

Laney College Course Catalog Supplement 2017-18





TABLE OF CONTENTS

BOUT THIS SUPPLEMENT
ACCURACY STATEMENT
Course Additions
Course Changes
Course Corrections
Course Deactivations
28-ID Status
PROGRAM ADDITIONS
PROGRAM CHANGES
PROGRAM CORRECTIONS

Laney College does not discriminate on the basis of age, race, color, sex, gender, sexual orientation, national origin, or disability.





About This Supplement

The Laney College Catalog Supplement for 2017-18 is a summary of additions, deactivations, corrections, and changes that have been made in curriculum and policies affecting students since the publication of the 2017-18 Catalog. Changes to curriculum are made on an ongoing basis throughout the academic year and are usually effective for a subsequent term. All individual course additions and changes show the effective term at the end of each entry. All program additions and changes show the effective term after the program title.

Notations		
F17 = Fall 2017	M18 = Summer 2018	
S18 = Spring 2018	F18 = Fall 2018	

Accuracy Statement

Laney College endeavors to present its programs and policies to the public accurately and fairly. Those responsible for the preparation of the Catalog, the Catalog Supplement, and Schedules of Classes, and all other public announcements make every effort to ensure that the information presented is correct and up-to-date. However, the College reserves the right to add, amend, or repeal the curriculum and any rules, regulations, policies and procedures. The College assumes no responsibility for program changes or publication errors beyond its control.



	COURSE ADDITIONS	
DEPT/NO.	COURSE TITLE/INFORMATION	EFF TERM
CHIN 8	Chinese Study Abroad 2-5 units, 1.5-3 hours lecture, 3-6 hours laboratory (GR or P/NP) Prerequisite(s): Must have the instructor and the Dean's approval Acceptable for credit: CSU	M17
	In-depth study of Chinese language and culture through immersion: Tradition, history, geography and economic development. 1107.00	
CHIN 22A	 Chinese for Bilingual Speakers I 5 units, 5 hours lecture (GR or P/NP) Prerequisite(s): Oral fluency in at least one Chinese dialect other than standard Mandarin and knowledge of approximately 800-1000 Chinese characters. Acceptable for credit: CSU/UC High beginning level of Mandarin for students whose native language is Chinese or other linguistically qualified students: Intensive training in written and spoken Mandarin with emphasis on Pinyin development, lexical expansion, critical reading and composition. This course is again along the training in which are the sport of the provided student. 	F17
CIS 299	Survey Course for Digital Media/CIS [CIS/Raspberry Pi] 0.5 units, 0.25 hours lecture, 0.75 hours laboratory (GR or P/NP) Introduction to Computer Information Systems Industry: Using the Raspberry Pi. Part of a fou part series including MEDIA 299, GRART 299 and PHOTO 299.	S18 r-
CONMT 466H	Occupational Work Experience in Construction Management 1-4 units, 3-12 hours laboratory (GR) Supervised employment providing opportunities in construction management or a related fiel Develop desirable work habits, become a productive, responsible individual, and extend education experience with on the job training. Course study under this section may be repeated three times for a maximum of 16 units for occupational or a combination of general and occupational work experience education (including Regular and Alternate Plan and General/Occupational/Apprentice Work Experience). 0957.00	M18 d: d



	COURSE ADDITIONS	
DEPT/NO.	COURSE TITLE/INFORMATION	EFF TERM
CULIN 472B	Occupational Work Experience in Culinary Arts/Baking	M18
	1-4 units, 3-12 hours laboratory (GR)	
	Supervised employment providing opportunities in culinary arts/baking or a related field: Develop desirable work habits, become a productive, responsible individual, and extend education experience with on the job training. Course study under this section may be repeated three times for a maximum of 16 units for occupational or a combination of general and occupational work experience education (including Regular and Alternate Plan and General/Occupational/Apprentice Work Experience). 1306.30	d
CULIN 472C	Occupational Work Experience in Culinary Arts/Cooking 1-4 units, 3-12 hours laboratory (GR)	M18
	Supervised employment providing opportunities in culinary arts/cooking or a related field: Develop desirable work habits, become a productive, responsible individual, and extend education experience with on the job training. Course study under this section may be repeated three times for a maximum of 16 units for occupational or a combination of general and occupational work experience education (including Regular and Alternate Plan and General/Occupational/Apprentice Work Experience)	d
DANCE 92	Salsa I 1 units, 3 hours laboratory (GR or P/NP) Acceptable for credit: CSU/UC	S18
	Study and development of beginning skills and techniques of Cuban and Latin Salsaemphasizing the evolution of Salsa dance from its origins to present day.1008.00	
E/ET 233	Electrician State Exam Preparation 2 units, 2 hours lecture (GR) Prerequisite(s): ENGIN 35	M18
	Preparation for the California state exam: Electrician Trainee exam applying National Electric Code in residential and commercial applications. 0901.00	



COURSE ADDITIONS

DEPT/NO.	COURSE TITLE/INFORMATION	EFF TERM
ENGIN 36	Engineering Mechanics of Materials 3 units, 3 hours lecture (GR) Recommended Preparation: E/ET 207B or 227 or completed the Electrical Technology certificate and are going to take the State Electrician Exam.	M18
	Application of principles of statics to materials: Concepts of stress, strain, and material behavior to analyze simple structural members under axial, bending, and torsional loadings; multi-axial treatment of stresses and strains, tensor transformations, yielding and failure. 0934.00	:
GRART 299	Survey Course for Digital Media/CIS [Graphic Arts] 0.5 units, 0.25 hours lecture, 0.75 hours laboratory (GR or P/NP)	S18
	Introduction to the Digital Media Industry [Graphic Arts]: Introduction to discipline of graphic design for print and electronic output. Part of a four-part series including MEDIA 299, PHOTO 299 and CIS 299. 1030.00	
HLTED 5	Weight Management and Fitness 3 units, 3 hours lecture (GR or P/NP) Acceptable for credit: CSU/UC	F17
	Integrated approach to weight management: Physical fitness concepts, nutritional and dietary applications, body composition analysis and behavioral strategies to improve individual health and fitness. 0837.00	
LABST 456H	Occupational Work Experience in Labor Studies 1-4 units, 3-12 hours laboratory (GR)	M18
	Supervised employment providing opportunities in labor studies or a related field: Develop desirable work habits, become a productive, responsible individual, and extend education experience with on the job training. Course study under this section may be repeated three times for a maximum of 16 units for occupational or a combination of general and occupational work experience education (including Regular and Alternate Plan and General/Occupational/Apprentice Work Experience). 0516.00	

Laney College Catalog Supplement 2017-2018

	COURSE ADDITIONS	
DEPT/NO.	COURSE TITLE/INFORMATION	EFF TERM
MACH 211	Dimensional Metrology 5 units, 3 hours lecture/6 hours laboratory (GR or P/NP) Eligible for credit by examination.	S18
	Introduction to the operation and theory of machine tools focusing on shop safety: Blueprint reading and engineering drawings, precision measurement, layout, tool grinding, speed and feed calculations, drill-press operation, lathe operation (turning and threading), and mill setup and operation. 0956.30	
MATH 230	Elementary and Intermediate Algebra for Business or STEM majors 6 units, 6 hours lecture (GR) Prerequisite(s): MATH 250 or 225 or 253 or Appropriate Placement through the multiple measures assessment process.	F17
	A combined course in algebra: Systems of equations: inequalities, graphs and functions; radicals, quadratic polynomials, rational expressions; exponential and logarithmic functions, and problem solving, with emphasis on knowledge skills appropriate for students pursuing a major in STEM (Science, Technology, Engineering, Mathematics) or Business. 1701.00	
MATH 261	Pre-Algebra Foundations 5 units, 5 hours lecture (GR or P/NP)	M18
	Topics from Arithmetic and Pre-Algebra: Use of basic arithmetic in application problems, estimation, the real number system, variables and linear equations, percents, proportions and unit conversion. Not open to students who have completed MATH 253. 1702.00	
MEDIA 299	Survey Course for Digital Media/CIS [Film/Video/Audio] 0.5 units, 0.25 hours lecture, 0.75 hours laboratory (GR or P/NP)	S18
	Introduction to the Digital Media Industry [Media Communications]: Planning a video production; scripting, cameras and microphones, audio, editing, dynamic effects, distributing t a web page. Part of a four-part series including GRART 299, PHOTO 299 and CIS 299.	0

0604.20



COURSE ADDITIONS			
DEPT/NO.	COURSE TITLE/INFORMATION		EFF TERM
РНОТО 299	Survey Course for Digital Media/CIS [Photography] 0.5 units, 0.25 hours lecture, 0.75 hours laboratory (GR or P/NP)		S18
	Introduction to the Digital Media Industry [Photography]: Camera use; input and output to print; design; darkroom; photojournalism. Part of a four-part series incl 299, MEDIA 299 and CIS 299.	l process; uding GRART 1012.00	
РНОТО 468А	Occupational Work Experience in Photography 1-4 units, 3-12 hours laboratory (GR)		M18
	Supervised employment providing opportunities in photography or a related field desirable work habits, become a productive, responsible individual, and extend e experience with on the job training. Course study under this section may be repea- times for a maximum of 16 units for occupational or a combination of general and work experience education (including Regular and Alternate Plan and General/Occupational/Apprentice Work Experience).	d: Develop ducation ated three l occupational 1012.00	
POSCI 16	State and Local Government 3 units, 3 hours lecture (GR or P/NP) Acceptable for credit: CSU		M18
	Survey of government institutions and politics in California and the San Francisco Development of public policy and current issues such as federalism, elections, tax use, and political parties.	o Bay Area; kation, land 2207.00	
SOCSC 19	Introduction to Global Studies 3 units, 3 hours lecture (GR or P/NP) Acceptable for credit: CSU		M18
	Survey of globalization: Role of geography, institutions, and major actors; history globalization; debates related to globalization; interdependence and conflict betw systems; global citizenship.	r of reen different 2201.00	



	COURSE ADDITIONS				
DEPT/NO.	COURSE TITLE/INFORMATION	EFF TERM			
SOCSC 20	Global Issues	M18			
	3 units, 3 hours lecture (GR or P/NP) Acceptable for credit: CSU				
	Global issues with emphasis on several major areas of concern: Population trends, economic development and inequality, basic human needs (for food, water health care), human rights, international conflict and security concerns, and environmental problems. 2201.00)			
SPAN 40	Hispanic Civilization and Culture	S18			
	5 units, 5 hours lecture (GR or P/NP)				
	Recommended Preparation: SPAN 2A or 22A				
	Acceptable for credit: CSU/UC				
	Study of Hispanic civilization and culture: Readings in Spanish designed to develop active				
	language skills. 1105.00				
SPFT 37D	Core and Restore IV - Experienced	F17			
	0.5 units, 2 hours laboratory (GR or P/NP)				
	Activity class: Development of experienced level abdominal and core strength and stability in	l			
	conjunction with using a roller to decrease stress and muscle tension throughout the body, as				
	well as providing muscular rehabilitation. 0835.00				



COURSE CHANGES			
DEPT/NO	CHANGE COURSE FROM	CHANGE COURSE TO:	EFF TERM
ARCH 10	Course Title: Introduction to Design Professions and Architectural Administration Course Description: Introduction to the history, practice and administration of architecture and related design professions: Operations, coordination and management of an	Course Title: Introduction to Architecture Course Description: Introduction to the history and practice of architecture and related design professions: Social, technological and environmental considerations encountered during the architectural design/development of the built	M18
	architectural office.	environment.	
ARCH 23	Course Description: Continuation of A/ET 13: Advanced study and practice in lettering, freehand sketching, and detailing of a self- designed residence; preliminary design and working drawings; simple development of perspectives and rendering of multi-dwelling complex or small commercial buildings; application of the use of reinforced concrete; use of Uniform Building Code in the semester project design.	Course Description: Continuation of ARCH 13: Advanced study and practice in lettering, freehand sketching and detailing of self-designed residence, preliminary design and working drawings; simple development of perspectives and rendering of multi-dwelling complex or small commercial buildings; application of the use of reinforced concrete; use of Uniform Building Code in the semester project design.	M18
ARCH 43	Course Description: Design and development of a commercial or public building: Site analysis and design; design and provision for structural, mechanical and electrical systems; adherence to accepted industry production, drafting and rendering practices for design and contract drawing; principles of specification writing and office practice; field trips to construction sites and architects' offices.	Course Description: Continuation of ARCH 33: Design and development of a commercial or public building; Site analysis and design; design and provision for structural, mechanical and electrical systems; adherence to accepted industry production, drafting and rendering practices for design and contract drawing; principles of specification writing and office practice; field trips to construction sites and architects' offices.	M18



	CC	OURSE CHANGES	
DEPT/NO.	CHANGE COURSE FROM:	CHANGE COURSE TO:	EFF TERM
ARCH 104A	Class Hours: 2.00 Lec/4.00 Lab Grading: GR	Class Hours: 2.00 Lec/3.00 Lab Grading: GR or P/NP	M18
ARCH 107	Grading: GR	Grading: GR or P/NP	M18
ARCH 111	Course Title: Introduction to Sustainable Architectural Design Applications	Course Title: Sustainable Architectural Design	M18
ARCH 121A	Course Title: Introduction to Building Information Modeling with Autodesk Revit Course Description: Introduction to Building Information Modeling (BIM) using Autodesk Revit: Use of computer and software to develop plans, details, sections, elevations and schedules from Revit generated Building Information Model.	Course Title: Introduction to Building Information Modeling (BIM) Course Description: Introduction to Building Information Modeling (BIM): Use of computer and software to develop plans, details, sections, elevations and schedules from Revit generated Building Information Model.	M18
ARCH 121B	Course Title: Advanced Building Information Modeling with Autodesk Revit Course Description: Advanced concepts in Building Information modeling (BIM) using Autodesk Revit: Development of plans, details, sections, elevations and schedules from Revit generated Building Information Model.	Course Title: Advanced Building Information Modeling (BIM) Course Description: Advanced concepts in Building Information modeling (BIM): Development of plans, details, sections, elevations and schedules from Revit generated Building Information Model.	M18



COURSE CHANGES			
DEPT/NO.	CHANGE COURSE FROM:	CHANGE COURSE TO:	EFF TERM
ARCH 200	Course Description: Open laboratory for working on selected projects: Provides an opportunity for development of advanced projects of individual interest.	Course Description: Open laboratory: upgrading of specific architect skills, and selected architect projects.	M18
ARCH 204	Prerequisite(s): ARCH 104A	Prerequisite(s): ARCH 104A, 121A, 121B, and 125 or Instructor's approval	M18
ART 146	Course Description: Continued study: advanced research and art practice of environmental and social justice issues.	Course Description: Continued study: Advanced research and art practice of environmental and social justice issues.	S18
BUS 456A	Corequisite(s): During regular semesters, students must enroll in a minimum of seven units including Cooperative Work Experience Education. During summer sessions, students must enroll in one other class in addition to Cooperative Work Experience Education. Repeatability: None Course Description: Supervised employment providing opportunities to become a productive, responsible individual and to extend learning in a chosen occupational field.	Corequisite(s): None Repeatability: Course study under this section may be repeated three times. Course Description: Supervised employment providing opportunities in accounting or a related field: Develop desirable work habits, become a productive, responsible individual, and extend education experience with on the job training. Course study under this section may be repeated three times for a maximum of 16 units for occupational or a combination of general and occupational work experience education (including Regular and Alternate Plan and General/Occupational/Apprentice Work Experience).	M18



DEPT/NO.	CHANGE COURSE FROM:	CHANGE COURSE TO:	EFF TERM
BUS 456C	Corequisite(s):	Corequisite(s):	
	During regular semesters, students	None	
	must enroll in a minimum of seven		
	units including Cooperative Work	Repeatability:	
	Experience Education. During summer	Course study under this section may be repeated three	
	sessions, students must enroll in one	times.	
	other class in addition to Cooperative		
	Work Experience Education.	Course Description:	
		Supervised employment providing opportunities in	M18
	Repeatability:	accounting or a related field: Develop desirable work	WIIO
	None	habits, become a productive, responsible individual,	
		and extend education experience with on the job	
	Course Description:	training. Course study under this section may be	
	Supervised employment providing	repeated three times for a maximum of 16 units for	
	opportunities to become a productive,	occupational or a combination of general and	
	responsible individual and to extend	occupational work experience education (including	
	learning in a chosen occupational field.	Regular and Alternate Plan and	
		General/Occupational/Apprentice Work Experience).	
BUS 456D	Corequisite(s):	Corequisite(s):	
	During regular semesters, students	None	
	must enroll in a minimum of seven		
	units including Cooperative Work	Repeatability:	
	Experience Education. During summer	Course study under this section may be repeated three	
	sessions, students must enroll in one	times.	
	other class in addition to Cooperative		
	Work Experience Education.	Course Description:	
		Supervised employment providing opportunities in	M10
	Repeatability:	accounting or a related field: Develop desirable work	IVI IO
	None	habits, become a productive, responsible individual,	
		and extend education experience with on the job	
	Course Description:	training. Course study under this section may be	
	Supervised employment providing	repeated three times for a maximum of 16 units for	
	opportunities to become a productive,	occupational or a combination of general and	
	responsible individual and to extend	occupational work experience education (including	
	learning in a chosen occupational field.	Regular and Alternate Plan and	
		General/Occupational/Apprentice Work Experience)	



DEPT/NO.	CHANGE COURSE FROM:	CHANGE COURSE TO:	EFF TERM
BUS 456I	Corequisite(s): During regular semesters, students must enroll in a minimum of seven units including Cooperative Work Experience Education. During summer sessions, students must enroll in one other class in addition to Cooperative Work Experience Education. Repeatability: None Course Description: Supervised employment providing opportunities to become a productive, responsible individual and to extend learning in a chosen occupational field.	Corequisite(s): None Repeatability: Course study under this section may be repeated three times. Course Description: Supervised employment providing opportunities in accounting or a related field: Develop desirable work habits, become a productive, responsible individual, and extend education experience with on the job training. Course study under this section may be repeated three times for a maximum of 16 units for occupational or a combination of general and occupational work experience education (including Regular and Alternate Plan and General/Occupational/Apprentice Work Experience).	M18
BUS 456J	Corequisite(s): During regular semesters, students must enroll in a minimum of seven units including Cooperative Work Experience Education. During summer sessions, students must enroll in one other class in addition to Cooperative Work Experience Education. Repeatability: None Course Description: Supervised employment providing opportunities to become a productive, responsible individual and to extend learning in a chosen occupational field.	Corequisite(s): None Repeatability: Course study under this section may be repeated three times. Course Description: Supervised employment providing opportunities in accounting or a related field: Develop desirable work habits, become a productive, responsible individual, and extend education experience with on the job training. Course study under this section may be repeated three times for a maximum of 16 units for occupational or a combination of general and occupational work experience education (including Regular and Alternate Plan and	M18



	CO	URSE CHANGES	
DEPT/NO.	CHANGE COURSE FROM:	CHANGE COURSE TO:	EFF TERM
CIS 20	Prerequisite(s): None Recommended Preparation: CIS 3, 6, 12, or 26	Prerequisite(s): CIS 6, 25, or 36A Recommended Preparation: None	F17
COSM 225	Course Description: Intermediate level facial and skin care: Disinfection sanitation, public health, safety precautions, tools and equipment, skin care cosmetics, draping and client protection, skin analysis, terminology and definitions, skin cleansing, massage, plain facials, eyebrow arching, packs and masks, daytime make-up, lash and brow tinting, hair removal, false lashes, evening and corrective make-up, electrical facials.	Course Description: Intermediate level facial and skin care: Disinfection sanitation; public health; safety precautions; tools and equipment; skin care cosmetics; skin analysis; terminology and definitions; eyebrow wax; packs and masks; false lashes; evening make-up; electrical facials.	S18
CULIN 203	 Prerequisite(s): CULIN 204, 215, 216, 219 Recommended Preparation: ESL 203A or 208A or ENGL 268A Course Description: Fundamental theories, techniques, processes and methods in baking and pastry production: Basic principles, including history of the industry, identification of equipment and ingredients, weights and measurements, safety and sanitation, basic formulas and production. 	Prerequisite(s): None Recommended Preparation: Food Handler's Card ESOL 527A Course Description: Introduction to baking theory and practice: Organization of work and production; classical to modern techniques for cakes, pies, tarts, scones, and cookie making methods. T.B clearance required.	M18



	С	OURSE CHANGES	
	CHANCE COURCE FROM		
DEPT/NO.	CHANGE COURSE FROM:	CHANGE COURSE TO:	EFF IEKM
CULIN	Proroquicita(s).	Proroquisita(s).	
204	CULIN 202 215 216 210	None	
204	CULIN 203, 213, 210, 219	INOTIE	
	Recommended Preparation:	Recommended Preparation:	
	ESL 203A or 208A or ENGL 268A	ENGL 1A or ESOL 52A: CULIN 215	
		,	
	Course Description:	Course Description:	M18
	Introduction to baking theory and	Introduction to baking theory and practice:	
	practice: Organization of work and	Organization of work and production: classical to	
	production; classical to modern	modern techniques for cakes, pies, tarts, scones, and	
	techniques for cakes, pies, tarts and	cookie making methods. T.B clearance required.	
	cookie making methods.		
	6		
CULIN	Corequisite(s):	Corequisite(s):	
212	CULIN 214, 215, 216, 217, 218, 219	None	
	Recommended Preparation:	Recommended Preparation:	M18
	None	Food Handler's Card	
		ENGL 1A or ESOL 52A	
CULIN	Corequisite(s):	Corequisite(s):	
214	CULIN 212, 215, 216, 217, 218, 219	None	
			N/10
	Recommended Preparation:	Recommended Preparation:	IVI10
	None	ENGL 1A or ESOL 52A	
CULIN	Corequisite(s):	Corequisite(s):	
215	CULIN 212, 214, 216, 217, 218, 219	None	M18
CULIN	Corequisite(s):	Corequisite(s):	
216	CULIN 212, 214, 215, 217, 218, 219	None	M18
			ļ
CULIN	Corequisite(s):	Corequisite(s):	
217	CULIN 212, 214, 215, 216, 218, 219	None	
			M18
	Recommended Preparation:	Recommended Preparation:	
	None	CULIN 215	



CO	IDCE	CHANCES	
UU	UNSE	CHANGES	

		Ι	1
DEPT/NO.	CHANGE COURSE FROM:	CHANGE COURSE TO:	EFF TERM
CULIN 218	Corequisite(s): CULIN 212, 214, 215, 216, 217, 219	Corequisite(s): None	
	Recommended Preparation: None	Recommended Preparation: ENGL 1A or ESOL 52A	M18
	Introduction to the tools and products of food production: Storage, and handling and processing of food.	Development and standardization of food production: Techniques in relation to planning and quality. T.B clearance required.	
CULIN 219	Corequisite(s): CULIN 212, 214, 215, 216, 217, 218	Corequisite(s): None	M18
E/ET 203	Recommended Preparation: E/ET 204	Recommended Preparation: None	S18
E/ET 207B	Recommended Preparation: E/ET 217 or 218	Recommended Preparation: E/ET 207A or 217	M18
E/ET 218	Prerequisite(s): None Recommended Preparation: E/ET 203	Prerequisite(s): E/ET 203 Recommended Preparation: E/ET 217	M18
ENGIN 35	Course Description: Vectorial treatment of principles of the static of particles and rigid bodies: Applications to problem of two- dimensional and three-dimensional systems; centroids and moments of inertia, structures, friction, and principles of virtual work.	Course Description: Vectorial treatment of principles of the equilibrium of particles and rigid bodies: Properties of forces, moments, couples and resultants; two- and three-dimensional force systems acting on engineering structures in equilibrium; analysis of truss, and beams; distributed forces, shear and bending moment diagrams, center of gravity, centroids, friction, and area and mass moments of inertia.	S18



DEPT/NO.	CHANGE COURSE FROM:	CHANGE COURSE TO:	EFF TERM
ECT 11	Course Description: Introduction to fundamentals of electricity and electronics as applied to HVAC&R operations: Ohm's law, power and electrical instruments, basic electrical AC and DC circuits, electrical and mechanical devices, and electrical and electronic controls.	Course Description: Introduction to fundamentals of electricity and electronics as applied to HVAC&R operations: Basic theory; tools and instrumentation; basic electrical AC and DC circuits; electrical and mechanical devices; and electrical, electronic and pneumatic controls.	S18
ECT 17	Course Description: Troubleshooting heating and air conditioning equipment: Components and accessories and their relation to the functions of residential and light commercial heating and air conditioning; practical instruction on electrical diagrams, sequence of operation, service diagnosis procedures, and maintenance; special emphasis on safety procedures.	Course Description: Troubleshooting residential and light commercial heating and air conditioning equipment: Controls and devices, electrical diagrams, sequence of operation, service diagnosis procedures, maintenance and repair and special emphasis on different types of ignition systems and safety.	M18
ECT 18	Prerequisite(s):NoneRecommended Preparation:ECT 16Course Description:Introduction to practical applications ofresidential and light commercial HVACsystems: Proper procedures for sizingand installing electrical and mechanicaldevices, HVAC equipment, Title 24requirements, ventilation, filtration, fluepipes, (flex, square and rigid ductpipes).	 Prerequisite(s): ECT 16 Recommended Preparation: None Course Description: Introduction to practical applications on residential and light commercial HVAC systems: Proper procedures for sizing and installing electrical and mechanical devices, HVAC equipment, Title 24 requirements, ventilation, filtration, flue pipes, (flex, square and rigid duct pipes). 	M18



DEPT/NO.	CHANGE COURSE FROM:	CHANGE COURSE TO:	EFF TERM
ECT 19	Course Description: Analysis of the physical properties of air in Refrigeration and Air Conditioning; Use of proper analytical instruments and manual load calculation and software for calculating cooling and heating loads.	Course Description: Analysis of physical properties of air in refrigeration and air conditioning; Use of proper analytical instruments, manual load calculation and software for calculating cooling and heating loads.	M18
ECT 22	Prerequisite(s):NoneRecommended Preparation:ECT 16Course Description:Introduction to the physical properties,interactive components, and methodsfor operating and controllingcommercial HVAC systems:Thermodynamic principles of pressure,specific heat, specific volume, densityand enthalpy; hydronic systemsincluding boilers, chillers, coolingtowers, water pumps, ventilation,filtration, air distribution, controls andinstruments.	 Prerequisite(s): ECT 16 or Students who have been working in the field for more than 2 years Recommended Preparation: None Course Description: Introduction to physical properties, interactive components, and methods for operating and controlling commercial HVAC systems: Thermodynamic principles of pressure, specific heat, specific volume, density and enthalpy; hydronic systems including boilers, chillers, cooling towers, water pumps; ventilation, filtration, air distribution; controls and instruments. 	M18
ECT 35	Course Description: Introduction to control system integration practices: Common open protocols such as BACNET, Modbus, Lonworks. Use of integration platforms such as Tridium Niagara, FieldBus device translators, and wireless protocol integration. Review of whole building system integration strategies.	Course Description: Introduction to control system integration practices: Common open protocols such as BACNET, Modbus, Lonworks; use of wireless protocol integration platforms such as Tridium Niagara and FieldBus, and review of whole building system integration strategies.	M18



DEPT/NO.	CHANGE COURSE FROM:	CHANGE COURSE TO:	EFF TERM
ECT 40	Course Description:	Course Description:	
	The installation and use of common	Introduction to global and local communication	
	digital control system networks is	networks: Standard protocols such as, BACNet, MS/TP,	
	presented: Practices of the instillation of	ARCNET, LONWORKS, and Ethernet will be discussed	
	some of the standard such as, MS/TP,	and the benefits of each type of network and diagnosis	
	ARCNET, LONWORKS, Ethernet	of common network problems.	M18
	networks, etc. will be discussed. This		
	will also include discussion of the		
	benefits of each type of network and		
	diagnosis of common network		
	problems.		
ECT 214	Recommended Preparation:	Recommended Preparation:	010
	MATH 201 or 210D or 200B	MATH 201 or 210D	518
GRART	Grading:	Grading:	
113	GR	GR or P/NP	
	Prerequisite(s) or Corequisite(s):	Corequisite(s):	S18
	GRAR1 131 or 132	GRARI 32	
	Recommended Preparation:	Recommended Preparation:	
	GRART 230	None	
GRART	Units:	Units:	
200	1-2	1-5	
	Harra	II	
		Hours:	
	3.00-6.00 Lab	3.00-15.00 Lab	
	Prerequisite(s):	Prerequisite(s):	M10
	GRART 132	None	MI8
	Course Description	Course Description:	
	Open laboratory for working on	Course Description:	
	colorted projector Provides apportunities	open laboratory, upgrading of specific graphic art skills	
	for dovelopment of advanced and/ar	and selected graphic art projects.	
	individual skills in graphic arts		
	murviuuai skins in graphic arts.		



	CO	URSE CHANGES	
DEPT/NO	CHANCE COURSE FROM	CHANCE COURSE TO:	FFF TFRM
JOURN 18A	Grading: GR Prerequisite(s): JOURN 21 Recommended Preparation: None	Grading: GR or P/NP Prerequisite(s): None Recommended Preparation JOURN 21	S18
MACH 205	Course Description: Interpretation of engineering drawings and specifications for machinists, welders, and industrial maintenance technicians: Explanation of the rules, symbols, and relationships covered in blueprints, assembly drawings and weldments. Emphasis on ANSI/ASME Y 14.5 Geometric Dimensioning and Tolerancing (GD&T) Standards and use of Coordinate Measuring Machine (CMM) for inspection of GD&T specifications.	Course Description: Interpretation of engineering drawings and specifications for machinists, welders, and industrial maintenance technicians: Explanation of rules, symbols, and relationships in blueprints, assembly drawings and weldments; ANSI/ASME Y 14.5 Geometric Dimensioning and Tolerancing (GD&T) Standards, use of Coordinate Measuring Machine (CMM) for inspection of GD&T specifications.	M18
MACH 206	TOPCODE: 0956.30	TOPCODE: 0945.00	S18
MACH 210	Credit by Exam: None	Credit by Exam: Eligible	S18
MATH 210A	Prerequisite(s): MATH 225 or 250 or 251A-D or placement through multiple-measures assessment process. Course Description: Elementary Algebra Lab A: Real number properties, the four basic operations with integers and rational numbers, solutions of linear equations.	 Prerequisite(s): MATH 225 or 250 or 253 or placement through multiple- measures assessment process. Course Description: Elementary Algebra Lab A: Real number properties, four basic operations with integers and rational numbers, solutions of linear equations. Not open for credit to students who have completed or are currently enrolled in MATH 201 Sequentially aligned to MATH 210 A, 210B, 210C, and 210D 	M18



CO	IIRSE	CHANCES
$\mathcal{C}\mathcal{O}$	UNDL	

DEPT/NO.	CHANGE COURSE FROM:	CHANGE COURSE TO:	EFF TERM
MATH 210B	Course Description: Elementary Algebra Lab B: Applications utilizing first-degree equations, the four basic operations with polynomials, integral exponents, factoring.	Course Description: Elementary Algebra Lab B: Applications utilizing first- degree equations, the four basic operations with polynomials, integral exponents, factoring.	M18
МАТН	Course Description:	Course Description:	
210C	Elementary Algebra Lab C: Algebraic fractions, graphs of linear equations, solutions of linear systems.	Continuation of MATH 210B: Polynomials. Properties of exponents, scientific notation, 4 basic operations with polynomials, multivariable polynomials, factoring (trinomials, perfect square trinomials, difference of squares, sum and difference of cubes), solving polynomial equations by factoring. Not open for credit to students who have completed or are currently enrolled in MATH 201. Sequentially aligned to MATH 210 A, 210B, 210C, and 210D	M18
MATH	Course Description:	Course Description:	
210D	Elementary Algebra Lab D: Solutions of first-degree inequalities, graphs of linear inequalities in two variables, radical expressions, solutions to quadratic equations.	Continuation of MATH 210C: Rational Functions. Four basic operations with rational expressions, complex rational expressions, solving rational equations and applications. Not open for credit to students who have completed or are currently enrolled in MATH 201. Sequentially aligned to MATH 210 A, 210B, 210C, and 210D	M18
MATH	Course Description:	Course Description:	
211A	Intermediate Algebra Lab A: Real number properties and operations, absolute value equations, solutions and graphs of linear equations in one and two variables, various equations of lines.	Intermediate Algebra Lab: Introduction to functions, domain and range, graphs of functions, operations with functions, formulas, applications of functions, variation, systems of equations in two variables, solving systems by substitution and elimination, applications involving systems of two equations, systems of equations in three variables. Not open for credit to students who have completed or are currently enrolled in MATH 203. Sequentially aligned to MATH 211 A, 211B, 211C, and 211D	M18



DEPT/NO.	CHANGE COURSE FROM:	CHANGE COURSE TO:	EFF TERM
MATH 211B	Course Description: Intermediate Algebra Lab B: Polynomial operations and advanced factoring, rational expressions and equations, exponents and radicals, complex numbers.	Course Description: Continuation of MATH 211A: Solving inequalities and finding their domain, intersections, unions, compound inequalities, absolute-value equations and inequalities, inequalities in two variables, radical expressions and functions, rational numbers as exponents, operations involving radical expressions, solving radical equations, distance and midpoint formulas and other applications, complex numbers. Not open for credit for students who have completed or are currently enrolled MATH 203. Sequentially aligned to MATH 211 A, 211B, 211C, and 211D	M18
MATH 211C	Course Description: Intermediate Algebra Lab C: Polynomial operations and advanced factoring, rational expressions and equations, exponents and radicals, complex numbers.	Course Description: Continuation of MATH 211B: Solving quadratic equations, using the quadratic formula, studying solutions of quadratic equations, equations reducible to quadratic, quadratic functions and their graphs, applications of quadratic functions and equations, polynomial and rational inequalities. Not open for credit for students who have completed or are currently enrolled MATH 203. Sequentially aligned to MATH 211 A, 211B, 211C, and 211D	M18
MATH 211D	Course Description: Intermediate Algebra Lab D: Polynomial operations and advanced factoring, rational expressions and equations, exponents and radicals, complex numbers.	Course Description: Continuation of MATH 211C: Composite and inverse functions, exponential functions, logarithmic functions, properties of logarithmic functions, common and natural logarithms, solving exponential and logarithmic equations, applications of exponential and logarithmic functions Not open for credit for students who have completed or are currently enrolled MATH 203 or 230. Sequentially aligned to MATH 211 A, 211B, 211C, and 211D	M18



COURSE CHANGES					
DEPT/NO. CHANGE COURSE FROM: CHANGE COURSE TO: EI					
MEDIA 104	Recommended Preparation: MEDIA 115 Course Description: Introduction to single camera digital video production techniques and terms: Camerawork; audio; scriptwriting; lighting; graphics; editing skills; producing and directing video programs; creative and safe operation of digital video equipment.	Recommended Preparation: None Course Description: Introduction to single camera digital video production techniques and terms: Camerawork; audio; scriptwriting; lighting; graphics; basic editing skills; producing and directing video programs; creative and safe operation of digital video equipment.	S18		
MEDIA 108	Credit by Exam: None	Credit by Exam: Eligible	S18		
M/LAT 30B	Course Description: Critical examination of cinema from throughout Latin America and Spain that relate to Latino cultural experiences, and especially those films that educate viewers about Latino encounters with majority and minority cultures within Latin America.	Course Description: Critical examination of cinema from throughout Latin America and Spain that relate to Latino cultural experiences: Emphasis on those films that educate viewers about Latino encounters with majority and minority cultures within Latin America.	S18		
POSCI 6	Grading: GR	Grading: GR or P/NP	S18		
SPAN 1A	Credit by Exam: Eligible	Credit by Exam: None	M18		
SPAN 1B	Credit by Exam: Eligible	Credit by Exam: None	M18		
SPAN 22A	Prerequisite(s): SPAN 1B Course Description: Elementary and intermediate Spanish for students whose native language is	Prerequisite(s): Spanish native speaker proficiency or the equivalent intermediate level	S18		



Spanish. Critical reading and	Course Description:	
discussion of selected readings in	Elementary and intermediate Spanish for students	
Spanish with emphasis on reading	whose native language is Spanish: Critical reading and	
development, orthography, grammar,	discussion of selected readings in Spanish with	
lexical expansion and composition.	emphasis on reading development, spelling	
	(orthography), grammar, lexical expansion, and	
	composition.	



COURSE CORRECTIONS				
DEDT/NO	CHANCE COURCE FROM			
DEP1/NO.	CHANGE COURSE FROM:	CHANGE COURSE TO:		
BUS 456C	Course Notes:	Course Notes:		
	Also offered as COPED 456A	None		
	Top Code:	Top Code:		
	0502.00	0504.00		
BUS 456D	Course Notes:	Course Notes:		
	Also offered as COPED 456D	None		
	Top Code:	Top Code:		
	0506.00	0505.00		
BUS 456J	Course Notes:	Course Notes:		
	Also offered as COPED 456J	None		
	Top Code:	Top Code:		
	0506 30	0509.00		
AFRAM 32	Missing	African American History 1945 to the Present		
		3-4 units 3-4 hours lecture (CR)		
		Prerequisite(s): Oral fluency in at least one		
		Acceptable for credit: CSU/UC		
		Survey of the experience of African American		
		people in the United States from 1945 to the		
		present: Emphasis on the Civil Rights movement		
		and other contemporary issues.		
		2203.00		
ESL 52A	Prerequisite(s):	Prerequisite(s):		
	ESL 233B or placement by Peralta	ESL 223B or placement by Peralta Multiple		
	Multiple Measures Assessment	Measures Assessment		
MEDIA 190	Course Notes	Course Notes		
WEDIA 100	None	Not open for credit to students who have		
	ivone	completed or are currently enrolled in PHOTO		
		180		



COURSE CORRECTIONS			
DEPT/NO.	CHANGE COURSE FROM:	CHANGE COURSE TO:	
WELD	Course Title:	Course Title:	
203A	Beginning Gas Tungsten Arc Welding	Beginning Gas Tungsten Arc Welding (TIG)	
	(T.I.G.)		
WELD 203B	Course Title:	Course Title:	
	Intermediate Gas Tungsten Arc Welding	Intermediate Gas Tungsten Arc Welding (TIG)	
	(T.I.G.)		



COURSE DEACTIVATIONS		
DEPT/NO.	COURSE TITLE	EFF TERM
ARCH 110	Introduction to 3D Modeling and Rendering	M18
BUS 40A	Introduction to Microsoft Access for Business Applications	M18
CIS 40	Database Management	M18
COPED 456C	Occ. Work experience in banking and finance	M18
COPED 456H	Occ. Work experience in labor studies	M18
COPED 466H	Occ. Work experience in construction management	M18
COPED 466N	Occ. Work experience in wood technology	M18
COPED 468A	Occ. Work experience in photography	M18
COPED 472B	Occ. Work experience in culinary arts/baking	M18
COPED 472C	Occ. Work experience in culinary arts/cooking	M18
CULIN 222	Banquet & Institutional Serving & Cooking Techniques	M18



C-ID COURSES: ACTIVE (AS OF 1/22/18)			
COURSES	C-ID DESCRIPTORS		
AFRAM 35: Women of Color	SJS 120		
ANTHR 1: Introduction to Physical Anthropology	ANTH 110		
ANTHR 1L: Physical Anthropology Lab	ANTH 115L		
ANTHR 2: Introduction to Archaeology and Prehistory	ANTH 150		
ANTHR 3: Introduction to Social and Cultural Anthropology	ANTH 120		
ART 2: History of Western Art: Prehistoric Through the Middle Ages	ARTH 110		
ART 3: History of Western Art: Renaissance to Contemporary Art	ARTH 120		
ART 4: History of Modern Art (1800 to Present)	ARTH 150		
ART 5: History of Asian Art (Past to Present)	ARTH 130		
ART 20: Beginning Drawing and Composition	ARTS 110		
ART 22: Intermediate Drawing and Composition	ARTS 205		
ART 40: Color Dynamics: The Interaction of Color	ARTS 270		
ART 46: 2-D Visual Design	ARTS 100		
ART 47: 3-D Visual Design	ARTS 101		
ART 50: Beginning Painting	ARTS 210		
ART 137: Beginning Figure Drawing and Composition	ARTS 200		
ASAME 35: Women of Color	SJS 120		
BIOL 1A: General Biology	BIOL 190		
BIOL 1B: General Biology	BIOL 140		
BIOL 1A +BIOL 1B: General Biology	BIOL 135S		
BIOL 2: Human Anatomy	BIOL 110B		
BIOL 4: Human Physiology	BIOL 120B		
BIOL 20A+20B: Human Anatomy and Physiology	BIOL 115S		
BIOL 27 (same as PSYCH 12): Human Sexuality	PSY 130		
BIOL 72A + 72D: Biotech Instrumentation: Good Manufacturing Practices and	BIOT 220 X		
Safe Chemical Handling + Biotech Instrumentation: Protein Purification and			
Quality Control			
BIOL 73: Cell Culture Principles and Techniques	BIOT 230 X		
BIOL 77: Business and Regulatory Practices in Biomanufacturing	BIOT 210 X		
BUS IA: Financial Accounting	ACCT 110		
BUS 1B: Managerial Accounting	ACCT 120		
BUS 2: Introduction to Business Law	BUS 125		
SUE 10: Introduction to Business			
CHEM IA: General Chemistry	CHEM IIU		



C-ID COURSES: ACTIVE (AS OF 1/22/18)			
COURSES	C-ID DESCRIPTORS		
CHEM 1A+1B: General Chemistry	CHEM 120S		
CHEM 12A: Organic Chemistry	CHEM 150		
CHEM 12A+12B: Organic Chemistry	CHEM 160S		
CHEM 25: The Chemistry of Energy and Environmental Issues	CHEM 100		
CHEM 30A: Introductory General Chemistry	CHEM 101		
CHEM 30B: Introductory Organic and Biochemistry	CHEM 102		
COMM 2A: The Fundamentals of Oral Interpretation of Literature	COMM 170		
COMM 19 (same as JOURN 62): Survey of Mass Media	JOUR 100		
COMM 20: Interpersonal Communication	COMM 130		
COMM 44: Argumentation	COMM 120		
COMM 45: Public Speaking	COMM 110		
CIS 1: Introduction to Computer Information Systems	BUS 140 and ITIS 120		
CIS 61: Structure and Interpretation of Computer Programs	COMP 112		
CIS 62: Introduction to Systems Analysis and Design	ITIS 140		
ECON 1: Principles of Economics (Macro-Economics)	ECON 202		
ECON 2: Principles of Economics (Micro-Economics)	ECON 201		
ENGL 1A: Composition and Reading	ENGL 100		
ENGL 1B: Composition and Reading	ENGL 120		
ENGL 5: Critical Thinking in Reading	ENGL 105		
ENGL 10A: Creative Writing	ENGL 200		
ENGL 30A: Introduction to American Literature	ENGL 130		
ENGL 30B: Introduction to American Literature	ENGL 135		
GEOG 1: Physical Geography	GEOG 110		
GEOG 1L: Physical Geography Laboratory	GEOG 111		
GEOG 2: Cultural Geography	GEOG 120		
GEOG 3: World Regional Geography	GEOG 125		
HIST 2A: History of European Civilization	HIST 170		
HIST 2B: History of European Civilization	HIST 180		
HIST 3A: World History to 1500	HIST 150		
HIST 3B: Modern World History: 1500 - Present	HIST 160		
HIST 7A: History of the United States to 1877	HIST 130		
HIST 7B: History of the United States Since 1865	HIST 140		
HUMAN 30A: Human Values/Ethics	PHIL 120		



C-ID COURSES: ACTIVE (AS OF 1/22/18)			
COURSES	C-ID DESCRIPTORS		
JOURN 18A: Newspaper Production I	JOUR 130		
JOURN 18B: Newspaper Production II	JOUR 131		
JOURN 21: Newswriting	JOUR 110		
JOURN 62 (same as COMM 19): Survey of Mass Media	JOUR 100		
KIN 150: Introduction to Kinesiology	KIN 100		
MATH 3A: Calculus I	MATH 210		
MATH 3B: Calculus II	MATH 220		
MATH 3A+3B: Calculus I + II	MATH 900S		
MATH 3C: Calculus III	MATH 230		
MATH 3E: Linear Algebra	MATH 250		
MATH 3F: Differential Equations	MATH 240		
MATH 11: Discrete Mathematics	MATH 160		
MATH 13: Introduction to Statistics	MATH 110		
MATH 16A: Calculus for Business and the Life and Social Sciences	MATH 140		
M/LAT 35: Women of Color	SJS 120		
MUSIC 100: Music Fundamentals and Culture	MUS 110		
MUSIC 101: Music Theory and Culture I	MUS 120		
MUSIC 102: Music Theory and Culture II	MUS 130		
MUSIC 103: Music Theory and Culture III	MUS 140		
MUSIC 104: Music Theory and Culture IV	MUS 150		
MUSIC	MUS 160		
105: Classic Guitar I			
106: Classic Guitar II			
107: Classic Guitar III			
108: Classic Guitar IV			
109: Beginning Winds I			
110: Beginning Winds II			
111: Beginning Winds III			
112: Beginning Winds IV			
117: Voice I			
118: Voice II			
119: Voice III			
120: Voice IV			
150: Applied Music			



C-ID COURSES: ACTIVE (AS OF 1/22/18)			
COURSES	C-ID DESCRIPTORS		
MUSIC 121: Music Skills I	MUS 125		
MUSIC 122: Music Skills II	MUS 135		
MUSIC 123: Music Skills III	MUS 145		
MUSIC 124: Music Skills IV	MUS 155		
MUSIC	MUS 180		
125: Chorus			
126: Jazz Orchestra			
127: Jazz Combos			
128: Choral Repertoire			
129: Jazz Orchestra Repertoire			
142: Instrumental Ensemble			
143: String Ensemble			
144: Intermediate Jazz Combos			
145: Advanced Jazz Combos			
146: Advanced Choral Repertoire			
NATAM 35: Women of Color	SJS 120		
PHIL 1: Introduction to Philosophy	PHIL 100		
PHIL 10: Logic	PHIL 110		
PHIL 20A: History of Ancient Greek Philosophy	PHIL 130		
PHIL 20B: History of Modern European Philosophy	PHIL 140		
PHOTO 20: Photojournalism I	JOURN 160		
PHYS 3A: General Physics	PHYS 105		
PHYS 3B: General Physics	PHYS 110		
PHYS 3A+3B: General Physics	PHYS 100S		
PHYS 4A: General Physics with Calculus	PHYS 205		
PHYS 4B: General Physics with Calculus	PHYS 210		
PHYS 4C: General Physics with Calculus	PHYS 215		
PHYS 4A+4B+4C: General Physics with Calculus	PHYS 200S		
POSCI 1: Government and Politics in the United States	POLS 110		
POSCI 2: Comparative Government	POLS 130		
POSCI 3: International Relations	POLS 140		
POSCI 4: Political Theory	POLS 120		
PSYCH 1A: Introduction to General Psychology	PSY 110		
PSYCH 6: Social Psychology	PSY 170		
PSYCH 12 (same as BIOL 27): Human Sexuality	PSY 130		



C-ID COURSES			
COURSES	C-ID DESCRIPTORS		
PSYCH 21: Lifespan Human Development	PSY 180		
PSYCH 24: Abnormal Psychology	PSY 120		
PSYCH 28: Introduction to Research Methods in Psychology	PSY 200		
SOC 1: Introduction to Sociology	SOCI 110		
SOC 2: Social Problems	SOCI 115		
SOC 5: Minority Groups	SOCI 150		
SOC 13: Sociology of the Family	SOCI 130		
SOC 120: Introduction to Research Methods	SOCI 120		
THART 2: Introduction to the Theatre Arts	THTR 111		
THART 20: Script Analysis	THTR 114		
THART 21: Acting I	THTR 151		
THART 22: Acting II	THTR 152		
THART 31: Rehearsal and Production I	THTR 191		
THART 40: Stagecraft	THTR 171		
THART 41: Introduction to Stage Lighting	THTR 173		



Computer Information Systems (CIS)

Database Management with SQL Certificate of Achievement (CA CIS)

The certificate in Database Management with SQL prepares students for careers as Database Administrators, or as software developers with skills in database programming. The program provides the analytical, methodological, and language skills required within the computer industry, and serves as a partial foundation for continued education at fouryear institutions. It provides a "merit badge" certification of a skill set needed in a vital career field. See a counselor for more information.

Career Opportunities in:

Virtually every computer programming shop requires database expertise. This Certificate provides a highly desirable skill for the computer programmer, or can be the basis for employment as Database Administrator (DBA).

Core Courses (13 units):			Units	
CIS	6	Introduction to Computer Programming		5
		or		
CIS	61	Structure and Interpretation of Computer Programs*		5
CIS	98	Database Programming with SQL		4
CIS	99	Database Administration with SQL		4
Choo	se one o	course from the following (3-4 units):		Units
BUS	1A	Financial Accounting		4
BUS	5	Human Relations in Business		3
BUS	20	General Accounting		3
BUS	24	Computerized Accounting Principles		3
CIS	20	Microcomputer Assembly Language		4
CIS	25	Object Oriented Programming Using C++		4
CIS	25B	C++ Programming Language II		4
CIS	27	Data Structures and Algorithms		4
CIS	36A	Java Programming Language I		4
CIS	36B	Java Programming Language II		4
CIS	62	Introduction to Systems Analysis and Design		3
CIS	81	Systems Analysis with UML		3
ECON	N 2	Principles of Economics (Micro-Economics)		3
MAT	Н	11 Discrete Mathematics		4
MAT	Н	13 Introduction to Statistics	4	

Total Major Units:



*If transferring, CIS 61 is the preferred course, consult with a counselor for more information.

Program Learning Outcomes for Database Management with SQL CA

Upon successful completion of this program, students will be able to:

- Develop Data Models such as Class Diagrams or Entity Relationship Diagrams (ERDs) from business processes to support database analysis and design
- Create and modify a database and its tables using Structured Query Language's Data Definition Language (SQL-DDL) features.
- Write programs that store and modify data in database tables using Structured Query Language's Data Manipulation Language (SQL-DML) features.



English

Associate in Arts Degree in English for Transfer (AA-T ENGL)

Laney College's English AA-T serves students with a wide variety of goals, including transfer to UC, CSU, or other fouryear institutions. Students will learn high-level skills in essay composition and literary analysis. Students who successfully complete the AA-T in English earn specific guarantees for transfer to the CSU system: admission to a CSU with junior status, and priority admission to their local CSU campus and to a program or major in English or a similar major. Students transferring to a CSU campus will be required to complete no more than 60 units after transfer to earn a bachelor's degree. Students are required to complete 60 semester units that are eligible for transfer to a California State University, including both of the following: (1) The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements and (2) 21 semester units with a grade of C or better in the major and an overall minimum grade point average (GPA) of at least 2.0 in all CSU transferable coursework. For more information on the AA-T degree, consult with a Laney College counselor.

Career Opportunities in:

English majors go into a variety fields including law, education, publishing, business, government, media relations, entertainment, counseling, journalism, technical writing, nonprofit development and fundraising, museums, and many more.

Core Courses	(7 units):	Units
ENGL 1B	Composition and Reading	4
ENGL 5	Critical Thinking in Reading and Writing	3
		4.
List A: Choose	e two of the following (6 units):	Units
ENGL 30A	Introduction to American Literature	3
ENGL 30B	Introduction to American Literature	3
List B: Choose	one of the following (3-4 units):	Units
ENGL 1A	Composition and Reading	4
ENGL 10A	Creative Writing	3
List C: Choose	one of the following (3 units):	Units
ENGL 10A	Creative Writing	3
ENGL 17A	Shakespeare	3
ENGL 17B	Shakespeare	3
ENGL 31	Survey of African-American Literature	3
ENGL 43	Introduction to the Study of Poetry	3
COMM	2A The Fundamentals of Oral Interpretation of Literature	3



JOURN21NewswritingM/LAT36Survey of Latina/o LiteratureTHART2Introduction to the Theatre Arts		3 3 3			
Total Major Units:					
IGETC or CSU GE-Breadth Education Pattern					

CSU Transferrable General Elective Courses to meet 60 units	
Total Units:	60

Program Learning Outcomes for English AA-T Degree

Upon successful completion of this program, students will be able to:

- Apply techniques of close textual reading, analysis, and interpretation of a variety of literary genres in their social, cultural, historical, and political contexts.
- Develop individual perspectives in essays that demonstrate critical thinking, logical organization, and command of voice and style.
- Conduct inquiry into historical and contemporary discourse, in order to respond to and influence contemporary discourse, one's self, and the world.



Social Sciences

Associate in Arts Degree in Global Studies for Transfer (AA-T SOCSC)

The Global Studies program emphasizes an interdisciplinary approach to the study of globalization and contemporary global issues. Students will study the interactions between states, societies, and cultures and will analyze the historical origins of these interactions. Through this program students will develop a deeper understanding of the interconnectedness of global and local events that shape the world we live in. Students will critically evaluate global changes and their consequences and will learn how to apply their knowledge to become agents of change. Courses throughout the program will highlight and feature topics related to social and environmental justice in particular, and more broadly to the advances and challenges posed by globalization.

The Associate in Arts in Global Studies for Transfer Degree is designed to prepare students for a seamless transfer with junior status and priority admission to a local CSU campus to a program or major in Global Studies or similar major for completion of a baccalaureate degree. Students are required to complete: A minimum of 18 semester units in the major with a grade of C or better while maintaining a minimum grade point average (GPA) of at least 2.0 in all CSU transferable coursework. The Associate Arts in Global Studies for Transfer Degree will also assist Global Studies major students to transfer to a U.C. or other baccalaureate institutions. Students are advised to consult with a counselor to verify transfer requirements.

Career Opportunities in:

Students completing the program will have career opportunities in the following fields: education (particularly with regards to international/global politics); working within government agencies and international organizations that focus on global issues; working within the non-profit sector or with a humanitarian organization; international law and business, advocacy and civic engagement work.

Core Courses (6 units):		Units
SOCSC 19	Introduction to Global Studies	3
SOCSC 20	Global Issues	3

List A: (min 15 units):

Select five courses (total) from at least four of the following areas:

Culture and Society (choose at least one from the following):		
ANTHR 3	Introduction to Social and Cultural Anthropology	3
HIST 3B Modern World History: 1500-Present		3
Geography	(choose at least one from the following):	Units
GEOG 1	Physical Geography	3



GEOG 2	Cultural Geography	3
GEOG 3	World Regional Geography	3
Economics	(choose at least one from the following):	Units
ECON 1	Principles of Economics (Macro-Economics)	3
ECON 2	Principles of Economics (Micro-Economics)	3
Politics (ch	oose at least one from the following):	Units
POSCI 2	Comparative Government	3
POSCI 3	International Relations	3
Total Major	Units:	21
IGETC or C	SU GE-Breadth Education Pattern	37-39
CSU Trans	ferrable General Elective Courses to meet 60 units	
Total Units	:	60

Program Learning Outcomes for Global Studies AA-T Degree

Upon successful completion of this program, students will be able to:

- Demonstrate knowledge of theories and concepts within global studies and the ability communicate them with accuracy, clarity and cultural sensitivity.
- Develop an interdisciplinary training and ability to synthesize information.
- Investigate and analyze global events.
- Design a plan for social activism and civic engagement regarding a global issue.



PROGRAM CHANGES				
CHANGE PROGRAM FROM		CHANGE PROGRAM TO		
NOTE: Highlighted courses have been removed from prog	ram	NOTE: Highlighted courses have been added to program		
ASAME		ASAME		
Asian and Asian-American Studies Associate of Arts:		Asian and Asian American Studies Associate of Arts:		
Select at least one course from both Group 1 and Group 2.		Core Curriculum (6 units):		
The remainder of the 18 units can be selected from either		ASAME 45A Asian-American History to 1945	3	
Group 1 or Group 2.		ASAME 35 Women of Color*	3	
		or		
Group 1 (min 3 units):		AFRAM 35 Women of Color	3	
ASAME 32 Asian-American Psychology	3	or		
ASAME 45A Asian-American History to 1945	3	M/LAT 35 Women of Color	3	
ASAME 45B Asian American History From 1945 to the	3	or		
Present		NATAM 35 Women of Color	3	
Group 2 (min 3 units):		Arts and Humanities (3 units):		
ASAME 21 Asian-American Communities	3	Choose one course from this list		
ASAME 26 Politics in Modern Asia	3	ASAME 10 Asian and Asian American Popular Culture	3	
ASAME 30 Asians and Asian-Americans Through Films	3	ASAME 30 Asians and Asian-Americans Through Films	3	
CHIN 1 Elementary Chinese (Mandarin)	3	0	0	
CHIN 2 Elementary Chinese (Mandarin)	3	Social Sciences and History (6 units):		
(Continuation)	U	Choose two course from this list		
CHIN 3 Immediate Chinese (Mandarin)	3	ASAME 2 Introduction to the Pacific Islander	3	
CHIN 4 Immediate Chinese (Mandarin)	3	Experience from 1850 to the Present	-	
(Continuation)	-	ASAME 21 Asian-American Communities	3	
JAPAN 50A Conversational Japanese and Culture	3	ASAME 32 Asian-American Psychology	3	
JAPAN 50B Conversational Japanese and Culture	3	ASAME 42 Southeast Asians in the United States	3	
		ASAME 45B Asian American History From 1945 to the	3	
		Present	-	
TOTAL MAJOR UNITS	18			
		Comparative Courses (3 units):		
		Choose one course from this list (ETHST I		
		recommended)		
		ETHST 1 Introduction to Ethnic Studies	3	
		ETHST 3 Kace, Gender and Sports	3	
		ETHST 12 Economics and Social Change: Racial	3	
		Conflict and Class in America		
		ETHST 13 Introduction to Community Based Research	3	
		ETHST 14 Community Building and Transformation in	3	
		Urban America		
		ETHST 30 Introduction to Race, Gender and Health	3	
		ETHST 50 Introduction to Race, Class and Schools	3	
		TOTAL MAJOR UNITS	18	



		* Students may substitute AFRAM 35 OR, M/LAT 35 OR	
		NATAM 35 for the requirement, but ASAME 35 is	
		preferred.	
PRO	GRAN	M CHANGES	
CHANGE PROGRAM FROM		CHANGE PROGRAM TO	
NOTE: Highlighted courses have been removed from prog	ram	NOTE: Highlighted courses have been added to program	L
CIS		CIS	
CIS-Computer Programming Associate of Sciences:		CIS-Computer Programming Associate of Sciences:	
Introduction to Computer Science (5 units):		Introduction to Computer Science (5 units):	
CIS 5 Introduction to Computer Science	5	CIS 5 Introduction to Computer Science	5
Introductory Programming (Choose one of the following)		Introductory Programming (Choose one of the	
(5 units):		following) (5 units):	
CIS 6 Introduction to Computer Programming	5	CIS 6 Introduction to Computer Programming	5
or		or	
CIS 61 Structure and Interpretation of Computer Programs		CIS 61 Structure and Interpretation of Computer	
	5	Programs	5
Programming Fundamentals (Choose one of the			
following) (4 units):		Programming Fundamentals (Choose one of the	
CIS 25 Object Oriented Programming Using C++		following) (4 units):	
or	4	CIS 25 Object Oriented Programming Using C++	
CIS 36A Java Programming Language I		or	4
	4	CIS 36A Java Programming Language I	
Advanced Programming (Choose one of the following) (4			4
units):		Advanced Programming (Choose one of the following)	
CIS 25B C++ Programming Language II		(4 units):	
or	4	CIS 20 Microcomputer Assembly Language	
CIS 36B Java Programming Language II		or	4
	4	CIS 25B C++ Programming Language II	
		or	4
		CIS 36B Java Programming Language II	
Electives (min 7 units):			4
BUS 1A Financial Accounting		Electives (min 7 units):	
BUS 1B Managerial Accounting	4	BUS 1A Financial Accounting	
BUS 5 Human Relations in Business	4	BUS 1B Managerial Accounting	4
BUS 20 General Accounting	3	BUS 5 Human Relations in Business	4
BUS 24 Computerized Accounting Principles	3	BUS 20 General Accounting	3
BUS 40A Introduction to Microsoft Access for Business	3	BUS 24 Computerized Accounting Principles	3
Applications	4	CIS 6 Introduction to Computer Programming	3
CIS 6 Introduction to Computer Programming		CIS 20 Microcomputer Assembly Language	5
CIS 25 Object Oriented Programming Using C++	5	CIS 25 Object Oriented Programming Using C++	4
CIS 25B C++ Programming Language II	4	CIS 25B C++ Programming Language II	4
CIS 27 Data Structures and Algorithms	4	CIS 27 Data Structures and Algorithms	4



CIS 36A Java Programming Language I	4	CIS 36A Java Programming Language I	4
	4	CIS 36B Java Programming Language II	4
CIS 36B Java Programming Language II	4	CIS 61 Structure and Interpretation of Computer	4
	5	Programs	5
CIS 61 Structure and Interpretation of Computer			
Programs	3	CIS 62 Introduction to Systems Analysis and Design	
ECON 2 Principles of Economics (Micro-Economics)		CIS 81 Systems Analysis with UML	3
MATH 3A Calculus I	5	CIS 98 Database Programming with SQL	3
	4		4
MATH 11 Discrete Mathematics		CIS 99 Database Administration with SQL	4
MATH 13 Introduction to Statistics	4	ECON 2 Principles of Economics (Micro-Economics)	
	4	MATH 3A Calculus I	3
TOTAL MAJOR UNITS		MATH 11 Discrete Mathematics	5
	25	MATH 13 Introduction to Statistics	4
			4
		TOTAL MAJOR UNITS	
			25
PRO	GRAN	M CHANGES	
CHANGE PROGRAM FROM		CHANGE PROGRAM TO	
NOTE: Highlighted courses have been removed from prog	ram	NOTE: Highlighted courses have been added to program	1
CIS		CIS	
Computer Programming with C++ Certificate of		Computer Programming with C++ Certificate of	
Achievement:		Achievement:	
Core Courses (13 units):		Core Courses (13 units):	
CIS 6 Introduction to Computer Programming	5	CIS 6 Introduction to Computer Programming	5
or		or	
CIS 61 Structure and Interpretation of Computer		CIS 61 Structure and Interpretation of Computer	5
Programs*	5	Programs*	
CIS 25 Object Oriented Programming Using C++		CIS 25 Object Oriented Programming Using C++	4
CIS 25B C++ Programming Language II	4	CIS 25B C++ Programming Language II	4
	4		
Choose one of the following (3-4 units):		Choose one of the following (3-4 units):	
BUS 1A Financial Accounting**	4	BUS 1A Financial Accounting**	4
BUS 5 Human Relations in Business	3	BUS 5 Human Relations in Business	3
BUS 20 General Accounting**	3	BUS 20 General Accounting**	3
BUS 24 Computerized Accounting Principles**	3	BUS 24 Computerized Accounting Principles**	3
BUS 40A Introduction to Microsoft Access for Business	4	CIS 20 Microcomputer Assembly Language	4
Applications		CIS 27 Data Structures and Algorithms	4
CIS 27 Data Structures and Algorithms	4	CIS 36A Java Programming Language I	4
CIS 36A Java Programming Language I	4	CIS 36B Java Programming Language II	4
CIS 36B Java Programming Language II	4	CIS 62 Introduction to Systems Analysis and Design	3
ECON 2 Principles of Economics (Micro-Economics)**	3	CIS 81 Systems Analysis with UML	3
MATH 11 Discrete Mathematics***	4	CIS 98 Database Programming with SQL	4
MATH 13 Introduction to Statistics***	4	CIS 99 Database Administration with SQL	4



TOTAL MAJOR UNITS *: Students planning to transfer to a Computer Science program, especially at UC Berkeley, should choose CIS 61 **: Finance courses mentioned ***: Mathematics courses mentioned above	16-17	 ECON 2 Principles of Economics (Micro-Economics)** MATH 11 Discrete Mathematics*** MATH 13 Introduction to Statistics*** TOTAL MAJOR UNITS *: Students planning to transfer to a Computer Science program, especially at UC Berkeley, should choose CIS 61 	3 4 4 16-17
PRO	GRAN	**: Finance courses mentioned ***: Mathematics courses mentioned above	
CHANGE PROGRAM FROM		CHANGE PROGRAM TO	
NOTE: Highlighted courses have been removed from prog	ram	NOTE: Highlighted courses have been added to program	
CIS Computer Programming with Java Certificate of Achievement:		CIS Computer Programming with Java Certificate of Achievement:	
Core Courses (13 units): CIS 6 Introduction to Computer Programming or CIS 61 Structure and Interpretation of Computer	5 5	Core Courses (13 units): CIS 6 Introduction to Computer Programming or CIS 61 Structure and Interpretation of Computer Programs*	5
CIS 364 Java Programming Language I		Programs [*] CIS 364 Java Programming Language I	5
CIS 36B Java Programming Language II	4	CIS 36B Java Programming Language II	4
Choose one of the following (3-4 units): BUS 1A Financial Accounting** BUS 5 Human Relations in Business BUS 20 General Accounting** BUS 24 Computerized Accounting Principles** BUS 40A Introduction to Microsoft Access for Business Applications CIS 25 Object Oriented Programming Using C++ CIS 25B C++ Programming Language II CIS 27 Data Structures and Algorithms ECON 2 Principles of Economics (Micro-Economics)** MATH 11 Discrete Mathematics*** MATH 13 Introduction to Statistics***	4 3 3 4 4 4 4 3 4 4 16-17	Choose one of the following (3-4 units):BUS 1AFinancial Accounting**BUS 5Human Relations in BusinessBUS 20General Accounting**BUS 24Computerized Accounting Principles**CIS 20Microcomputer Assembly LanguageCIS 25Object Oriented Programming Using C++CIS 25C++ Programming Language IICIS 27Data Structures and AlgorithmsCIS 62Introduction to Systems Analysis and DesignCIS 81Systems Analysis with UMLCIS 98Database Programming with SQLCIS 99Database Administration with SQLECON 2Principles of Economics (Micro-Economics)**MATH 11Discrete Mathematics***	4 3 3 4 4 4 4 3 4 3 4 3 4
*: Students planning to transfer to a Computer Science program, especially at UC Berkeley, should choose CIS 61 **: Finance courses mentioned		MATH 13 Introduction to Statistics*** TOTAL MAJOR UNITS	4 16-17



***: Mathematics courses mentioned above	*: Students planning to transfer to a Computer Science	
	program, especially at UC Berkeley, should choose CIS 61	
	**: Finance courses mentioned	
	***: Mathematics courses mentioned above	

PROGRAM CHANGES			
CHANGE PROGRAM FROM		CHANGE PROGRAM TO	
NOTE: Highlighted courses have been removed from prog	ram	NOTE: Highlighted courses have been added to program	
CIS Computer Systems Analysis Certificate of Achievement:		CIS Computer Systems Analysis Certificate of Achievement:	
Core Courses (11 units):			
CIS 6 Introduction to Computer Programming	5	Circ (Introduction to Computer Processing	
or CIS 61 Structure and Interpretation of Computer Brograms*		or CIS 61 Structure and Interpretation of Computer	5
CIS 62 Introduction to Systems Analysis and Design	5	Programs*	_
CIS 82 Introduction to Systems Analysis and Design	3	CIS 62 Introduction to Systems Analysis and Design	5
CIS 81 Systems Analysis with OML	3	CIS 81 Systems Analysis with UMI	3
Choose two of the following (7-8 unite):		CIS OF Systems Analysis with OWL	3
BNK/E 56 Bank Management**	2	Choose two of the following (7-8 units):	
BUS 14 Financial Accounting**	3	BNK/F 56 Bank Management**	2
BUS 1B Managerial Accounting**	4	BUS 1A Financial Accounting**	3
BUS 5 Human Relations in Business	4	BUS 1B Managerial Accounting**	4
BUS 10 Introduction to Business	3	BUS 5 Human Relations in Business	т 3
BUS 20 General Accounting**	3	BUS 10 Introduction to Business	3
BUS 24 Computerized Accounting Principles**	3	BUS 20 General Accounting**	3
BUS 40A Introduction to Microsoft Access for Business	0	BUS 24 Computerized Accounting Principles**	3
Applications	4	BUS 76 E-Commerce/Entrepreneurship	3
BUS 76 E-Commerce/Entrepreneurship	3	COMM 20 Interpersonal Communication Skills	3
COMM 20 Interpersonal Communication Skills	3	CIS 25 Object Oriented Programming Using C++	4
CIS 25 Object Oriented Programming Using C++	4	CIS 36A Java Programming Language I	4
CIS 36A Java Programming Language I	4	ECON 2 Principles of Economics (Micro-Economics)**	3
CIS 40 Database Management	4	ENGL 5 Critical Thinking in Reading and Writing	3
ECON 2 Principles of Economics (Micro-Economics)**	3	GRART 115 Web Site Design	3
ENGL 5 Critical Thinking in Reading and Writing	3	M/SVN 82 Essentials of Managerial Communications	3
GRART 115 Web Site Design	3	MATH 13 Introduction to Statistics***	4
M/SVN 82 Essentials of Managerial Communications	3	PHIL 10 Logic	3
MATH 13 Introduction to Statistics***	4		
PHIL 10 Logic	3	TOTAL MAJOR UNITS	18-19
TOTAL MAJOR UNITS	18-19	*: Students planning to transfer to a Computer Science program, especially at UC Berkeley, should choose CIS 61	
*: Students planning to transfer to a Computer Science		**: Finance courses mentioned	
program, especially at UC Berkeley, should choose CIS 61	1	***: Mathematics courses mentioned above	



**: Finance courses mentioned			
***: Mathematics courses mentioned above			
	GRAN	M CHANGES	
CHANGE PROGRAM FROM	ram	CHANGE PROGRAM IO	
FTHST		FTHST	
ETHIST Ethnic Studies Associate of Arts:		Ethnic Studies Associate of Arts:	
Lunite Studies Associate of Arts.		Linne Studies Associate of Arts.	
Group 1 Select two courses from the following (6-8 units):		Core Curriculum 1: Introduction to Ethnic Studies (3	
AFRAM 8 African American Politics		units):	
AFRAM 23 Perceptions of African American Women	3-4	ETHST 1 Introduction to Ethnic Studies	3
AFRAM 32 African American History: 1945 to the Present	3		
		Core Curriculum 2: Interaction of Race and Gender (3	
Group 2 Select two courses from the following (6 units):	3-4	units):	
M/LAT 12 United States Relations with Mexico and Latin		Choose one course from this list	
America		AFRAM 35 Women of Color	3
M/LAT 30A Survey of Latin-American Films	3	or	
M/LAT 30B Survey of Latin-American Films		ASAME 35 Women of Color	3
	3	or	
Group 3 Select two courses from the following (6 units):	3	M/LAT 35 Women of Color	3
ASAME 21 Asian-American Communities	3	or	
ASAME 30 Asians and Asian-Americans Through Films	3	NATAM 35 Women of Color	3
ASAME 32 Asian-American Psychology	3		
ASAME 45A Asian-American History to 1945	3	Comparative Courses (6 units):	
ASAME 45B Asian American History From 1945 to the		Choose two course from this list	
Present	3	ETHST 3 Race, Gender and Sports	3
		ETHST 12 Economics and Social Change: Racial	3
TOTAL MAJOR UNITS	18	Conflict and Class in America	
		ETHST 13 Introduction to Community Based Research	3
		<mark>in Urban America</mark>	
		ETHST 14 Community Building and Transformation in	3
		<mark>Urban America</mark>	
		ETHST 30 Introduction to Race, Gender and Health	3
		ETHST 50 Introduction to Race, Class and Schools	3
		Ethnic Studies Electives (6 units):	
		Solact two courses (not chosen from above) for a total of 6	
		units in the following disciplines: AFRAM ASAME	
		M/I AT NATAM	6
			6
		TOTAL MAJOR UNITS	18
PRO	GRAN	M CHANGES	



CHANGE PROGRAM FROM		CHANGE PROGRAM TO		
NOTE: Highlighted courses have been removed from prog	ram	NOTE: Highlighted courses have been added to program		
Science		Science		
Associate of Science:		Associate of Science:		
Select at least two courses from at least two of the		Select a minimum of 18 units from at least two		
following areas:		disciplines:		
Biology:		Biology:		
BIOL 1A General Biology	5	BIOL 1A General Biology	5	
BIOL 1B General Biology	5	BIOL 1B General Biology	5	
BIOL 2 Human Anatomy	5	BIOL 2 Human Anatomy	5	
BIOL 3 Microbiology	5	BIOL 3 Microbiology	5	
BIOL 4 Human Physiology	5	BIOL 4 Human Physiology	5	
BIOL 20A Human Anatomy and Physiology	5	BIOL 20A Human Anatomy and Physiology	5	
BIOL 20B Human Anatomy and Physiology	5	BIOL 20B Human Anatomy and Physiology	5	
Chemistry:		Chemistry:		
CHEM 1A General Chemistry	5	CHEM 1A General Chemistry	5	
CHEM 1B General Chemistry	5	CHEM 1B General Chemistry	5	
CHEM 30A Introductory General Chemistry	4	CHEM 30A Introductory General Chemistry	4	
		CHEM 30B Introductory Organic and Biochemistry	4	
		Mathematics:		
Mathematics:		MATH 3A Calculus I	5	
MATH 3A Calculus I	5	MATH 3B Calculus II	5	
MATH 3B Calculus II	5	MATH 13 Introduction to Statistics	4	
MATH 13 Introduction to Statistics	4			
		Physics:	5	
Physics:		PHYS 3A General Physics	5	
PHYS 3A General Physics	5	PHYS 3B General Physics	5	
PHYS 3B General Physics	5	PHYS 4A General Physics with Calculus	5	
PHYS 4A General Physics with Calculus	5	PHYS 4B General Physics with Calculus	5	
PHYS 4B General Physics with Calculus	5	PHYS 4C General Physics with Calculus		
PHYS 4C General Physics with Calculus	5			
		TOTAL MAJOR UNITS	18-20	
TOTAL MAJOR UNITS	18-20			



PROGRAM CORRECTIONS					
	PAGE #	CHANGE PROGRAM FROM:	UNITS	CHANGE PROGRAM TO:	UNITS
Multiple ADT Programs		IGTEC or CSU GE-Breadth		IGETC or CSU GE-Breadth	
		Education Pattern		Education Pattern	
Architecture CA	p.136	Third Semester (14 units):		Third Semester (14 units):	
		PHYS 4A General Physics	5	PHYS 4A General Physics with Calculus	5
Bookkeeping CA	p.166	First Semester (min 11 units):	3	First Semester (11 units):	
		BUS 20 General Accounting BUS 209 Fundamentals of Income	3	BUS 20 General Accounting BUS 209 Fundamentals of Income	3
		Tax BUS 43B Introduction to Microsoft	4	Tax BUS 43B Introduction to Microsoft	4
		Excel for Business Applications or BUS 42BA Introduction to	4	Excel for Business Applications or BUS 42BA Introduction to Microsoft	4
		Microsoft Excel for Business Applications	2	Excel for Business Applications and	2
		and BUS 43BB Introduction to Microsoft Excel for Business Applications	2	BUS 43BB Introduction to Microsoft Excel for Business Applications	2
	150				
Systems AS	p.173	BUS 207A Introduction to Business	3	BUS 207A Business English	3
Computer Systems Analysis CA	p.195	Core Requirements (11 units): CIS 6 Introduction to Computer Programming or	5	Core Requirements (11 units): CIS 6 Introduction to Computer Programming or	5
		CIS 61 Structure and Interpretation of Computer Programs	5	CIS 61 Structure and Interpretation of Computer Programs	5
		CIS 62 Introduction to Systems Analysis and Design	3 3	CIS 62 Introduction to Systems Analysis and Design	3 3
		CIS 81 Systems Analysis with UML CIS 36A Java Programming	4	CIS 81 Systems Analysis with UML	
		CIS 36B Java Programming Language II	4		



PROGRAM CORRECTIONS					
	PAGE #	CHANGE PROGRAM FROM:	UNITS	CHANGE PROGRAM TO:	UNITS
Electrical Technology CA	p.232	Title: Electrical Technology CA		Title: Electrical Technology CA	
Electrical Technology AS	p.233	Title: Electrical Technology AS		Title: Electrical Technology AS	
Building Automation Systems CA	p. 253	Program Description: The AS degree in Building Automation Systems prepares students to install, service, operate, maintain, and troubleshoot building automation systems (BAS) in commercial buildings, controlling Heating, Ventilation, and Air Conditioning (HVAC) Systems, energy management systems, as well as lighting and security systems. Students who complete this program can significantly impact building energy consumption. Graduates can seek employment as building automation technicians and control systems technicians with manufacturers, vendors, service companies, and large facilities, such as government and educational facilities, hospitals, and office buildings		Program Description: The Certificate in Building Automation Systems prepares students to install, service, operate, maintain, and troubleshoot building automation systems (BAS) in commercial buildings, controlling Heating, Ventilation, and Air Conditioning (HVAC) Systems, energy management systems, as well as lighting and security systems. Students who complete this program can significantly impact building energy consumption. Graduates can seek employment as building automation technicians and control systems technicians with manufacturers, vendors, service companies, and large facilities, such as government and educational facilities, hospitals, and office buildings.	
Laney Education/After- School Pathways (Leap) CP	p.296	Core Courses (12-14 units): ENGL 201A Preparation for Composition and Reading	4	Core Courses (12-14 units): ENGL 201A Preparation for Composition and Reading*	4
		or ENGL 201B Preparation for Composition and Reading	4	or ENGL 201B Preparation for Composition and Reading*	4
		HLTED 1 Exploring Health Issues or	3	HLTED 1 Exploring Health Issues or HLTED 20 Health and Wellness:	3
		HLTED 20Health and Wellness:Personal ChangeLRNRE 20Introduction to Youth	1 3	Personal Change LRNRE 20 Introduction to Youth Development	3
		Development	1	LRNRE 30 Introduction to Tutoring	1



		1			1
		LRNRE 30 Introduction to Tutoring		MATH 250 Arithmetic** or	3
				MATH 253 Pre-Algebra**	3
				* A more advance ENGL course may	
				be substituted for ENGL 201A or	
				**A more advance Math course may	
				be substituted for MATH 250 or 253	
		PROGRAM CORREC	TIONS		
	PAGE #	CHANGE PROGRAM FROM:	UNITS	CHANGE PROGRAM TO:	UNITS
Language Arts AA	p.297	Title:		Title:	
		Language Arts		Language Arts AA	
Legal and Community	p.300	Title:		Title:	
Interpreting AA		Legal Court Interpreter (Spanish		Legal and Community Interpreting	
		Language) CA		CA	
		Select one course from the		Select one course from the following	
		following (3-5 units):		(3-5 units):	
		ENGL 1A Composition and	4	ENGL 1A Composition and Reading	4
		POSCI 6 The U.S. Constitution and	3	Criminal Due Process	3
		Criminal Due Process		SPAN 22A Spanish for Bilingual	
		SPAN 22A Spanish for Bilingual	3	Speakers I	5
		Speakers I SPAN 22B Spanish for Bilingual	3	SPAN 228 Spanish for Bilingual	5
		Speakers II	0		0
Liberal Arts:	p.304	Title:		Title:	
Intersegmental General		Intersegmental General Education		Liberal Arts: Intersegmental General	
Education Transfer		Transfer Curriculum (IGETC)		Education Transfer Curriculum	
cumculum (robre) en					
Machine Technology CA	p.307	Third Semester (9 units):		Fourth Semester (8 units):	
		MACH 31 Advanced CNC and	4	MACH 31 Advanced CNC and	4
		MATH 220* Technical Math with	1	MATH 220* Technical Math with	1
		Trigonometry (Lab)		Trigonometry (Lab)	
		WELD 205 Introduction to	3	WELD 205 Introduction to Welding	3
		Welding			



PROGRAM CORRECTIONS						
	PAGE #	CHANGE PROGRAM FROM:	UNITS	CHANGE PROGRAM TO:	UNITS	
Machine Technology AS	p.308	Third Semester (9 units):		Fourth Semester (8 units):		
	piece	MACH 31 Advanced CNC and	4	MACH 31 Advanced CNC and	4	
		CAD/CAM Programming	_	CAD/CAM Programming	_	
		MATH 220* Technical Math with	1	MATH 220* Technical Math with	1	
		Trigonometry (Lab)		Trigonometry (Lab)		
		WELD 205 Introduction to	3	WELD 205 Introduction to Welding	3	
		Welding	-	8	-	
Associate of Arts Degree	p.334	Program Description:		Program Description:		
in Music for Transfer (AA-	1	The Associate in Arts Degree in		The Associate in Arts Degree in		
T)		Communication Studies for		Music for Transfer is designed to		
		Transfer is designed to prepare		prepare students for a seamless		
		students for a seamless transfer		transfer with junior status and		
		with junior status and priority		priority admission to their local CSU		
		admission to their local CSU		campus to a program or major in		
		campus to a program or major in		Music or similar major for		
		Communication Studies or similar		completion of a baccalaureate		
		major for completion of a		degree. Students are required to		
		baccalaureate degree. Students are		complete: * a minimum of 27		
		required to complete: * a minimum		semester units in the major with a		
		of 27 semester units in the major		grade of C or better while		
		with a grade of C or better while		maintaining a minimum grade point		
		maintaining a minimum grade		average (GPA) of at least 2.0 in all		
		point average (GPA) of at least 2.0		CSU transferable coursework. * 60		
		in all CSU transferable		semester CSU-transferable units		
		coursework. * 60 semester CSU-		using the California State University-		
		transferable units using the		General Education-Breadth pattern		
		California State University-General		(CSU-GE Breadth); OR the		
		Education-Breadth pattern (CSU-		Intersegmental General Education		
		GE Breadth); OR the		Transfer Curriculum (IGETC)		
		Intersegmental General Education		pattern. * No more than 60 semester		
		Transfer Curriculum (IGETC)		units are required. The Associate in		
		pattern. * No more than 60		Arts Degree in Music for Transfer		
		semester units are required. The		will also assist Music major students		
		Associate in Arts Degree in		to transfer to a U.C. or other		
		Communication Studies for		baccalaureate institutions. Students		
		Transfer will also assist		are advised to consult with a		
		to transfor to a U.C. or other		counselor to verify transfer		
		baccalaureate institutions Students are		requirements.		
		advised to consult with a counselor to				
		verify transfer requirements.				