associates in Arts in Political Science for Transfer degree is designed for students to transfer into the CSU system to complete a bachelor's degree in Political Science or similar major. The degree promotes student engagement with politics at local, domestic, and international levels. Students are exposed to different perspectives on civic issues, political thoughts, American politics and world politics through which students are trained to be critical and analytical thinkers.

The Political Science program offers lower division courses to study government, public policy, political philosophies, political theories and international relations.

This degree will guarantee a student the admission to a California State University (but not necessarily to a specific campus or major).

To earn this AA-T degree, students must meet the following Associate Degree for Transfer requirements (pursuant to SB 1440 law):

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- Completion of 60 semester units or 90 quarter that are eligible for transfer to the California State University.
- The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education; Breadth Requirements.
- A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
- Obtainment of a minimum grade point average of 2.0.
- Earn a grade of "C" or better in all courses required for the major or area of emphasis.

Students who complete this program should be able to:

1. Distinguish major political theories and/or political concepts.
2. Analyze the opposing arguments of major political issues.
3. Identify social, political, and/or economic forces necessary to establish a certain political order.

REQUIRED COURSES		UNITS
POLSC 1	Introduction To American Government	3
List A: Complete three courses from the following:		
POLSC 2	Comparative Politics	3
POLSC 6	Political Philosophy	3
POLSC 7	International Relations	3
STAT 1	Introduction to Statistical Methods	4
List B: Complete two courses from the following including any course from List A not already used:		
ECON 1A	Elementary Economics-Macro	3
ECON 1B	Elementary Economics-Micro	3
HIST 16B	African-American History	3
POLSC 2	Comparative Politics (if not already used)	3
POLSC 3	California Politics	3
POLSC 6	Political Philosophy (if not already used)	3
POLSC 7	International Relations (if not already used)	3
SOCIL 5	Sociology of Race and Ethnicity	3
SOCIL 6	Sociology of Sex and Gender	3
STAT 1	Introduction To Statistical Methods (if not already used above)	4
TOTAL UNITS REQUIRED FOR DEGREE MAJOR		**18**

Students earning an AA-T/AS-T degree must complete 60 semester units of coursework eligible for transfer to the CSU including the CSU GE-B or IGETC (CSU version), all courses in the major with "C" or better or "P" (pass) grades, and achieve a minimum transferable cumulative GPA of 2.0.

COURSES

POLSC-1 **3 UNITS**

Introduction To American Government

TRANSFERABLE TO CSU AND UC
C-ID: POLS 110
54 LECTURE HOURS

Covers the foundations, politics, and institutions of American government. Explores the foundations of American democracy, including political culture, the Constitution, civil liberties, and civil rights. Analyzes the influence and impact of media, political parties, elections, and interest groups. Examines political institutions such as the Congress, the Presidency, the courts, and the federal bureaucracy. State and local governments are included. (L)

POLSC-2 **3 UNITS**

Comparative Politics

TRANSFERABLE TO CSU AND UC
C-ID: POLS 130
54 LECTURE HOURS

An introduction to comparative politics. This course compares the major political systems in selected countries, including industrialized democracies, developing states, and current/former communist regimes. It analyzes the similarities and differences among the major states by studying their government types, ideologies, political parties, and economies. Students will learn about methods of comparison of various political systems. (L)

POLSC-3 **3 UNITS**

California Politics

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

An introduction to California politics that explores state, county, and municipal governments. Examines how state politics impact Californians' daily lives with an insight into California's diverse and unique people, cultures, and political processes. Current major political issues will be analyzed, such as economic and class conflict, immigration issues, ethnic-cultural relations, and contemporary challenges that urban, suburban, and rural governments face. (L)

POLSC-6 **3 UNITS**

Political Philosophy

TRANSFERABLE TO CSU AND UC
C-ID: POLS 120
54 LECTURE HOURS

This course introduces students to the major authors of political thought and examines the assumptions and central issues involved in political thinking. Concepts such as democracy, fascism, justice, rights, law liberty, political authority, political principles, and consequences will be examined through an analysis of classical and contemporary reading selections. (L) Grades are P/NP Option.

Limitations on Enrollment: Course not open to for credit to students with credit in PHIL- 6.

POLSC-7 **3 UNITS**

International Relations

TRANSFERABLE TO CSU AND UC
C-ID: POLS 140
54 LECTURE HOURS

A survey of historical and contemporary international relations. Focus will be on major IR theories and methodologies, international security, globalization, international political economy,international law, international institutions (e.g. UN, WTO, NAFTA, NGOs), and human security. This class also analyzes the foreign policies of major actors, major states, areas of conflict and tension, and various aspects of globalization. in addition, it explores how people of different cultures and ethnic bakground impact the domestic and foreign politics of their states, with emphasis on issues of human security: ethnic conflict, the global North and South economic gap, pandemics, human rghts, population, environment and resource management. (L)

POLSC-8 **3 UNITS**

Introduction to Public Policy

TRANSFERABLE TO CSU
54 LECTURE HOURS

This course focuses on the intersection and real-world operation of Economics and Political Science. It provides a practical overview of the public policy process and its implications for government decision-making. It explores a number of concepts associated with policy analysis and aims to provide students with practical hands-on skills

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that can be used in a variety of economic and social policy settings. Topics covered in this course include policy research, analysis, and writing; the legislative process; stakeholder consensus building; political lobbying; and ethics in policy-making. Grades are P/NP Option.

Limitations on Enrollment: Course not open for credit to students with credit in ECON 8.

Psychiatric Technician

PSYCHIATRIC TECHNICIAN

CERTIFICATE OF ACHIEVEMENT

The Psychiatric Technology Program is a four-semester and single-summer session program offered at the Yuba College Campus. The program includes 648 theoretical hours of classroom education, correlated with 1006 clinical practicum hours. The subject matter reflects the knowledge and skills specified by Board of Vocational Nursing Psychiatric Technology Education (BVNPTE) regulation, rules, and laws. All clinical practicum will be under the supervision of a licensed BVNPTE-approved clinical instructor. The curriculum may be periodically revised to reflect the evolution of the profession and BVNPTE laws and regulations.

Theory and clinical program content shall reflect the client and patient population that are normally associated with the licensed Psychiatric Technician which will include clients/patients with mental disorders, personality disorders, substance abuser, and developmentally disabled. Students will be admitted based upon date of special program application reflected to the program waitlist number. Call (530) 741-6742 to request additional information regarding the program. Application is on the Yuba Community College, Psychiatric Technician web page.

Students who complete this program should be able to:

1. Effectively participate in a therapeutic environment and communicate in a professional and respectful manner to both staff and clients.
2. Accurately perform and document basic nursing skills, basic physical and mental assessments and interventions while prioritizing patient care.
3. Pass the California state board exam for licensure as a psychiatric technician after completing all required theory and clinical hours.

REQUIRED COURSES		UNITS
First Semester		
PSYCT 50	Anatomy and Physiology	3
PSYCT 51	Human Development	3
PSYCT 52	Nursing Science A	2
Second Semester		
PSYCT 53	Developmental Disabilities A	5
PSYCT 54	Nursing Science B	5
HLTH 10	Principles of Nutrition	3
PSYCT 55	Pharmacology A	2
Summer		
PSYCT 56	Nursing Science C	6
Third Semester		
PSYCT 57	Psychiatric Disorders A	7
PSYCT 58	Group Process	2
PSYCT 59	Crisis Management	2
PSYCT 60	Pharmacology B	2
Fourth Semester		
PSYCT 61	Substance Abuse	2
PSYCT 62	Psychiatric Disorders B	4
PSYCT 63	Developmental Disabilities B	6
TOTAL UNITS REQUIRED FOR CERTIFICATE		**54**

COURSES

PSYCT-50 **3 UNITS**

Anatomy and Physiology

54 LECTURE HOURS

Introductory course providing a comprehensive overview of normal structure and function of the human organism. Includes but not limited to the following: cell and tissue structure and function, organ and system differentiation and related terminology. Designed for the psychiatric technician student or equivalent. (L)

PSYCT-51 **3 UNITS**

Human Development

54 LECTURE HOURS

Overview of normal human growth and development from biologic conception to death. Includes but not limited to the following: identification of major theorists/theories, presentation of major milestone of growth and development associated with the chronologic age groups and subject related terminology. (L)

PSYCT-52 **2 UNITS**

Nursing Science A

36 LECTURE HOURS

Overview and orientation to the nursing science, which includes the following: basic medical terminology, fundamental concepts relating to the health care systems, ethical and professional codes of conduct and overview of past, current, and future trends in the U.S. health care systems. (L)

PSYCT-53 **5 UNITS**

Developmental Disabilities A

54 LECTURE HOURS
108 LAB HOURS

Introductory overview of the five developmental disability subtypes: mental retardation, epilepsy, cerebral palsy, infantile autism and neurological handicapping. Also included will be instruction in MAB (Managing Assaultive Behavior) training designed to prepare the student to effectively manage assaultive behavior.

Entrance Requirement(s): Successful completion of all first semester Psych Tech courses. Conform to clinical agency rules and regulations, such as passing a criminal background check and drug screen (specific regulations dependent on clinical site).

Additional Enrollment Fees: Students will be required to also purchase the following: CPR, Background Test, Drug Test, Stethoscope, Uniforms, Nurse pack.

PSYCT-54 **5 UNITS**

Nursing Science B

36 LECTURE HOURS
162 LAB HOURS

Overview of diseases and disorders in terms of diagnostic criteria, symptom presentations, system pathology, medical/nursing interventions and typical prognosis. Emphasis shall be on nursing interventions, special care needs, and patient related skills. Application of basic nursing skills associated with "long term care" patients. The clinical affiliation also includes a 40 hour skills lab practicum at the Yuba College Nursing Lab to include basic nursing care.

Entrance Requirement(s): Successful completion of all 1st semester classes in the Psych Tech program. Conform to clinical agency rules and regulations, such as passing a criminal background check and drug screen (specific regulations dependent on clinical site.)

PSYCT-55 **2 UNITS**

Pharmacology A

36 LECTURE HOURS

Introductory overview to the basic concepts associated with the field of nursing related pharmacology. Includes a math review, computation conversion and review of specific drugs relating to specific drug classifications. The course material shall be directly related to the clinical medical experience offered in the clinical portion of this program. (L,M)

PSYCT-56 **6 UNITS**

Nursing Science C

54 LECTURE HOURS
162 LAB HOURS

Overview of the medical-surgical nursing component of the program: includes all age groups, common diagnoses, nursing interventions and aspects of an acute care medical facility. in the clinical portion of the course, students will apply nursing skills relating to the medical surgical patient within an acute care medical facility. This application of skills will involve various age groups, diagnoses, and health care needs.

Entrance Requirement(s): Successful completion of all 1st and 2nd semester classes. Maintain a clear background and urine toxicology.

PSYCT-57 **7 UNITS**

Psychiatric Disorders A

36 LECTURE HOURS
270 LAB HOURS

Overview of the major psychiatric disorders. Emphasis shall be on the following: psychiatric terminology, psychiatric disorders, symptoms, nursing interventions, treatment and typical prognosis. Application of psychiatric skills relating to patients in the acute care, day treatment and adult education components of the Sutter-Yuba Mental Health Care System. Includes the following: application of therapeutic communication skills, medication administration, group process participation, observation, clinical assessment, interdisciplinary team participation, and one-to-one observation.

Entrance Requirement(s): Successful completion of first semester, second semester, and summer PSYCT courses.

PSYCT-58 **2 UNITS**

Group Process

36 LECTURE HOURS

Overview of the therapeutic intervention known as group process as it relates to the developmentally disabled and psychiatric client. Includes the following: related terminology, group leader skills, goals of the group process and specific client behaviors. (L)

PSYCT-59 **2 UNITS**

Crisis Management

36 LECTURE HOURS

Overview of the concept of "crisis" relating to an individual's personal reaction to physical or psychological stressors. Includes but not limited to the following: recognition of stress response, specific adaptive responses, specific maladaptive responses, the dynamics of grief "burnout and suicide." (L)

PSYCT-60 **2 UNITS**

Pharmacology B

36 LECTURE HOURS

Overview the somatic therapies with emphasis upon the psychotropic medications as they relate to the psychiatric client. Includes but not limited to the following major drug classes: antipsychotic, antidepressant, antianxiety, antimanic, and anticholinergic. (L,M)

Prerequisite(s): PSYCT-55

Entrance Requirement(s): Student must be able to accurately calculate medical dosages prior to taking class.

PSYCT-61 **2 UNITS**

Substance Abuse

36 LECTURE HOURS

Provides for the historical overview of those drugs that are most commonly misused, or abused within the contemporary U.S. society. Makes a distinction between substance-use disorders and substance-induced disorders. All major drugs that have the potential for abuse and or misuse shall be presented in terms of the following: classifications, physical/psychological effects and dependency potential. (L)

PSYCT-62 **4 UNITS**

Psychiatric Disorders B

36 LECTURE HOURS
108 LAB HOURS

Provides for the general orientation to the ten personality disorders as described in Axis II of the DSM-V. Emphasis shall be upon the defining criteria, interpersonal impact, social consequences and intervention techniques. This course will also have 108 hours in mental and developmental disabilities clinical sites.

Entrance Requirement(s): Students must have successfully completed all previous semester classes in the Psych Tech program.

PSYCT-63 **6 UNITS**

Developmental Disabilities B

54 LECTURE HOURS
162 LAB HOURS

Provides an overview of the application of the behavioral science known as "behavior intervention" as it applies to the mentally retarded population. Includes a summary of state and federal legislation for the developmental disabilities. Also includes a general preparation for the Board of Vocational Nurses and Psychiatric Technicians (BVNPT) state board examination. Provides for direct participation with the specific agency known as "Community Resource Services". Students shall be assigned to CRS sites based on (2) four week clinical rotations

Entrance Requirement(s): Successful completion of all previous semester courses in the Psychiatric Technician program.

Psychology

PSYCHOLOGY

ASSOCIATE IN ARTS FOR TRANSFER

The Associate in Arts in Psychology for Transfer degree is designed for students for transfer into the CSU system to complete a bachelors degree in Psychology. Psychology is the study of human thought, feelings, and behavior. Part of its appeal is the fact that it involves both scientific investigation and practical applications of those findings in everyday life.

Yuba College Psychology courses offer a diverse program with several goals: 1) To expose students to the variety of sub-fields in psychology; 2) to engender knowledge of, and appreciation for, the spirit and nature of scientific inquiry; 3) to facilitate insight into oneself and increase knowledge of, and sensitivity to, others; 4) to introduce students to the basic body of knowledge, thus preparing them for further study in Psychology.

Those pursuing psychology as a field of study will find many career options centering around helping others to understand, predict, and influence their own behavior and the behavior of others. Psychologists may teach, conduct research, perform psychological testing, or do consultation in a variety of settings which include hospitals, businesses, private practice, personnel offices, industry, colleges and universities, and government. Training in Psychology provides a valuable foundation for professions wherein interpersonal interactions are a component of the work setting.

To earn this AA-T degree, students must meet the following Associate in Arts Degree for Transfer requirements (pursuant to SB 1440 law):

- Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University.
- The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education Breadth Requirements.
- A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
- Obtainment of a minimum grade point average of 2.0.
- Earn a grade of "C" or better in all courses required for the major or area of emphasis.

Students who complete this program should be able to:

1. Analyze psychological data, Information, and theories.
2. Articulate similarities and differences in human behavior among cultures, times, and environments, demonstrating an understanding of cultural pluralism and knowledge of global issues as they relate to human behavior.
3. Apply psychological principles to the development of interpersonal, occupational and social skills and life-long personal growth.
4. Demonstrate respect for the psychological differences in opinions, feelings and values of others in one's interactions.
5. Draw reasonable conclusions in relation to human behavior from the data/information/theories.

REQUIRED COURSES		UNITS
PSYCH 1A	General Psychology	3
PSYCH 7	Research Methods in Psychology	3
PSYCH 6	Introduction To Statistics in Social and Behavioral Science ***OR***	4
STAT 1	Introduction To Statistical Methods	4

List A: Complete 4-5 units from the following:

BIOL 1	Principles of Biology	4
BIOL 4	Human Anatomy	4
BIOL 10L	General Biology	4
BIOL 15	Bioscience	4
BIOL 24L	Human Biology with Laboratory	4
BIOL 10	General Biology ***AND***	3
BIOL 11	General Biology Laboratory	1

List B: Complete one course from the following:

ENGL 1B	Critical Thinking and Writing About Literature	3
ENGL 1C	Critical Thinking/Advanced Composition	3
PHIL 12	Critical Thinking	3

List C: Complete one course from the following:

COUNS 33	Personal and Social Adjustment	3
PSYCH 12	Human Sexuality	3
PSYCH 22	Social Psychology	3
PSYCH 33	Personal and Social Adjustment	3
PSYCH 41	Lifespan Development	3

TOTAL UNITS REQUIRED FOR DEGREE MAJOR 20-21

Students earning an AA-T/AS-T degree must complete 60 semester units of coursework eligible for transfer to the CSU including the CSU GE-B or IGETC (CSU version), all courses in the major with "C" or better or "P" (pass) grades, and achieve a minimum transferable cumulative GPA of 2.0.

PSYCHOLOGY WITH A FOCUS ON SOCIAL SERVICES

ASSOCIATE IN ARTS

Psychology is the study of human thought, feelings, and behavior. Part of its appeal is the fact that it involves both scientific investigation and practical applications of those findings in everyday life. This degree is designed to introduce students to the field of psychology with a specific emphasis on social services. Those pursuing this degree will find career options centering around helping others. This program is designed to prepare students for employment as para-professionals with agencies such as (but not limited to) youth group homes, youth and family services agencies, schools, probation, welfare, and mental health departments. Specific career titles may include (but are not limited to) peer support group facilitator, youth group home worker, and county/state eligibility worker.

This degree is not designed to prepare students to transfer to a UC or CSU. If the goal is to transfer to a UC or CSU, the Psychology ADT is a much better option.

Students who complete this program should be able to:

1. Apply psychological principles to the development of interpersonal, occupational and social skills and life-long personal growth.
2. Demonstrate respect for the psychological differences in opinions, feelings and values of others in ones interactions.
3. Analyze psychological data/information/theories.
4. Articulate similarities and differences in human behavior among cultures, times, and environments, demonstrating an understanding of cultural pluralism and knowledge of global issues as they relate to human behavior.
5. Draw reasonable conclusions in relation to human behavior from the data/information/theories.

REQUIRED COURSES		UNITS
PSYCH 1A	General Psychology	3
PSYCH 12	Human Sexuality and Sexual Behavior	3

Complete two courses from the following:

PSYCH 7	Research Methods in Psychology	3

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PSYCH 22	Social Psychology	3
PSYCH 33	Personal and Social Adjustment ***OR***	3
COUNS 33	Personal and Social Adjustment	3
PSYCH 41	Lifespan Development	3

Complete two courses from the following:

AJ 10	Introduction to Criminal Justice System ***OR***	3
AJ 21	Narcotics and Drugs	3
ECE 31	Child, Family, Community	3
HUSEV 10	Introduction to Human Services	3
HUSEV 28	Skills and Techniques of Group Counseling ***OR***	3
SPECH 6	Small Group Communication ***OR***	3
SPECH 7	Interpersonal Communication ***OR***	3
SPECH 8	Intercultural Communication ***OR***	3

TOTAL UNITS REQUIRED FOR DEGREE MAJOR 18

Students earning an AA/AS degree must complete a minimum of 18 units of General Education requirements, the multicultural graduation requirement, and the health requirement, in addition to the program units listed here. Students must complete a total of 60 degree applicable units to earn an AA or AS. Please see your counselor for additional information.

COURSES

PSYCH-1A **3 UNITS**

General Psychology

TRANSFERABLE TO CSU AND UC
C-ID: PSY 110
54 LECTURE HOURS

Psychology is the scientific study of behavior and mental processes. The content focuses on the exploration of major psychological theories and concepts, methods, and research findings in psychology. Topics include the biological bases of behavior, perception, cognition and consciousness, learning, memory, emotion, motivation, development, personality, social psychology, psychological disorders and therapeutic approaches, and applied psychology.

PSYCH-6 **4 UNITS**

Introduction to Statistics in Social and Behavioral Science

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
C-ID: MATH 110
72 LECTURE HOURS

An introduction to the basic statistical methods and analyses commonly used in social and behavioral science research (use of probability techniques, hypothesis testing, and predictive techniques), including applications of statistical software to social science data. Topics include descriptive statistics; probability and sampling distributions; statistical inference; correlation and linear regression; analysis of variance, chi-square and t-tests; and application of technology for statistical analysis including the interpretation of the relevance of the statistical findings. This course is designed for Psychology students who plan to transfer to a UC/CSU and does NOT fulfill the mathematics competency for local graduation requirements.

Prerequisite(s): PSYCH-1A; MATH52

PSYCH-7 **3 UNITS**

Research Methods in Psychology

TRANSFERABLE TO CSU AND UC
C-ID: PSY 200
54 LECTURE HOURS

This course covers the many research designs and methods in psychology, including descriptive, associative, and causal claims. The various instrumentation, collection procedures, data collection and analysis, and reporting procedures are also examined. Research methods and design will be surveyed from a wide section of psychological fields.

Prerequisite(s): PSYCH-1A; PSYCH-6 or STAT-1

PSYCH-12 **3 UNITS**

Human Sexuality and Sexual Behavior

TRANSFERABLE TO CSU AND UC
C-ID: PSY 130
54 LECTURE HOURS

This course is an introductory overview of the field of human sexuality. Human sexuality will be examined from psychological, biological, sociocultural, and historical perspectives. Students will be encouraged to become aware of their own sexual attitudes, values, and behaviors and to explore the attitudes, values and behaviors of others including traditionally non-represented cultures and groups. Current sex norms and various aspects of interpersonal and individual sexual adjustment will be explored.

PSYCH-22 **3 UNITS**

Social Psychology

TRANSFERABLE TO CSU AND UC
C-ID: PSY 170
54 LECTURE HOURS

This course considers individual human behavior in relation to the social environment. The power of the situation, other individuals, and the social group will be examined. Emphasized topics include: aggression, prejudice and stereotypes, interpersonal attraction, attitudes and attitude change, conformity, group phenomena, gender roles, cultural norms, person perception, and social cognition.

PSYCH-33 **3 UNITS**

Personal and Social Adjustment

TRANSFERABLE TO CSU AND UC
C-ID: PSY 115
54 LECTURE HOURS

This course is designed with an applied focus for students interested in how psychology is used in everyday life and is related to other social sciences. The course surveys different psychological perspectives and theoretical foundations and how these are applied across a person's life taking into account the influence of factors such as culture, gender, ethnicity, historical cohort, and socio-economic status. A broad understanding of how scientists, clinicians, and practitioners study and apply psychology is emphasized.

PSYCH-41 **3 UNITS**

Lifespan Development

TRANSFERABLE TO CSU AND UC
C-ID: PSY 180
54 LECTURE HOURS

Introduction to the scientific study of human development from conception to death. Examines the interplay of the biological, psychological, social, and cultural influences on the developing human being.

PSYCH-46 **3 UNITS**

Introduction to Abnormal Psychology

TRANSFERABLE TO CSU AND UC
C-ID: PSY 120
54 LECTURE HOURS

This course introduces the scientific study of psychopathology and atypical behaviors, broadly defined. Students investigate abnormal behavior from a variety of perspectives including biological, psychological, and sociocultural approaches. An integrative survey of theory and research in abnormal behavior, and intervention and prevention strategies for psychological disorders are also introduced.

Radiologic Technology

RADIOLOGIC TECHNOLOGY

ASSOCIATE IN SCIENCE

Upon successful completion of this program, the student will receive an Associates of Science Degree and will be eligible to take the American Registry of Radiologic Technologist (ARRT) examination. Upon successful completion of the ARRT examination, the graduate will then be a Registered Technologist in Radiography (RTR) and eligible to apply to be a Certified Radiologic Technologist (CRT) to work in the state of California.

The program is accredited by the State of California Department of Public Health, Radiologic Health Branch and the Joint Review Committee on Education in Radiologic Technology.

Enrollment is limited. Students should be aware that this is a high-unit program requiring a minimum of 66 units.

Minimum Criteria for Admissions:

1. High School graduate or equivalent.
2. 18 years of age or older.
3. Successful completion of the following with a grade of “C” or higher:

   - BIOL 4 Human Anatomy
   - BIOL 5 Human Physiology
   - One Math or Statistics course with a Math 52 prerequisite
   - ENGL 1A College Composition and Reading
   - SPECH 1 Public Speaking, SPECH 7 Interpersonal - Communication, or SPECH 8 Intercultural Communication
   - One course from the local GE Area “A” Natural Science
   - One course from the local GE Area “B” Social Science
   - One course from the local GE Area “C” Humanities

   NOTE: Courses may be transferred from another accredited college or university but must be equivalent to those listed above.

   NOTE: All Yuba College General Education Requirements must be met before acceptance into the program.

4. All immunizations are complete with documentation of immunity (or non-conversion status).

Please visit the Yuba College Radiologic Technology website for application and additional information: https://yc.yccd.edu/radtech/

Students who complete this program should be able to:

1. Demonstrate critical thinking and problem solving skills.
2. Demonstrate the clinical competency of an entry level Radiologic Technologist.
3. Demonstrate appropriate workplace and patient communication skills
4. Model professionalism and ethics.

*Courses must be completed with a grade of "C" or better before or during the indicated semester to progress in the program.

REQUIRED COURSES		UNITS
First Spring Session		
RADT 55	Introduction to Radioloic Sciences	1
First Fall Semester		
RADT 1	Fund of Radiologic Science & Health Care	4
RADT 2	Radiation Physics and Equipment	4
RADT 3A	Radiographic Procedures 1	3
RADT 6A	Radiologic Technology Internship 1	5.5
Second Spring Semester		
RADT 3B	Radiographic Procedures 2	3
RADT 4	Prin of Radiation: Biology-Protection	2
RADT 5	Principles Radiation Exposure and Equip	4
RADT 6B	Radiologic Technology Internship 2	4.5
First Summer Semester		
RADT 6C		7
Second Fall Semester		
RADT 3C	Radiographic Procedures 3	3
RADT 6D	Radiologic Technology Internship 4	8
RADT 7	Advanced Radiographic Studies	1
RADT 8	Radiographic Pathology	2
Third Spring Semester		
RADT 3D	Radiographic Procedures 4	2
RADT 6E	Radiologic Technology Internship 5	8.5
RADT 9	Advanced Modalities	3
RADT 12	Radiologic Technology Board Review	1.5
TOTAL UNITS REQUIRED FOR DEGREE MAJOR		**67**

Students earning an AA/AS degree must complete a minimum of 18 units of General Education requirements, the multicultural graduation requirement, and the health requirement, in addition to the program units listed here. Students must complete a total of 60 degree applicable units to earn an AA or AS. Radiologic Technology majors are waived the multicultural graduation requirement and the health requirement Please see your counselor for additional information.

COURSES

RADT-1 **4 UNITS**

Fund of Radiologic Science & Health Care

TRANSFERABLE TO CSU
72 LECTURE HOURS

Introduction to the field of Radiologic Technology. Basic imaging principles, patient diversity and care, the clinical environment, patient vital signs, and communication.

Prerequisite(s): RADT-55

Entrance Requirement(s): Acceptance into the Radiologic Technology Program.

RADT-2 **4 UNITS**

Radiation Physics and Equipment

TRANSFERABLE TO CSU
72 LECTURE HOURS

Introduction to radiation physics; fundamentals of x-ray equipment; x-ray production and x-ray beam characteristics

Prerequisite(s): RADT-55

Entrance Requirement(s): Acceptance into Radiologic Technology Program.

RADT-3A **3 UNITS**

Radiographic Procedures 1

TRANSFERABLE TO CSU
36 LECTURE HOURS
54 LAB HOURS

Knowledge and skills necessary to perform standard radiographic procedures that are of optimal diagnostic quality. Skills necessary for image critique. Areas studied: thorax, abdomen, pelvis and upper and lower extremities.

Prerequisite(s): RADT-55

Entrance Requirement(s): Acceptance into Radiologic Technology Program.

RADT-3B **3 UNITS**

Radiographic Procedures 2

TRANSFERABLE TO CSU
36 LECTURE HOURS
54 LAB HOURS

Knowledge and skills necessary to perform standard radiographic procedures that are of optimal diagnostic quality. Skills necessary for image critique. Areas studied: spine, skull, facial bones. Trauma exams. Pediatric exams. Use of portable machine and radiography in the operating room.

Prerequisite(s): RADT-3A; RADT-55

Entrance Requirement(s): Acceptance into Radiologic Technology Program.

RADT-3C **3 UNITS**

Radiographic Procedures 3

TRANSFERABLE TO CSU
54 LECTURE HOURS

Study of fluoroscopy, contrast studies, pharmacology as it relates to the imaging sciences, and completion of venipuncture certification.

Prerequisite(s): RADT-3B; RADT-55

Entrance Requirement(s): Acceptance into Radiologic Technology Program.

RADT-3D **2 UNITS**

Radiographic Procedures 4
TRANSFERABLE TO CSU
36 LECTURE HOURS

Critical thinking skills, professionalism, and analysis of images needed to obtain the best radiographic image in various situations.

Prerequisite(s): RADT-3C; RADT-55

Entrance Requirement(s): Acceptance into Radiologic Technology Program.

RADT-4 **2 UNITS**

Prin of Radiation: Biology-Protection

TRANSFERABLE TO CSU
36 LECTURE HOURS

Principles of radiation protection, including the responsibilities of the radiographer for patients, personnel and the public. Radiation health and safety requirements of federal and state regulatory agencies, accreditation agencies and health care organizations.

Prerequisite(s): RADT-55

Entrance Requirement(s): Acceptance into Radiologic Technology Program.

RADT-5 **4 UNITS**

Principles Radiation Exposure and Equipment

TRANSFERABLE TO CSU
72 LECTURE HOURS

Knowledge of factors that govern and influence the production of the radiographic image; digital radiography image production and review, Picture archiving and communication systems, DICOM, HL7.

Entrance Requirement(s): Acceptance into Radiologic Technology Program.

RADT-6A **5.5 UNITS**

Radiologic Technology Internship 1

TRANSFERABLE TO CSU
300 LAB HOURS

Beginning radiologic experience in clinical facilities under the supervision of the college instructor, staff technologists, and clinical instructors. Basic development of skills in correlation with current radiologic practices. Rotation in various facilities. Grades are P/NP Only.

Prerequisite(s): RADT-55

Entrance Requirement(s): Acceptance into the Radiologic Technology Program.

RADT-6B **4.5 UNITS**

Radiologic Technology Internship 2

TRANSFERABLE TO CSU
260 LAB HOURS

Beginning radiologic experience in clinical facilities under the supervision of the college instructor, staff technologists, and clinical instructors. Enhanced development of skills in correlation with current radiologic practices. Rotation in various facilities. Grades are P/NP Option.

Prerequisite(s): RADT-6A; RADT-55

Entrance Requirement(s): Acceptance into Radiologic Technology Program.

RADT-6C **7 UNITS**

Radiologic Technology Internship 3

TRANSFERABLE TO CSU
390 LAB HOURS

Intermediate radiologic experience in clinical facilities under the supervision of the college instructor, staff technologists, and clinical instructor. Increased development of skills in correlation with current radiologic practices. Rotation in various facilities. Grades are P/NP Only.

Prerequisite(s): RADT-6B; RADT-55

Entrance Requirement(s): Acceptance into Radiologic Technology Program.

RADT-6D **8 UNITS**

Radiologic Technology Internship 4

TRANSFERABLE TO CSU
436 LAB HOURS

Advanced radiologic experience in clinical facilities under the supervision of the college instructor, staff technologists, and radiologists. Development of enhanced skills in correlation with current radiologic practices. Rotation in various facilities. Grades are P/NP Only.

Prerequisite(s): RADT-6C; RADT-55

Entrance Requirement(s): Acceptance into the Radiologic Technology Program.

RADT-6E **8.5 UNITS**

Radiologic Technology Internship 5

TRANSFERABLE TO CSU
464 LAB HOURS

Advanced radiologic experience in clinical facilities under supervision by college instructor, staff technologists and clinical instructors. Increased development of skills in correlation with current radiologic practices. Rotation in various medical facilities. Grades are P/NP Only.

Prerequisite(s): RADT-6D; RADT-55

Entrance Requirement(s): Acceptance into the Radiologic Technology Program.

RADT-7 **1 UNIT**

Advanced Radiographic Studies

TRANSFERABLE TO CSU
18 LECTURE HOURS

Ethics and law in the radiologic sciences; advanced understanding of professionalism as related to a radiologic technologist.

Entrance Requirement(s): Acceptance into Radiologic Technology Program.

RADT-8 **2 UNITS**

Radiographic Pathology

TRANSFERABLE TO CSU
36 LECTURE HOURS

Injuries and abnormalities most frequently encountered in Radiologic Technology. Key anatomy and physiology principles, imaging considerations for each disease, and its radiographic appearance, signs and symptoms, and treatment.

Prerequisite(s): RADT-55

Entrance Requirement(s): Acceptance into Radiologic Technology Program.

RADT-9 **3 UNITS**

Advanced Modalities

TRANSFERABLE TO CSU
54 LECTURE HOURS

Computed tomography basics, cross-sectional anatomy, and advanced modalities in the field of Radiologic Technology.

Entrance Requirement(s): Acceptance in Radiologic Technology Program.

RADT-12 **1.5 UNITS**

Radiologic Technology Board Review

TRANSFERABLE TO CSU
27 LECTURE HOURS

Intensive review for the testing of the four (4) content areas tested by State of California Radiation Health Branch and the American Registry of Radiologic Technology: patient care, safety, image production, and procedures. Grades are P/NP Only.

Prerequisite(s): RADT-55

Entrance Requirement(s): Acceptance into Radiologic Technology Program.

RADT-55 **1 UNIT**

Introduction to Radiologic Sciences

18 LECTURE HOURS

Introduction to the field of Radiologic Sciences and expectations of the program. Refresher course for program prerequisites. Grades are P/NP Option.

Entrance Requirement(s): Acceptance into the Radiologic Technology Program.

Sign Language

COURSES

SIGN-1 **4 UNITS**

American Sign Language 1

TRANSFERABLE TO CSU AND UC
72 LECTURE HOURS

This is the first course in a series of four courses in the fundamentals of American Sign Language (ASL) used by the Deaf community, including basic vocabulary, syntax, numbers, fingerspelling, and grammatical non-manual markers. The instructional activities are based on an immersion approach, in which the students develop language competency in source and target language, cultural knowledge, and an increased understanding of the Deaf community. Students are expected to participate in Deaf community events. Instructional materials will be in English.

Advisory: Students are strongly recommended to co-enroll in ASL 61 (Fingerspelling and Numbers 1.).

SIGN-2 **4 UNITS**

American Sign Language 2

TRANSFERABLE TO CSU AND UC
72 LECTURE HOURS

This is the second course in a series of four courses in the fundamentals of American Sign Language (ASL) used by the Deaf community, including basic vocabulary, syntax, numbers, fingerspelling, and grammatical non-manual markers. The instructional activities are based on an immersion approach, in which the students develop language competency in source and target language, cultural knowledge, and an increased understanding of the Deaf community. Students are expected to participate in Deaf community events and read instructions in English. (C)

Prerequisite(s): SIGN-1

Advisory: It is recommended that students co-enroll in ASL 61 (Fingerspelling and Numbers 1) If they have not already taken It.

SIGN-3 **4 UNITS**

American Sign Language 3

TRANSFERABLE TO CSU AND UC
72 LECTURE HOURS

This is the third course in a series of four courses in the fundamentals of American Sign Language (ASL) used by the Deaf community. This course furthers students' study of vocabulary, syntax, classifiers and narrative form. The instructional activities are based on an immersion approach in which the students develop language competency in the target language, cultural knowledge, and an increased understanding of the Deaf community. Students are expected to participate in Deaf community events and read instructions in English. (C)

Prerequisite(s): SIGN-2

SIGN-61 **2 UNITS**

Fingerspelling and Numbers 1

36 LECTURE HOURS

This is the first of two courses in the fundamentals of fingerspelling and numbers as they are used in American Sign Language (ASL). The instructional activities are based on a practice approach, in which the students develop language competency ASL by finding parallels to those that exist in English. Emphasis is placed on both producing and understanding ASL fingerspelling and number usage, rules and parameters. (C) Grades are P/NP Only.

Advisory: It is recommended that students co-enroll in ASL 1 or ASL 2.

Social Science

SOCIAL SCIENCE

ASSOCIATE IN ARTS

Students who complete this program should be able to:

1. Identify major theoretical orientations in the social and behavioral sciences.
2. Describe and apply basic concepts regarding human behavior, society, and culture.
3. Utilize the principles of social scientific methods to generate and evaluate hypotheses about human behavior and culture.
4. Appreciate the diversity of human behaviors and cultures across time and space, as well as the more universal aspects of human experience.

REQUIRED COURSES		UNITS
ANTHR 1	Physical Anthropology ***OR***	3
ANTHR 2	Cultural Anthropology	3
ECON 1A	Elementary Economics-Macro	3
GEOG 1	Physical Geography ***OR***	3
GEOG 2	Cultural Geography	3
POLSC 1	Introduction to Political Science	3
PSYCH 1A	General Psychology ***OR***	3
SOCIL 1	Introduction to Sociology	3
Any History Class		3
TOTAL UNITS REQUIRED FOR DEGREE MAJOR		**18**

Students earning an AA/AS degree must complete a minimum of 18 units of General Education requirements, the multicultural graduation requirement, and the health requirement, in addition to the program units listed here. Students must complete a total of 60 degree applicable units to earn an AA or AS. Please see your counselor for additional information.

Sociology

SOCIOLOGY

ASSOCIATE IN ARTS FOR TRANSFER

This degree is designed for students who wish to transfer to a California State University to complete a bachelor's degree in Sociology or related field. Students who major in sociology will study society, its groups, institutions and processes, as well as understanding and predicting human behavior.

Pursuant to SB 1440, the Associate in Arts for Transfer is intended for students who plan to complete a bachelor's degree in Sociology at a CSU campus. Students completing an AA-T degree are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that does accept the AA-T will be required to complete no more than 60 units after transfer to earn a bachlor's degree. This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. in all cases, students should consult with a counselor for more information on university admission and transfer requirements.

To earn this AA-T degree, students must meet the following requirements:

- Completion of the following major requirements with grades of C or better;
- Completion of a minimum of 60 CSU-transferable semester units with a grade point average of at least 2.0; and
- Certified completion of either the California State University General Education Breadth pattern (CSU GE) or the Intersegmental General Education Transfer Curriculum (IGETC).

Students who complete this program should be able to:

1. Understand that social life exists at a community level as well as a regional, national, and global one, and have at least one experience working (i.e., researching or analyzing, or helping to solve) a social problem in the community.
2. Understand how America' social structure, culture, and governance differ from those of other comparable societies, and the world is gradually developing global structure, culture, and governance processes.
3. Understand the main ways - qualitative and quantitative - that social scientists collect and analyze data.
4. Analyze the role of social forces in shaping the individual.
5. Identify how ideas about what is "real" and "true" are constructed in a social context and shaped by those who have power and influence.

REQUIRED COURSES		UNITS
SOCIL 1	Introduction to Sociology	3
SOCIL 2	Social Problems	3
List A: Complete one course from the following:		
STAT 1	Introduction to Statistics	4
SOCIL 8	Social Science Research Methods	3
List B: Complete two courses from the following:		
SOCIL 10	Sociology of Marriage & Family	3
SOCIL 6	Sociology of Sex and Gender	3
SOCIL 5	Sociology of Race & Ethnicity	3
PSYCH 22	Social Psychology	3
List C: Complete one course from the following:		
Any course not already used from List B		3

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SOCIL 3	Critical Thinking in Social Science	3
PSYCH 1A	General Psychology	3
PSYCH 1B	General Psychology: Individual and Social Processes	3
ECON 1A	Elementary Economics - Macro	3
ECON 1B	Elementary Economics - Micro	3
POLSC 1	Introduction to American Government	3

TOTAL UNITS REQUIRED FOR DEGREE MAJOR 18-19

Students earning an AA-T/AS-T degree must complete 60 semester units of coursework eligible for transfer to the CSU including the CSU GE-B or IGETC (CSU version), all courses in the major with "C" or better or "P" (pass) grades, and achieve a minimum transferable cumulative GPA of 2.0.

SOCIL-1 **3 UNITS**

Introduction to Sociology

TRANSFERABLE TO CSU AND UC
C-ID: SOCI 110
54 LECTURE HOURS

Basic principles and concepts of sociology including culture, socialization, organizations, institutions, stratification, collective behavior, and social change. (L) Grades are P/NP Option.

SOCIL-2 **3 UNITS**

Social Problems

TRANSFERABLE TO CSU AND UC
C-ID: SOCI 115
54 LECTURE HOURS

Survey of social problems in present-day American culture and application of sociological theory and analysis to issues such as poverty, racism, crime, healthcare, education, and the environment. (L)

SOCIL-5 **3 UNITS**

Sociology of Race and Ethnicity

TRANSFERABLE TO CSU AND UC
C-ID: SOCI 150
54 LECTURE HOURS

Examines the social construction of categories of race and ethnicity in society. Focus on inequality and the impact of racial categorization on everyday life through institutions such as the labor market, schools, residential segregation, healthcare, media, and the criminal justice system. (L)

SOCIL-6 **3 UNITS**

Sociology of Sex and Gender

TRANSFERABLE TO CSU AND UC
C-ID: SOCI 140
54 LECTURE HOURS

Sociological analysis of the construction, reproduction, and consequences of sex categories and gender roles. Emphasis on how gender designation of "male" and "female" impacts an individual's life, including violence and abuse, sexual harassment, hate crimes, wage differentials and unequal opportunities. (L)

SOCIL-8 **3 UNITS**

Social Science Research Methods

TRANSFERABLE TO CSU AND UC
C-ID: SOCI 120
54 LECTURE HOURS

Covers basic issues in the design and implementation of social science research. Topics covered include the scientific method, ethics, research design, basic descriptive and inferential statistics, and qualitative and quantitative methodologies. (L,M,C)

Prerequisite(s): SOCIL-1

SOCIL-10 **3 UNITS**

Sociology of Marriage and Family

TRANSFERABLE TO CSU AND UC
C-ID: SOCI 130
54 LECTURE HOURS

Sociological analysis of marriage and family, including history, cross-cultural comparison, gender roles, sexuality, parenthood, and contemporary debates about family values, form, and function. (L)

SOCIL-30 **3 UNITS**

Sociology of Aging

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

A life course perspective on social, economic and psychological factors related to aging and the changing place of the aged in contemporary society. Topics include current controversies (e.g., "entitlement" programs), the social and cultural construction of the aged, social policies around aging, health and long-term care of the aged, employment and retirement issues, community social services, and social inequality. Service learning (i.e. volunteer work) may be a component of the course. (L)

Spanish

COURSES

SPAN-1 **4 UNITS**

Elementary Spanish Part 1

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
72 LECTURE HOURS

Introduction to the language and culture of the Spanish-speaking world. It includes the development of listening, speaking, reading, and writing in Spanish with an emphasis on the communicative skills, as well as the fundamentals of Spanish grammar. This course is equivalent to one year of high school Spanish. (L)

SPAN-2 **4 UNITS**

Elementary Spanish Part 2

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
72 LECTURE HOURS

A continuation of Spanish 1. Provides further basic communication skills through listening, speaking, reading, and writing. This course introduces the present perfect, the conditional, the future and the subjective verb cases. It includes practice at the intermediate level and review of the fundamentals of Spanish Grammar. (L)

Prerequisite(s): SPAN-1 or one year of high school Spanish or Placement exam: Students must score 70% or higher on a placement test administered by the Spanish Department.

SPAN-3 **4 UNITS**

Intermediate Spanish Part 1

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
72 LECTURE HOURS

First of two semesters of intermediate Spanish. This course provides intermediate level of communication skills through listening, speaking, reading, and writing in a cultural context with special emphasis on communication. (L)

Prerequisite(s): SPAN-2 or two years of high school Spanish or Placement exam: Students must score 70% or higher on a placement test administered by the Spanish Department.

SPAN-4 **4 UNITS**

Intermediate Spanish Part 2

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
72 LECTURE HOURS

This is a fourth semester course in Spanish designed to review the grammar, vocabulary, and composition acquired in the first three semesters. Contextualized and culturally appropriate exercises and readings of modern texts in the history, art, geography, literature, and cultural values of the Hispanic peoples. The four language skills (listening, writing, reading, and speaking) are further developed through special emphasis on communication. (L)

Prerequisite(s): SPAN-3 or three years of high school Spanish or Placement exam: Students must score 70% or higher on a placement test administered by the Spanish Department.

SPAN-10 **3 UNITS**

Introduction to Spanish

TRANSFERABLE TO CSU
54 LECTURE HOURS

Study of elementary Spanish with an emphasis on proficiency. This course includes grammar, vocabulary, pronunciation and communication.

SPAN-20A **4 UNITS**

Spanish for Heritage Students

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
72 LECTURE HOURS

Speaking, reading and writing in Spanish, targeted to heritage students with oral fluency. Readings pertinent to the culture, history and literature of Hispanics in the United States, Latin America and Spain. Compositions exploring personal, political, and cultural issues, as well as analysis of Spanish and Latin American literary pieces. Exploration of grammatical concepts and accentuation and spelling rules. Class is conducted entirely in Spanish. Periodic exams and compositions. (L)

Entrance Requirement(s): Oral fluency in Spanish. In order to succeed in this course, students must possess oral fluency in Spanish and the ability to understand readings and writing in Spanish or by placement.

SPAN-20B **4 UNITS**

Spanish for Heritage Students

TRANSERABLE TO CSU AND UC - UC UNIT LIMIT
72 LECTURE HOURS

This course, which is conducted in Spanish, is the second of a two-semester sequence designed for fluent speakers of Spanish who are proficient in the language, but who have had little or no formal language trainining. (L)

Prerequisite(s): SPAN-20A

Entrance Requirement(s): Fluency in Spanish

SPAN-36 **3 UNITS**

Literatura Hispano-Americana

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

Study of major works of Latin-American Literature. Readings, lectures and discussions of major works in Spanish by Columbus, Las Casas, Sor Juana Ines de la Cruz, Dario and others. Intended for Hispanic students and advanced Spanish students. Students who enroll should be able to read and participate in the class discussions in Spanish.

Speech

COMMUNICATION STUDIES

ASSOCIATE IN ART IN COMMUNICATION FOR TRANSFER

The Speech Communication Studies program at Yuba College is designed to nurture an understanding of crucial roles of communication in human relationships, cultures, society, and civic affairs. The Associate in Arts in Communication Studies for Transfer degree provides a curriculum emphasizing the theory and practice of interpersonal, small group, public, and professional contexts of communication. The Associate in Arts in Communication Studies for Transfer degree provides students with the opportunity to complete their freshman/sophomore level classes needed for a Bachelor's degree in Communication Studies within the California State University System. Upon completion of the Associate in Arts in Communication for Transfer degree, students will be prepared to complete a baccalaureate degree provide the student various employment opportunities related to business and business management, government, not-for-profit, human resources, education, marketing, and manufacturing.

Associate in Arts in Communication Studies for Transfer requirements (as stated in SB1440 law) requires students to complete the following:

- A minimum of 18 semester in the major or area of emphasis as determined by the community college district.
- 60 semester CSU transferable units
- California State University General Education-Breadth (CSU GE-Breadth) pattern of 39 units; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern of 37 units.
- Obtainment of a minimum grade point average (GPA) of 2.0.
- Earn a grade of "C" or better in all courses required for the major or area of emphasis.

Students who complete this program should be able to:

1. Demonstrate the communication skills necessary to engage in personal, professional, civic and social relationships.
2. Demonstrate and apply critical thinking skills in a variety of communication studies contexts.

REQUIRED COURSES		UNITS
SPECH 1	Public Speaking	3
SPECH 3	Argumentation and Critical Thinking	3
List A: Complete two courses from the following:		
SPECH 6	Small Group Communication ***OR***	3
SPECH 7	Interpersonal Communication	3
SPECH 8	Intercultural Communication	3
List B: Complete two courses from the following:		
ENGL 2	Oral Interpretation of Literature ***OR***	3
SPECH 2	Oral Interpretation of Literature	3
SPECH 4R	Speech Arts Workshop ***OR***	3
MCOMM 2	Introduction to Mass Communications	3
TOTAL UNITS REQUIRED FOR DEGREE MAJOR		**18**

Students earning an AA-T/AS-T degree must complete 60 semester units of coursework eligible for transfer to the CSU including the CSU GE-B or IGETC (CSU version), all courses in the major with "C" or better or "P" (pass) grades, and achieve a minimum transferable cumulative GPA of 2.0.

COMMUNICATION STUDIES

ASSOCIATE IN SCIENCE

Students who complete this program should be able to:

1. Demonstrate the communication skills necessary to engage in personal, professional, civic and social relationships.
2. Demonstrate and apply critical thinking skills in a variety of communication studies contexts.

REQUIRED COURSES		UNITS
MCOMM 2	Introduction to Mass Communications	3
SPECH 1	Public Speaking	3
SPECH 2	Oral Interpretation of Literature	3
SPECH 6	Group Communication	3
SPECH 7	Interpersonal Communication	3

Complete two courses from the following:

MCOMM 4	Beginning TV Studio Production	3
PHIL 12	Critical Thinking	3
PSYCH 1A	General Psychology	3
SPECH 4R	Speech Arts Workshop	3
SPECH 8	Intercultural Communication	3
THART 11A	Introduction to Acting I	3

TOTAL UNITS REQUIRED FOR DEGREE MAJOR 21

Students earning an AA/AS degree must complete a minimum of 18 units of General Education requirements, the multicultural graduation requirement, and the health requirement, in addition to the program units listed here. Students must complete a total of 60 degree applicable units to earn an AA or AS. Please see your counselor for additional information.

COURSES

SPECH1 **3 UNITS**

Public Speaking

TRANSFERABLE TO CSU AND UC
C-ID: COMM 110
54 LECTURE HOURS

Theory and techniques of public speaking in democratic society. Discovery, development, and criticism of ideas in public discourse through research, reasoning, organization, composition, presentation, and evaluation of various types of speeches including informative and persuasive speeches. (L)

SPECH-2 **3 UNITS**

Oral Interpretation of Literature

TRANSFERABLE TO CSU AND UC
C-ID: COMM 170
54 LECTURE HOURS

Introduction to the analysis and interpretation of literature for oral reading. The course encourages a deeper, richer experience of prose, poetry, and drama and enables sharing the student to share the love of literature in the oral tradition. (L)

SPECH-3 **3 UNITS**

Argumentation and Critical Thinking

TRANSFERABLE TO CSU AND UC
C-ID: COMM 120
54 LECTURE HOURS

General approach to rational decision making and argumentative analysis including structuring written and oral arguments and rebuttals, gathering relevant evidence for arguments, and identifying logical fallacies. (L)

SPECH-4R **3 UNITS**

Speech Arts Workshop

TRANSFERABLE TO CSU
162 LAB HOURS
REPEATABLE THREE TIMES ONLY

Supervised preparation for participation in Inter-Collegiate Speech and Oral Interpretation events and/or for presentations at local schools.

SPECH-6 **3 UNITS**

Small Group Communication

TRANSFERABLE TO CSU AND UC
C-ID: COMM 140
54 LECTURE HOURS

Study of communication theory in small group situations. Emphasis will be placed on researching, organizing, and delivering oral presentations. Investigation of the role of communication in various group processes, problem solving, leadership, team building, effective decision making and conflict. (L)

SPECH-7 **3 UNITS**

Interpersonal Communication

TRANSFERABLE TO CSU AND UC
C-ID: COMM 130
54 LECTURE HOURS

Study of communicaiton skills associated with establishing and maintaing satisfying interpersonal relationships. Various approaches to effective communication in multiple interpersonal contexts will be discussed. Factors influencing interpersonal communication are analyzed, such as: language, perception, non-verbal and communication climate. (L)

SPECH-8 **3 UNITS**

Intercultural Communication

TRANSFERABLE TO CSU AND UC
C-ID: COMM 150
54 LECTURE HOURS

The study of intercultural communication theory relates to perception, context, language, verbal and nonverbal messages and adaptation. Emphasis will be placed on developing effective intercultural communication skills. Students will demonstrate effective intercultural communications skills by oral presentations, group/interpersonal interactions. (L)

Statistics

COURSES

STAT-1 **4 UNITS**

Introduction To Statistical Methods

TRANSFERABLE TO CSU AND UC
C-ID: MATH 100; SOCI 125
63 LECTURE HOURS
27 LAB HOURS

The use of probability techniques, hypothesis testing, and predictive techniques to facilitate decision-making. Topics include descriptive statistics; probability and sampling distributions; statistical inference; correlation and linear regression; analysis of variance, chi-square and t-tests; and application of technology for statistical analysis

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including the interpretation of the relevance of the statistical findings. Applications using data from disciplines including business, social sciences, psychology, life science, health science, and education. Grades are P/NP Option.

Prerequisite(s): MATH-52 or a satisfactory score on the mathematics placement test possible for students to test into college level math/stat.

STAT-100 **2 UNITS**

Algebra Support for Elementary Statistics

36 LECTURE HOURS

A review of prerequisite skills, competencies, and concepts needed in statistics. Intended for students who are concurrently enrolled in STAT 1 Introduction to Statistical Methods, at Yuba College. Topics include concepts from elementary and intermediate algebra that are needed to understand the basics of college-level statistics. Concepts are taught in the context of statistical analysis. Grades are P/NP Only.

Co-requisite: STAT-1

STAT-500 **0 UNITS**

Algebra Support for Elementary Statistics

36 LECTURE HOURS

A review of prerequisite skills, competencies, and concepts needed in statistics. Intended for students who are concurrently enrolled in STAT 1 Introduction to Statistical Methods, at Yuba College. Topics include concepts from elementary and intermediate algebra that are needed to understand the basics of college-level statistics. Concepts are taught in the context of statistical analysis. Grades are Satisfactory Progress (Noncredit).

Co-requisite: STAT-1

Theatre Arts

Classes with "R" can be taken a total of four times but are subject to Family of Classes restrictions on page 176.

THEATRE ARTS

ASSOCIATE IN ARTS FOR TRANSFER

The Theatre Arts Department provides a safe and inclusive environment for students to explore performance, and prepare them to succeed in their academic, career, and lifelong learning goals. Course offerings include introductory classes in theatre and film, which satisfy general education and transfer requirements, as well as courses in acting and stagecraft. Students can start with no previous training or experience and progress to advanced classes to prepare them for transfer and an opportunity to earn an AA transfer degree in Theatre. Courses are integrated around the central ideas of collaboration, individual responsibility, student-centered learning, open and respectful dialogue, and practical application of theory and skills. Work in acting technique, design, costuming, makeup, lighting, technical production, and other crafts are taught in theory and practice resulting in public performances of a variety of plays and musicals.

This degree will guarantee a student the admission to a California State University (but not necessarily to a specific campus or major).

To earn this AA-T degree, students must meet the following Associate Degree for Transfer requirements (pursuant to SB 1440 law):

- Completion of 60-semester units or 90 quarter that are eligible for transfer to the California State University.
- The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education Breadth Requirements.
- A minimum of 18-semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
- Obtainment of a minimum grade point average of 2.0.

Earn a grade of "C" or better in all courses required for the major or area of emphasis. Students who complete this program should be able to:

1. Demonstrate the ability to work as an ensemble member of a theatre company by meeting expectations, following safe production practices, and respecting the opinions, feelings, and values of others.
2. Identify similarities and differences among cultures, times, and environments expressed through dramatic texts, films, and live performances.
3. Analyze and evaluate dramatic texts and performances in terms of their technical skills, artistic objectives, and their historical and cultural significance
4. Effectively use language, communicate their ideas, and creatively express themselves through the application of theatrical skills.
5. Select appropriate acting techniques and apply technical skills, imagination, and script analysis toward the creation of a live or recorded performance.
6. Identify theatrical challenges, production needs, and potential problems; research, formulate, and construct creative solutions; and execute an achievable plan using appropriate tools, theories, and techniques.

REQUIRED COURSES (9 UNITS REQUIRED)		UNITS
Complete nine units from the following:		
THART 10	Introduction to Theatre	3
THART 11A	Introduction to Acting I	3
THART 29R	College Theatre ***OR***	1-3
THART 30	Technical Theatre in Production	3
List A: Complete nine units from the following:		
THART 11B	Introduction to Acting II	3
THART 45A	Stagecraft 1	3
THART 45B	Production and Technical Theatre I	3
THART 45C	Production and Technical Theatre II	3
THART 30	Technical Theatre in Production ***OR*** (if not used above)	3
THART 29R	College Theatre (if not used above)	1-3
TOTAL UNITS REQUIRED FOR DEGREE MAJOR		**18**

Students earning an AA-T/AS-T degree must complete 60 semester units of coursework eligible for transfer to the CSU including the CSU GE-B or IGETC (CSU version), all courses in the major with "C" or better or "P" (pass) grades, and achieve a minimum transferable cumulative GPA of 2.0.

THEATRE ARTS

ASSOCIATE IN ARTS

Students who complete this program should be able to:

1. Effectively use language, written and oral, and non-verbal communication in performances, critiques, and technical collaboration to facilitate theatre productions and group projects.
2. Apply research to the creative and professional process.
3. Demonstrate understanding and application of skills related to theater arts in the following areas: performance, scenography, theatre production, and theatre studies

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4. Demonstrate the ability to work as an ensemble member of a theatre company by meeting professional expectations, following safe production practices, and being respectful of the opinions, feelings, and values of others.
5. Analyze global issues, moral dilemmas, cultural competencies, and social systems as encountered through work in Theatre Arts.
6. Analyze scripts and other production materials while addressing and evaluating problems and issues in making creative choices.

REQUIRED COURSES		UNITS
THART 10	Introduction to Theatre	3
THART 11A	Introduction to Acting	3
THART 29	College Theatre	3
THART 12A	Advanced Studies in Acting	3

Complete 6 units from the following:

ENGL 2	Literary Fieldtrip	1-3
MCOMM 2	Introduction to Electronic Media	3
MCOMM 4	Beginning TV Studio Production	3
SPECH 1	Public Speaking	3
SPECH 4R	Speech Arts Workshop	3
THART 11B	Introduction to Acting II	3
THART 12B	Intermediate Studies in Acting II	3
THART 29R	College Theatre	1-3
THART 34	Introduction to Film	3
THART 45A	Stagecraft 1	3
THART 45B	Production and Technical Theatre I	3

TOTAL UNITS REQUIRED FOR DEGREE MAJOR 18

Students earning an AA/AS degree must complete a minimum of 18 units of General Education requirements, the multicultural graduation requirement, and the health requirement, in addition to the program units listed here. Students must complete a total of 60 degree applicable units to earn an AA or AS. Please see your counselor for additional information.

COURSES

THART-10 **3 UNITS**

Introduction To Theatre

TRANSFERABLE TO CSU AND UC
C-ID: THTR 111
54 LECTURE HOURS

This course introduces students to theatre arts, including the production process, play writing, acting, directing, producing, design, criticism and the relations between theatre and society. Students survey different periods,, genres, and theatre practice through play reading, discussion, films, and viewing and critiquing live theatre performance to develop an understanding of theatre as a collaborative art form. Further, the course explores the relationship of theatre to various cultures, to TV and film, and to other arts and humanities. (L) Grades are P/NP Option.

THART-11A **3 UNITS**

Introduction To Acting I

TRANSFERABLE TO CSU AND UC
C-ID: THTR 151
45 LECTURE HOURS
27 LAB HOURS

This course prepares students to apply basic acting theory to performance and develops the skills of interpretation of drama through acting. Special attention is paid to skills for performance, such as memorization, stage movement, vocal production, diction, improvisational technique, characterization, scene study, and interpretation of text. Several monologues and scenes will be developed and presented in class.

THART-11B **3 UNITS**

Introduction To Acting II

TRANSFERABLE TO CSU AND UC
C-ID: THTR 152
45 LECTURE HOURS
27 LAB HOURS

This course continues Introduction to Acting I (THART-11A), further developing the students' understanding of theories and techniques used in the interpretation of drama through acting. The emphasis will be placed on deepening the understanding of the acting process through character analysis, monologues, scenes, pantomime, stage movement, imagination, improvisation, and verse study. Increased emphasis is also placed on acting in more complex scenes and plays. Students will engage in in-depth scenic analysis of classical plays. Grades are P/NP Option.

Prerequisite(s): THART-11A

THART-12A **3 UNITS**

Intermediate Studies in Acting I

TRANSFERABLE TO CSU AND UC
C-ID: THTR 152
45 LECTURE HOURS
27 LAB HOURS

This course covers the application of intermediate acting theories and techniques. It includes analyzing and performing scripts from realistic and stylized drama, audition monologues, scenes, and complex acting exercises. Intermediate development of acting skills including improvisation, craft, vocal production, interpretation, auditioning, stage movement, and character analysis. Participation in an acting showcase, one-act play, or full-length play at end of semester is required. Field trips and/or attendance of live performances may be required. Grades are P/NP Option.

Prerequisite(s): THART-11A or THART-26 or THART-29R or audition based prerequisite challenge is allowed. Students who have the skills and experience through previous stage performance may audition/interview with the instructor and with dean's approval may enter the class.

THART-12B **3 UNITS**

Intermediate Studies in Acting II

TRANSFERABLE TO CSU AND UC
45 LECTURE HOURS
27 LAB HOURS

THART-12B furthers mastery of intermediate acting theories and techniques. Students will analyze and perform realistic, stylized and classical texts as well as devised theatre. Students will prepare a capstone audition portfolio to prepare them for auditions. Students will work on more complex scenes and further refine their skills through higher level acting exercises. The course covers intermediate methods, improvisation, craft, vocal production, interpretation, auditioning, stage movement and character analysis. Participation in an actor showcase, one-act, or full-length play at the end of the semester is required. Field trips and/or attendance of live performances may be required. Grades are P/NP Option.

Prerequisite(s): THART-12A

THART-26 **3 UNITS**

Musical Theatre Workshop

TRANSFERABLE TO CSU
162 LAB HOURS

Fundamentals of musical theatre performance; singing, acting, dancing, orchestra, and technical stagework. Students may specialize in area of interest. Works to be selected from various periods and . Participation in Yuba College production is required. Grades are P/NP Option.

Entrance Requirement(s): Audition: THART 26 is an Intensive course designed to prepare Music and Theatre Arts majors for careers in

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acting, musical performance, and/or performance production. In order to be fully successful in this course, students should already posses some knowledge of theatre performance and production.

THART-29R **V1-3 UNITS**

College Theatre

TRANSFERABLE TO CSU AND UC
C-ID: THTR 191
54 LAB HOURS (1 UNIT)
108 LAB HOURS (2 UNITS)
162 LAB HOURS (3 UNITS)

This course provides instruction and supervised participation in theatre rehearsal and performance including acting, directing, design, and technical work, culminating in a theatre production. Plays will be selected from various periods.

Entrance Requirement(s): Audition required. THART-29R is an Intensive course designed to prepare Theatre Arts majors for careers in acting and/or performance production. in order to be fully successful in this course, students should already possess some knowledge of theatre performance and production.

THART-30 **3 UNITS**

Technical Theatre in Production

TRANSFERABLE TO CSU
C-ID: THTR 192
162 LAB HOURS

Practical experience in the application of production responsibilities in the following: stage management, construction, scenery, properties, lighting, sound, and running crews. Grades are P/NP Option.

Entrance Requirement(s): Audition/Interview required.

THART-32 **3 UNITS**

Film Studies: Focus On .

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

A study of a particular director/artist, genre, or national cinema. Students view and discuss full-length feature films; topic to be specified in class schedule. (L) Grades are P/NP Option.

THART-33 **3 UNITS**

History of Film

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

Survey of the motion picture history; traces the development of the art, technology, and social importance of film during the last 125 years; screenings of significant and representative documentary and experimental films from the silent to the modem era. Grades are P/NP Option.

Limitations on Enrollment: Course not open for credit to students with credit in HUMAN-33 or ENGL-33.

THART-34 **3 UNITS**

Introduction to Film

TRANSFERABLE TO CSU AND UC
54 LECTURE HOURS

Study of film as art and its influence on society, including interpretation, criticism, and technical developments; students view and discuss full-length feature films. (L)

Limitations on Enrollment: Course not open for credit to students with credit in HUMAN-34 or ENGL-34.

THART-45A **3 UNITS**

Stagecraft 1

TRANSFERABLE TO CSU AND UC
C-ID: THTR 171
36 LECTURE HOURS
54 LAB HOURS

Practices, terminology, and organization of contemporary theatre technology; exercises in construction and implementation of all technical aspects of production (sets, lighting, sound, costumes, properties, stage management, make-up). Integrated with Yuba College theatre productions.

THART-45B **3 UNITS**

Production and Technical Theatre I

TRANSFERABLE TO CSU AND UC
C-ID: THTR 172
36 LECTURE HOURS
54 LAB HOURS

Students will be offered a survey of scenery, lighting, sound, costumes, makeup, properties, theatrical equipment and construction techniques through demonstration and laboratory experience. Information is applicable to all formal theatrical applications. The course will introduce best practices for, terminology, and organization of contemporary theatre technology. Students will participate in exercises in construction and implementation of all technical aspects of production (sets, lighting, sound, costumes, properties, stage management, make-up). Grades are P/NP Option.

THART-45C **3 UNITS**

Production and Technical Theatre II

TRANSFERABLE TO CSU
C-ID: THTR 173
36 LECTURE HOURS
54 LAB HOURS

This course involves the study and execution of stagecraft with a focus on stage lighting and emphasis on equipment, control, color and their relationship to design. Grades are P/NP Option.

THART-526 **0 UNITS**

Musical Theater Workshop

162 LAB HOURS

This course is designed to enrich the artistic expression and life quality of older adults through musical theatre. This course provides an opportunity for personal growth and development, group interaction, mental stimulation and physical activity through supervised participation in a college musical theatre production. Physical, mental, social and emotional well-being are stimulated through a variety of creative and expressive musical theatre activities related to rehearsal and live performance including singing, dancing, musical performance, acting, directing, design, and stagecraft. Performing roles require an audition or interview. Grades are Satisfactory Progress (Noncredit).

Entrance Requirement(s): Audition

THART-529 **0 UNITS**

College Theatre

36-108 LECTURE HOURS
54-162 LAB HOURS

This course is designed to enrich the artistic expression and life quality of older adults through theatre. This course provides an opportunity for personal growth and development, group interaction, mental stimulation and physical activity through supervised participation in a college theatre production. Physical, mental, social and emotional well-being are stimulated through a variety of creative and expressive theatre activities related to rehearsal and live performance including

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acting, directing, design, and stagecraft. Acting roles require an audition or interview. Grades are Satisfactory Progress (Noncredit).

Entrance Requirement(s): Audition; in order to be fully successful in this course, students should already possess some knowledge of theatre performance and production.

Theatre Arts Family of Classes

Foundations of Acting:

Family of Classes

(No more than four classes can be attempted within each family of classes listed below. See page 38 for details.)

THART 11A—Introduction to Acting
THART 11B—Introduction to Acting II
THART 12A—Intermediate Studies in Acting I
THART 12B—Intermediate Studies in Acting II

Musical Theatre: Production

Family of Classes

(No more than four classes can be attempted within each family of classes listed below. See page 38 for details.)

THART 26—Musical Theatre Workshop

Theatre:

Family of Classes

(No more than four classes can be attempted within each family of classes listed below. See page 38 for details.)

THART 29R—College Theatre

Musical Theatre:

Family of Classes

(No more than four classes can be attempted within each family of classes listed below. See page 38 for details.)

THART 45A—Stagecraft 1
THART 45B—Production and Technical Theatre I
THART 45C—Production and Technical Theatre II

Veterinary Technology

VETERINARY TECHNOLOGY

ASSOCIATE IN SCIENCE

Some aliied health careers involve caring for animals rather than people. Veterinary technicians learn a variety of skills also found in other allied health professions, including nursing, anesthetic, radiologic, dentistry, emergency, and surgical skills. Examples of employment primarily include veterinary practices serving dog, cat, horse, and farm animals, but also zoos, wildlife rehabilitation centers, biomedical research, public health/food safety, clinical diagnostic laboratories, and such industries as pharmaceutical, pet food, and pet insurance.

General Information: Yuba College offers an Associate of Science (A.S.) Degree in Veterinary Technology. Yuba College also offers a Certificate of Achievement in Veterinary Assistant and Animal Care. Details about each degree can be found below. Interested individuals can also obtain information by visiting our website: https://yc.yccd.edu/vettech/. Individuals may also want to visit the Yuba College Veterinary Technology Facebook page.

For additional questions, please call the Program at (530) 740-1732 or (530) 740-1740, or by emailing akuykend@yccd.edu or kmathis@yccd.edu. Additionally, please consider visiting the Veterinary Technology Program in the 1700 Building, across from the Veteran's Resource Center, on the Marysville campus of Yuba College.

Costs: In addition to the expenses of regularly enrolled students (e.g., living costs, activity fees, books, enrollment fees), Veterinary Technology students have the additional requirements of uniforms, drug and background screening, stethoscope, name badge, and radiation monitoring equipment. Veterinary Technology Program student are eligible for financial aid available to any Yuba College student meeting expected income criteria. An estimated breakdown of the costs associated wth the A.S. degree can be found on the Program website: https://yc.yccd.edu/vetttech/.

Drug Policy: All students enrolled in the Veterinary technology Program are subject to the drug policy which is part of the Student Code of Conduct. Violation of this policymay result in denial of admission or dismissal form the Program. The policy is outlined in the Student Handbook as well as in the Veterninary Technology Program Policy Handbook found on the Program's website: https://yc.yccd.edu/vettech/.

Additionally, in accordance with the California Veterinary Board, a person convicted of certain offenses may not qualify to be licesnsed as a registered verinary technician. Prospective veterinary technology students are strongly urged to consider this stipulation prior to investing substantial time and money if it appears that past convictions could jeopardize an applicant's future eligibility for licensure. Please reach out to the Program if you need help looking into this: at (530) 741-6962 or vettech@yccd.edu, or visit the Veterinary Technology Program in the 1700 Building, across from the Veteran's Resource Center.

Associate of Science (A.S.) Degree in Veterinary Technology:
For the A.S. degree, the Yuba College Veterinary Technology Program (referred to here as the Program) is afull-time course of study that can be completed In two years or extended by completing the General Education, Science and other graduation requirements prior to admission Into the veterinary technology sequence. The latter format Is highly recommended.

The Program is accredited by the American Veterinary Medical Association. Upon program completion, graduates (unless otherwise disqualified by the licensing board) are eligible to take the national licensing examination (the VTNE) to become a Registered Veterinary Technician in the State of California

Prerequisite Course Requirements:

Three prerequisites are required:

1. VETT 91 (Veterinary Assisting). This is an online course that provides an overview of the profession. Please note that an assignment in the course does requireeight hours of job-shadowing at a veterinary clinic.
2. A life science course. Any of the following courses will satisfy this requirement: BIOL 1 (Principles of Biology), BIOL 4 (Human Anatomy), BIOL 10L (General Biology), BIOL 15 (Bioscience), or BIOL 24L (Human Biology with Laboratory).
3. A chemistry course. Any of the following courses will satisfy this prerequisite: CHEM 10 (Concepts of Chemistry), CHEM 2A (Introductory Chemistry), or CHEM 1A (General Chemistry).

Due to the demanding nature of the Program, it is recommended that the prospective students meet with a counselor and create an educational plan. This will allow the student to complete as many general education courses required for the Associate In Science Degree PRIOR to admission to the Veterinary Technology Program.

Students in the veterinary technology program are exempt from the Health/Physical Education and Multicultural Graduation Requirements.

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Please note that several of the A.S. courses may be taken before formally entering the Program, if the student wishes to do so. These courses include:

- VETT 7 Veterinary Business Management
- VETT 8 Large Animal Care and Nursing
- VETT 9 Laboratory Animal Medicine
- VETT 10 Exotics and Wildlife
- VETT 12 Introduction to Veterinary Medical Math
- VETT 55 Veterinary Medical Terminology

Please note that these courses can also be used to obtain the Veterinary Assisting and Animal Care Certificate. See below for more details on the Veterinary Assisting and Animal Care Certificate.

Admissions
Selection of candidates for entry into the Veterinary Technology Program occurs each spring. A completed Veterinary Technology Program application and official college transcripts must be received by the Veterinary Technology Program administrator prior to March 15th in order to be eligible for entrance in the subsequent fall semester. The Program starts a new class cohort each fall semester.

The Veterinary Technology Program application may be accessed from the Program's website under the "Apply" tab: https://yc.yccd.edu/vettech.

Because the number of qualified applicants may exceed the number of available enrollment spaces, meeting minimum requirements does not guarantee admission. Qualified applicants will be notified of their preliminary acceptance into the Program by April 1st.

Attendance and participation in the Veterinary Technology Program Orientation is a mandatory requirement before final acceptance of a candidate. This orientation, held on a Thursday in April, is a half day exploration into the teaching formats, academic and physical demands, and dexterity requirements that the Veterinary Technology Program student can expect to encounter.

Travel and Trainings: Students in the Veterinary Technology Program are required to complete various off site training internships to gain experience and satisfy learning objectives. These training hours are mandatory and additional to required individual course hours and farm care. Travel will be required of all students.

In addition, student in the program will be required to spend 2-6 hours every 1-2 weeks during assigned dates and times caring for the Yuba College Veterinary Technology farm and clinic animals. Time will include weekend and holidays as well as semester breaks, including summer break.

Rabies Prophylasis: Yuba College Veterinary Technology students must be vaccinated against the rabies virus by the beginning of the spring semester of their first year. Spring semester is when students begin the first of their internships as well as their Medical Nursing course.

Rabies is a serious viral disease. Veterinary students and staff may come in contact with animals that have not been vaccinated against rabies or that have unknown vaccination histories.

There are different ways for you to receive the vaccine, including from your own health care provider. Details can be found at the Program website: https://yc.yccd.edu/vettech/.

Students who complete this program should be able to:

1. Apply principles of biomedical sciences to help in disease prevention, treatment, and control in both veterinary and human medicine,
2. Demonstrate entry-level mastery of the hands-on and professional skills relevant to the various probles encountered in veterinary medicine,
3. Research, explain, and formulate preliminary solutions to real-world problems in the form of case studies, a toxicology research paper, and a Capstone project.

NOTE: To progress through the Associate Degree in Veterinary Technology, all courses must be passed with a grade of "C" or better. The Health/Physical Education and Multi-Cultural graduation requirements are satisfied by completion of the Veterinary Technology Program.

REQUIRED COURSES		UNITS
First Semester (fall)		
VETT 1	Introduction to Veterinary Technology	3
VETT 4	Clinical Laboratory Techniques	3
VETT 7	Veterinary Business Management	1
VETT 55	Veterinary Medical Terminology	3
Second Semester (spring)		
VETT 2	Veterinary Medical Nursing	3
VETT 2A	Veterinary Anatomy	3
VETT 3	Pharmacology for Veterinary Technicians	3
VETT 5A	Veterinary Technology Internship A	2
Third Semester (summer)		
VETT 5B	Veterinary Technology Internship B	2
VETT 12	Introduction to Veterinary Medical Math	2
Fourth Semester (fall)		
VETT 5C	Veterinary Technology Internship C	2
VETT 8	Large Animal Care and Nursing	3
VETT 9	Laboratory Animal Medicine	2
VETT 53A	Vet Surgical Nursing and Anesthesia	4
VETT 53B	Veterinary Diagnostic Imaging	3
Fifth Semester (spring)		
VETT 5D	Veterinary Technology Internship D	2
VETT 10	Exotic and Wildlife Medicine	2
VETT 53C	Advanced Veterinary Nursing Techniques	4
VETT 53D	Principles of Veterinary Dentistry	3
VETT 59	Veterinary Technology Board Review	2
TOTAL UNITS REQUIRED FOR DEGREE MAJOR		**52**

Students earning an AA/AS degree must complete a minimum of 18 units of General Education requirements, the multicultural graduation requirement, and the health requirement, in addition to the program units listed here. Students must complete a total of 60 degree applicable units to earn an AA or AS. Veterinary Technology majors are waived the multicultural graduation requirement and the health requirement. Please see your counselor for additional information.

VETERINARY ASSISTANT AND ANIMAL CARE

CERTIFICATE OF ACHIEVEMENT

The Certificate of Achievement in Veterinary Assisting and Animal Care trains students in the skills necessary to care for animals in many of several different workplaces: small animal veterinary hospitals, equine and farm animal practices, animal shelter, exotics and wildlife medicine, lab animal medicine, or public health. The Certificate is designed both for individuals seeking employment as veterinary assistants, as well as for veterinary technology students or veterinary technicians seeking additional training in specific fields such as shelter medicine.

Veterinary assistants are valuable members of the veterinary medical team. The veterinary assistant works under the supervision of the Registered Veterinary Technican and Veterinarian to deliver quality medical care to their animal patients. Upon completion of the Certificate, students will be able to apply principles of animal care, workplace safety, pharmacology, surgery, laboratory skills, imaging skills, and practice management to be effective team members in a veterinary practice setting. The convenient distance learning program

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is ideal for the working professional. It allows more flexibility that a traditional college curriculum and is designed to allow students to complete the Certificate of Achievement in just one year.

In addition to providing the necessary information to upgrade current job skills for those already employed in veterinary facilities, this course of student also provides an excellent preparation for the individual interested in applying to the Yuba College Veterinary Technology Program.

For additional information, please contact the Yuba College Veterinary Technology via phone at (530) 740-1732 of (530) 740-1740, or via email at blochry@yccd.edu, akuykend@yccd.edu, or kmathis@yccd.edu. Please also visit our website (https://yc.yccd.edu/vettech) as well as the Yuba College Veterinary Technology Facebook page. You can also visit the Veterinary Technology program itself in the 1700 Building (across from the Veteran's Resource Center) on the Marysville campus.

Students who complete this program should be able to:

1. Apply critical thinking skills when confronted with issues and problems in veterinary medical practice.
2. Display behavior consistent with the highest professional ethics to foster personal growth and civic responsibility.
3. Demonstrate competence in the husbandry, restraint, and handling of animals to include knowledge of normal and abnormal life processes and the common medical procedures performed in veterinary medical practice.

REQUIRED COURSES		UNITS
VETT 7	Veterinary Business Management	3
VETT 12	Intro To Veterinary Medical Math	2
VETT 52	Human-Animal Bond	3
VETT 55	Veterinary Medical Terminology	3
VETT 91	Veterinary Assisting	3
INTRN 45A	First Semester Internship	2
Complete one course from the following:		
VETT 8	Large Animal Care and Nursing	3
VETT 9	Laboratory Animal Medicine	2
VETT 10	Exotic and Wildlife Medicine	2
VETT 54	Public Health and Infectious Disease	3
VETT 56	Shelter Medicine	3
TOTAL UNITS REQUIRED FOR CERTIFICATE		**18-19**

COURSES

VETT-1 **3 UNITS**

Introduction To Veterinary Technology

TRANSFERABLE TO CSU
36 LECTURE HOURS
54 LECTURE HOURS

This course introduces the first year Veterinary Technology student to the diverse field of veterinary technology. Emphasis on career paths, legal requirements, ethics, animal breeds, patient exams, and medical records. Multiple species will be covered and students will engage in hands-on care of all VT Program animals on a repeating basis throughout the semester. (L)

Entrance Requirement(s): Admission to the Veterinary Technology Program

VETT-2 **3 UNITS**

Veterinary Medical Nursing

TRANSFERABLE TO CSU
36 LECTURE HOURS
54 LAB HOURS

Students will apply principles of physiology to nursing interventions for diseases of common domestic animals (especially dog and cat). Emphasis will be on the following systems: musculoskeletal, special senses (e.g., vision, hearing, balance), nervous, immune, cardiovascular, respiratory, urinary, endocrine, digestive, integument, reproduction, and pregnancy/development/lactation. (L,M,C)

Prerequisite(s): VETT-4, VETT-1 (Sp 23)

Entrance Requirement(s): Admission to the Veterinary Technology Program required.

VETT-2A **3 UNITS**

Veterinary Anatomy

TRANSFERABLE TO CSU
36 LECTURE HOURS
54 LAB HOURS

Gross anatomy of domestic animals. This course will introduce the veterinary technology student to basic anatomy of domestic animals. Topics include anatomical and directional terms common to veterinary medical practice as well as coverage of the skeletal, integumentary, muscular, cardiopulmonary, digestive, urogenital, endocrine, and nervous systems and the special sense organs. The structure and function of the animal body as well as discussion of the similarities and differences among domestic animal species is included. (L,C)

Prerequisite(s): VETT-1; VETT-4

VETT-3 **3 UNITS**

Pharmacology for Veterinary Technicians

TRANSFERABLE TO CSU
54 LECTURE HOURS

Students will apply principles of pharmacology to nursing interventions for diseases of common domestic animals (especially dog and cat). Emphasis will be on the following systems: musculoskeletal, special senses (e.g., vision, hearing, balance), nervous, immune, cardiovascular, respiratory, urinary, endocrine, digestive, integument, reproduction, and pregnancy/development/lactation. The final unit for the semester will be on toxicology. (L,M,C)

Prerequisite(s): VETT-4

VETT-4 **3 UNITS**

Clinical Laboratory Techniques

TRANSFERABLE TO CSU
36 LECTURE HOURS
54 LAB HOURS

Studies of the laboratory techniques and procedures employed in evaluating clinical diagnostic samples. Emphasis will be placed on procedures common to veterinary medicine including hematology, serum chemistry, urinalysis, cytology, immunology, parasitology and microbiology. Topics include: the safe and proper collection of diverse samples, microbial culturing, methods of sample analysis, and the significance of normal and abnormal results. (L)

Entrance Requirement(s): Admission to the Veterinary Technology Program

VETT-5A **2 UNITS**

Veterinary Technology Internship A

TRANSFERABLE TO CSU
108 LAB HOURS

Introduction to the application of veterinary technology procedures at off-campus internship sites under direct supervision of a veterinarian or a registered veterinary technician. Internship sites include veterinary hospitals and clinics, research, and shelters. Rotation through various facilities is required. Apply clinical application of anatomy and physiology, interpersonal skills and team building. (L,M,C)

Prerequisite(s): VETT-1;VETT-4 VETT-16 (Sp 23)

VETT-5B **2 UNITS**

Veterinary Technology Internship B

TRANSFERABLE TO CSU
108 LAB HOURS

Introduction to the application of veterinary technology procedures at off-campus internship sites under direct supervision of a veterinarian or a registered veterinary technician. Internship sites include veterinary hospitals and clinics, research, and shelters. Rotation through various facilities is required. Apply application of knowledge and skills acquired in concurrent course work. Obtain competency in essential nursing tasks. Increase knowledge and ability to operate hospital lab equipment and develop skills to perform basic veterinary laboratory procedures. (L,M,C)

Prerequisite(s): VETT-2; VETT-3; VETT-5A

VETT-5C **2 UNITS**

Veterinary Technology Internship C

TRANSFERABLE TO CSU
108 LAB HOURS

Introduction to the application of veterinary technology procedures at off-campus internship sites under direct supervision of a veterinarian or a registered veterinary technician. Internship sites include veterinary hospitals and clinics, research and shelters. Rotation through various facilities is required. Apply application of knowledge and skills acquired in concurrent course work. Apply skills acquired in radiology, anesthesiology and surgery. (L,M,C)

Prerequisite(s): VETT-5B

VETT-5D **2 UNITS**

Veterinary Technology Internship D

TRANSFERABLE TO CSU
108 LAB HOURS

Introduction to the application of veterinary technology procedures at off-campus internship sites under direct supervision of a veterinarian or a registered veterinary technician. Internship sites include veterinary hospitals and clinics, research and shelters. Rotation through various facilities is required. Application of knowledge and skills acquired in concurrent course work. Provide nursing care to emergency and critical care patients. Administer complex therapeutics. Develop patient care plans. (L,M,C)

Prerequisite(s): VETT-5C; VETT-53A; VETT-53B

VETT-7 **3 UNITS**

Veterinary Business Management

TRANSFERABLE TO CSU
54 LECTURE HOURS

Introduction for the first year Veterinary Technology student to veterinary practice management. Standard office procedures with an emphasis in client relations, education, practice management and computer skills. Ethics in veterinary medicine as well as state and federal regulations governing veterinary practices. (L,M)

VETT-8 **3 UNITS**

Large Animal Care and Nursing

TRANSFERABLE TO CSU
54 LECTURE HOURS

Principles of large animal medicine, surgical nursing and equine field service including performance of a complete physical examination, acquisition of a medical history, animal restraint, clinical aspects of reproductive management, knowledge of various diagnostic and therapeutic procedures, laboratory sample collection, bandaging, and emergency treatment. Additionally, surgical and obstetrical procedures and instruments, herd health, economics, and lameness topics for equine and livestock will be covered. (L,M,C)

VETT-9 **2 UNITS**

Laboratory Animal Medicine

TRANSFERABLE TO CSU
36 LECTURE HOURS

Introduction to laboratory animal medicine. Survey of feeding, common management practices, and care of laboratory animals in a clinical setting. Appropriate methods of animal handling, restraint, management practices, research techniques, husbandry, nursing, care and observation of laboratory species will be emphasized. Students will learn about guidelines, regulations, and legislation governing the use of animals in research. This course will provide information and handling skills which will help the student prepare for AALAS certification. (L,C)

VETT-10 **2 UNITS**

Exotic and Wildlife Medicine

TRANSFERABLE TO CSU
36 LECTURE HOURS

An overview of fundamentals of avian, exotic and wildlife husbandry, physiology, management, and medicine; includes appropriate methods of animal handling, restraint, husbandry, care and observation of exotic and wild species. (L,C)

VETT-12 **2 UNITS**

Intro To Veterinary Medical Math

TRANSFERABLE TO CSU
36 LECTURE HOURS

Applied mathematics as a fundamental communication and technical skill. Review of calculations involving decimals, ratios, fractions and unit conversions as utilized in medical practice for dosage determinations, administration of drugs, prescriptions and intravenous fluid infusion. Course includes analysis of written word problems and real-world case scenarios relevant to veterinary medical practice. (L,M,C)

VETT-52 **3 UNITS**

Human-Animal Bond

54 LECTURE HOURS

Using both anthropological and sociological perspectives, the course explores the unique social relationship humans share with other animals. Students explore the mutual impact humans and animals have on each other over time and across cultures. Learners will critically evaluate the social construction of attitudes towards animals and how these values influence human-nonhuman animal interactions. (L)

VETT-53A **4 UNITS**

Vet Surgical Nursing and Anesthesia

36 LECTURE HOURS
108 LAB HOURS

Principles and techniques involving surgery and anesthesia. Includes preparation and identification of surgical instruments and equipment, routine surgical procedures, anesthesia induction and monitoring, post-surgical care, clean up and surgical record keeping. Multiple species will be covered and students will participate in hands-o care of VT Program animals throughout the semester. Completion of a Capstone Project proposal is required. (L,M,C)

Prerequisite(s): VETT-2; VETT-2A; VETT-3

VETT-53B **3 UNITS**

Veterinary Diagnostic Imaging

36 LECTURE HOURS
54 LAB HOURS

Principles and techniques of radiographic imaging. Includes the production of x-rays, radiographic equipment, safety management, and radiographic quality. Also includes diagnostic radiographics and ultrasounds, positioning of patients, darkroom techniques and x-ray processing.

Prerequisite(s): VETT-2A; VETT-2; VETT-3

VETT-53C **4 UNITS**

Advanced Veterinary Nursing Techniques

36 LECTURE HOURS
108 LAB HOURS

Principles and techniques involving veterinary nursing. Emphasis on venipuncture, catherization, fluid therapy preparation, nursing care and behavior of large and small animals, preventive medicine, nutrition, record keeping and medical procedures. Also includes mentoring techniques, teamwork, communications, and health problem assessment involving kennel management. Multiple species will be covered and students will participate in hands-on care of VT Program animals throughout the semester. Completion of a Capstone Project is required. (L,M,C)

Prerequisite(s): VETT-53A; VETT-53B

VETT-53D **3 UNITS**

Principles of Veterinary Dentistry

36 LECTURE HOURS
54 LAB HOURS

Principles and techniques involving veterinary dentistry. Includes preparation and identification of dental instruments and equipment, routine dental procedures, dental charting, the oral examination, oral radiography, orthodontics, pathophysiology and dental emergencies. The laboratory portion of the course utilizes demonstrations, laboratory exercises, group activities, online case studies and lectures to illustrate the principles presented in the lecture. (L,M,C)

Prerequisite(s): VETT-53A; VETT-53B

VETT-54 **3 UNITS**

Public Health and Infectious Disease

54 LECTURE HOURS

This course introduces the core concepts of public health emphasizing zoonotic and infectious diseases important to both human and animal health. Collaborative efforts between human and veterinary medical professions through the “One Health Initiative” will be discussed, including issues and developments in food safety, global health and the principles of epidemiology in risk assessment and effective public health interventions.

VETT-55 **3 UNITS**

Veterinary Medical Terminology

54 LECTURE HOURS

This course guides learners through the process of reading, writing, and comprehending medical terminology used in the veterinary medical field including analysis and origin of word roots, prefixes and suffixes. Additionally word construction, definitions, and use of words related to the body systems are covered. Topics include the pronunciation, spelling and definition of word parts and vocabulary terms unique to the anatomy, clinical pathology, and treatment of animals. Lectures demonstrate the importance of proper vocabulary usage in patient records. (L,C)

VETT-56 **3 UNITS**

Shelter Medicine

54 LECTURE HOURS

This course explores the origin of animal shelters as well as pet population dynamics. Students will analyze data about animal shelter systems and operations, devising solutions for identified health and welfare concerns. Topics include: behavioral assessment, infectious disease prevention and control, medical and emergency care. (L,C)

VETT-59 **2 UNITS**

Veterinary Technology Board Review

36 LECTURE HOURS

Review of pertinent subject matter in preparation for the national licensing examination for veterinary technicians (the VTNE). Includes a review of the nine content areas that comprise the VTNE. Also includes test taking skills, test anxiety reduction techniques and practice board exams; includes information on exam application processes. (L,M,C)

Prerequisite(s): VETT-53A

VETT-91 **3 UNITS**

Veterinary Assisting

54 LECTURE HOURS

Concepts of veterinary medicine needed to function effectively as a veterinary assistant, veterinary receptionist, kennel staff or animal shelter worker. This course does not lead to the AS Degree in Veterinary Technology but can be used as a step towards entry into that program. (L)

Welding

WELDING TECHNOLOGIES

ASSOCIATE IN SCIENCE

The Welding program teaches curriculum that is designed to meet the minimum skill standards established by the American Welding Society (AWS) for entry-level welders. Our comprehensive program develops a student’s skills in metals cutting and joining processes. Training is given in both theory and practical skills in the various phases of welding and cutting. This includes introductory to advanced methods plasma and air carbon arc cutting, oxyacetylene cutting, SMAW (stick), GTAW (TIG) welding, GMAW (MIG) welding, and FCAW (flux core), welding inspecting, testing principles and fabrication techniques, and other processes. Our classes are conducted in laboratories outfitted with modern industrial welding, cutting, CNC plasma, forming,

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fixturing, tube and pipe shaping and other fabrication equipment. Entry-level welders are employed in a wide range of industries that use welding and welding-related tasks as project managers, supply salespeople, and teachers, or possibly pursue a higher degree.

Students who complete this program should be able to:

1. Demonstrate appropriate workplace safety policies and procedures during welding and fabrication operations.
2. Demonstrate minimum competency in major welding processes used in industry.
3. Recognize and interpret technical drawings in planning and fabrication projects.

REQUIRED COURSES		UNITS
DRAFT 20	Blueprint and Specifications Reading	3
MFGT 20	Principles of Machine Shop	3
WELD 10	Introduction to Shielded Metal Arc Welding (SMAW)	4
WELD 12	Intermediate Shielded Metal Arc Welding (SMAW)	4
WELD 20	Introduction to Gas Metal Arc Welding (GMAW)	4
WELD 22	Intermediate Gas Metal Arc Welding (GMAW)	4
WELD 40	Introduction to Gas Tungsten Arc Welding (GTAW)	4
WELD 50	Introduction to Structural Steel and Flux Cored Arc Welding (FCAW)	4
WELD 85	Structural Design and Fabrication	4
Complete a minimum of 3 units from the following courses:		
AUTO 22	Hydraulics (Fluid Power)	3
CWEE 45A	Occupational Work Experience-Volunteer	1-4
CWEE 45B	Occupational Work Experience-Paid	1-4
MFGT 21	Intermediate Machine Shop	3
WELD 52	Intermediate Structural Steel and Flux Cored Arc Welding (FCAW)	4
WELD 62	Pipe Welding Fundamentals	4
WELD 64	Advanced Pipe Welding	4
TOTAL UNITS REQUIRED FOR DEGREE MAJOR		**37**

Students earning an AA/AS degree must complete a minimum of 18 units of General Education requirements, the multicultural graduation requirement, and the health requirement, in addition to the program units listed here. Students must complete a total of 60 degree applicable units to earn an AA or AS. Please see your counselor for additional information.

ADVANCED WELDING TECHNOLOGIES

CERTIFICATE OF ACHIEVEMENT

Upon successful completion of the advanced welding certificate, the student will demonstrate skills, knowledge, and training for employment in entry-level positions including industrial occupations in metal shops, all maintenance positions, sheet metal and metal fabrication shops, and many apprenticeship programs.

Students who complete this program should be able to:

1. Demonstrate introductory skills in SMAW, GMAW, GTAW, OAC and PAC.
2. Demonstrate a knowledge of layout and fixturing and work holding in project design.

REQUIRED COURSES		UNITS
DRAFT20	Blueprint and Specifications Reading	3
MFGT 20	Principles of Machine Shop	3
WELD 10	Introduction to Shielded Metal Arc Welding (SMAW)	4
WELD 12	Intermediate Shielded Metal Arc Welding (SMAW)	4
WELD 20	Introduction to Gas Metal Arc Welding (GMAW)	4
WELD 22	Intermediate Gas Metal Arc Welding (GMAW)	4
WELD 40	Introduction to Gas Tungsten Arc Welding (GTAW)	4
WELD 50	Introduction to Structural Steel and Flux Cored Arc Welding (FCAW)	4
WELD 85	Structure Design and Fabrication	4
TOTAL UNITS REQUIRED FOR CERTIFICATE		**34**

FABRICATION AND MANUFACTURING METHODS

CERTIFICATE OF ACHIEVEMENT

The fabrication and metalworking certificate will introduce students to fabrication and metal working skills with sheet metal and structural applications. Students will also learn to use both manual and automated fabrication and metalworking equipment. Students will learn manual machining skills using manual equipment. Students will also learn the design process and use of CNC machining equipment.

Students who complete this program should be able to:

1. Demonstrate appropriate workplace safety policies and procedures during welding and fabrication operations.
2. Demonstrate minimum competency in major welding processes used in industry.
3. Recognize and interpret technical drawings in planning and fabrication projects.

REQUIRED COURSES		UNITS
DRAFT20	Blueprint and Specifications Reading	3
MFGT 20	Principles of Machine Shop	3
MFGT 34	Computer Numerical Control	4
MFGT 35	Computer Aided Manufacturing	3
MFGT 60	Problems in Manufacturing Technology	3
WELD 83	GMAW/GTAW Production Welding	4
WELD 84	Applied Fabrication Welding	4
WELD 85	Structure Design and Fabrication	4
WELD 88	Welding Technical Problems	4
TOTAL UNITS REQUIRED FOR CERTIFICATE		**32**

INTRODUCTORY WELDING TECHNOLOGIES

CERTIFICATE OF ACHIEVEMENT

This certificate will introduce a variety of welding and cutting processes which students will experience in their welding career. This will help students to understand the various processes and help them to make decisions which will help them focus their efforts for future employment. Students will learn and understand the usage of the SMAW, GMAW, GTAW, FCAW and other welding and cutting processes.

Students who complete this program should be able to:

1. Demonstrate introductory skills in SMAW, GMAW, GTAW, OAC and PAC.

REQUIRED COURSES		UNITS
WELD 10	Introduction to Shielded Metal Arc Welding (SMAW)	4
WELD 20	Introduction to Gas Metal Arc Welding (GMAW)	4
WELD 40	Introduction to Gas Tungsten Arc Welding (GTAW)	4
WELD 50	Introduction to Structural Steel and Flux Cored Arc Welding (FCAW)	4
TOTAL UNITS REQUIRED FOR CERTIFICATE		**16**

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COURSES

WELD-10 **4 UNITS**

Introduction To Shielded Metal Arc Welding (SMAW)

TRANSFERABLE TO CSU
54 LECTURE HOURS
54 LAB HOURS

This course advances beginning arc welding skills with an emphasis on Shielded Metal Arc Welding (SMAW). Power sources, electrode identification, weldability of metals, joint design, air arc, oxyacetylene cutting, and introduction to other welding processes are covered. Activities include learning to weld stringer and weave beads, and producing butt and fillet welds in the flat and horizontal positions. Welds will be performed to the AWS welding standards. Grades are P/NP Option.

WELD-12 **4 UNITS**

Intermediate Shielded Metal Arc Welding (SMAW)

TRANSFERABLE TO CSU
54 LECTURE HOURS
54 LAB HOURS

This course covers intermediate arc welding skills with emphasis on vertical and overhead welding with the Shielded Metal Arc Welding (SMAW) process. Course activities prepare the student for weld certification, pipe welding and advanced arc welding classes. Weld symbols, joint preparation, weld codes, AWS standards and weld alloys are covered.

Prerequisite(s): WELD-10

WELD-20 **4 UNITS**

Introduction To Gas Metal Arc Welding (GMAW)

TRANSFERABLE TO CSU
54 LECTURE HOURS
54 LAB HOURS

This course emphasizes developing Gas Metal Arc Welding (GMAW) skills on light gauge steel. Students will learn GMAW (also known as MIG) welding applications and variables and how each affect their welds. Topics include: inert shielding gases and mixtures, as well as setting up and adjusting GMAW (MIG) equipment to ensure the best weld quality.

WELD-22 **4 UNITS**

Intermediate Gas Metal Arc Welding (GMAW)

TRANSFERABLE TO CSU
54 LECTURE HOURS
54 LAB HOURS

This is an intermediate course with an emphasis on vertical and overhead welding. Designed for the student interested in improving upon the Gas Metal Arc Welding (GMAW) skills learned in Weld 20. This course emphasizes skills needed for entry into the work force as a GMAW (also known as MIG) welder. Grades are P/NP Option.

Prerequisite(s): WELD-20

WELD-40 **4 UNITS**

Introduction To Gas Tungsten Arc Welding (GTAW)

TRANSFERABLE TO CSU
54 LECTURE HOURS
54 LAB HOURS

This course is an introduction to the Gas Tungsten Arc Welding (GTAW) process. The course covers welding techniques for welding mild steel, aluminum and stainless steel. The course will stress welding applications on flat and pipe stock in all positions to develop GTAW (also known as TIG) welding skills. Course content will include metal identification and welding symbols. Grades are P/NP Option.

WELD-42 **4 UNITS**

INTERMEDIATE GAS TUNGSTEN ARC WELDING (GTAW)
TRANSFERABLE TO CSU
54 LECTURE HOURS
54 LAB HOURS

This is an intermediate course with an emphasis on vertical and overhead Gas Tungsten Arc Welding (GTAW). This class is designed for the student who is interested in improving his/her beginning skills in order to prepare for entry into the job force as a GTAW (also known as TIG) welder. Grades are P/NP Option.

Prerequisite(s): WELD-40

WELD-50 **4 UNITS**

Introduction to Structural Steel and Flux Cored Arc Weld (FCAW)

54 LECTURE HOURS
54 LAB HOURS

This course emphasizes developing skills on structural steel and Flux Cored Arc Welding (FCAW) practices. Related instruction will include ferrous metal identification and welding characteristics, FCAW welding applications and variable, dual shield inert shielding gases and mixtures. Students will troubleshoot FCAW equipment and welds completed in all positions. Grades are P/NP Option.

WELD-52 **4 UNITS**

Intermediate Structural Steel and Flux Cored Arc Welding (FCAW)

54 LECTURE HOURS
54 LAB HOURS

This course emphasizes improving skills in structural steel and flux cored arc welding (FCAW) practices. Related instruction will include: ferrous metal identification and welding characteristics, FCAW welding applications and variables, dual shield inert shielding gases and mixtures, troubleshooting FCAW equipment, and welding in all positions. Grades are P/NP Option.

Prerequisite(s): WELD-50

WELD-62 **4 UNITS**

Pipe Welding Fundamentals

54 LECTURE HOURS
54 LAB HOURS

This course covers fundamentals of pipe welding with emphasis on open groove pipe joints and pipe joint preparation using oxy-fuel cutting, plasma cutting, and proper grinding techniques. The course emphasizes shielded metal arc welding (SMAW) but will introduce students to other welding processes related to welding pipe in all positions. Grades are P/NP Option.

Prerequisite(s): WELD-10 or WELD-12 or WELD-20 or WELD-40

WELD-64 **4 UNITS**

Advanced Pipe Welding

54 LECTURE HOURS
54 LAB HOURS

This is an advanced pipe welding course with an emphasis on ASME, AWS and API certification. Course instruction includes pipe welding codes, and classification and identification of pipe and pipe welding procedures. Completion of the class does not guarantee certification unless welding procedure qualification tests are passed. Grades are P/NP Option.

Prerequisite(s): WELD-62

WELD-83 **4 UNITS**

GMAW/GTAW Production Welding

54 LECTURE HOURS
54 LAB HOURS

This course is an introduction to gas tungsten arc welding (GTAW) and gas metal arc welding (GMAW). It covers plasma art cutting, application of processes, and use of a track cutter. Students will be introduced to manual and Computer Numerical Control (CNC) plasma cutting. Grades are P/NP Option.

WELD-84 **4 UNITS**

Applied Fabrication Welding

54 LECTURE HOURS
54 LAB HOURS

This course focuses on project design, metal fabrication, and fabrication methods. Students will receive instruction on designing, cutting, assembling, and welding. Students will learn sheet metal design and fabrication techniques utilizing manual and automated equipment. Grades are P/NP Option.

WELD-85 **4 UNITS**

Structure Design and Fabrication

54 LECTURE HOURS
54 LAB HOURS

Structural weld design and fabrication of weldments. Operation of mechanized iron workers, tubular benders, press brakes and other fabrication equipment. Students will receive instruction on utilization of blueprints, welding symbols, cost estimation, and layout techniques, in regards to structural steel applications. (C) Grades are P/NP Option.

WELD-88 **4 UNITS**

Welding Technical Problems

54 LECTURE HOURS
54 LAB HOURS

Individualized instruction in special topics, including weld testing and certification, industry standards, A.N.S.I., A.W.S., A.P.I., A.S.M.E., research, and special welding processes and projects. (C) Grades are P/NP Option.

WELD-89 **2 UNITS**

Agriculture Welding

18 LECTURE HOURS
54 LAB HOURS

Emphasizes the development of minimum skill standards in welding. The SMAW (shielded metal arc welding), OFW(Oxy-Fuel Welding), and OFC Oxy-Fuel Cutting) processes are covered. The qualification and certification standards for entry level welders as established by the American Welding Society will be covered. Introduction to GMAW, GTAW, FCAW, Plasma Arc cutting and technologies in the welding industry. (L) Grades are P/NP Option.